

Developer Ecosystem Survey 2025

First Questions (employment, job role)

Logic: Show/hide trigger exists.

Which of the following best describes your employment and involvement in software development?*

- ☐ Employed full-time
- ☐ Employed part-time
- ☐ Self-employed or freelancer
- ☐ Founder or business owner in software or tech
- ☐ Working student
- ☐ Student
- ☐ Not currently employed, but with past experience in software development (e.g. unemployed, retired, or on leave)
- ☐ Learning or practicing software development as a hobby or career transition
- ☐ Not involved in software development or related fields
- ☐ Other, please specify: _____

Logic: Show/hide trigger exists. Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

Which of the following best describe your job role(s) regardless of your position level?*

- ☐ Developer / Programmer / Software Engineer
- ☐ DevOps Engineer / Infrastructure Developer
- ☐ DBA
- ☐ Architect

- ☐ Tester / QA Engineer
- ☐ Technical Writer
- ☐ Technical Support Specialist
- ☐ Data Analyst / Data Engineer / Data Scientist
- ☐ Developer Productivity / Developer Experience Engineer
- ☐ Team Lead
- ☐ Systems Analyst
- ☐ Business Analyst
- ☐ Product Manager / Marketing Manager
- ☐ Developer Advocate
- ☐ UX / UI Designer
- ☐ CIO / CEO / CTO
- ☐ Instructor / Teacher / Tutor
- ☐ Other, please specify:: _____ *

Logic: Hidden unless: #3 Question "Which of the following best describe your job role(s) regardless of your position level?" is one of the following answers ("Developer / Programmer / Software Engineer", "DevOps Engineer / Infrastructure Developer", "DBA", "Tester / QA Engineer", "Technical Writer", "Technical Support Specialist", "Data Analyst / Data Engineer / Data Scientist", "Developer Productivity / Developer Experience Engineer", "Systems Analyst", "Business Analyst", "Product Manager / Marketing Manager", "UX / UI Designer")

Which of the following best describes the level of your current position?*

- ☐ Trainee
- ☐ Junior
- ☐ Middle
- ☐ Senior
- ☐ Other, please specify:: _____ *

In which kinds of activities are you involved?*

- ☐ None

- ☐ Academic research
- ☐ Coding / Programming
- ☐ Code reviewing
- ☐ Testing
- ☐ System design
- ☐ Graphic design / Art
- ☐ Infrastructure development / DevOps
- ☐ System administration
- ☐ Deployment
- ☐ Business intelligence
- ☐ Data analysis
- ☐ Data engineering
- ☐ Machine learning
- ☐ AI engineering
- ☐ Teaching programming
- ☐ People management
- ☐ Product management
- ☐ Marketing
- ☐ Technical writing
- ☐ UX/UI design or research
- ☐ Other, please specify:: _____

Logic: Hidden unless: #3 Question "Which of the following best describe your job role(s) regardless of your position level?" is one of the following answers ("Data Analyst / Data Engineer / Data Scientist", "Business Analyst")

Which of the following best describe your job role?*

- ☐ Developer
- ☐ Data Analyst
- ☐ Data Engineer
- ☐ Data Scientist
- ☐ Machine Learning Engineer

☐ Business Analyst

☐ Other, please specify:: _____

Demographics

How many years of professional coding experience do you have?*

- ☐ Less than 1 year
- ☐ 1–2 years
- ☐ 3–5 years
- ☐ 6–10 years
- ☐ 11–15 years
- ☐ 16+ years
- ☐ I don't have professional coding experience

What is your age range?*

- ☐ 17 or younger
- ☐ 18–20
- ☐ 21–24
- ☐ 25–29
- ☐ 30–34
- ☐ 35–39
- ☐ 40–49
- ☐ 50–59
- ☐ 60 or older

Logic: Show/hide trigger exists.

In which country or region do you currently reside?*

- ☐ Afghanistan
- ☐ Albania
- ☐ Algeria
- ☐ American Samoa
- ☐ Andorra
- ☐ Angola
- ☐ Anguilla
- ☐ Antarctica
- ☐ Antigua and Barbuda
- ☐ Argentina
- ☐ Armenia
- ☐ Aruba
- ☐ Australia
- ☐ Austria
- ☐ Azerbaijan
- ☐ Bahamas
- ☐ Bahrain
- ☐ Bangladesh
- ☐ Barbados
- ☐ Belarus
- ☐ Belgium
- ☐ Belize
- ☐ Benin
- ☐ Bermuda
- ☐ Bhutan
- ☐ Bolivia
- ☐ Bosnia and Herzegovina
- ☐ Botswana
- ☐ Brazil
- ☐ British Indian Ocean Territory
- ☐ Brunei

- ☐ Bulgaria
- ☐ Burkina Faso
- ☐ Burundi
- ☐ Cambodia
- ☐ Cameroon
- ☐ Canada
- ☐ Cape Verde
- ☐ Caribbean Netherlands (Bonaire, Sint Eustatius and Saba)
- ☐ Cayman Islands
- ☐ Central African Republic
- ☐ Chad
- ☐ Chile
- ☐ China Mainland
- ☐ Christmas Island
- ☐ Cocos (Keeling) Islands
- ☐ Colombia
- ☐ Comoros
- ☐ Congo, Democratic Republic of the
- ☐ Congo, Republic of the
- ☐ Cook Islands
- ☐ Costa Rica
- ☐ Côte d'Ivoire
- ☐ Croatia
- ☐ Cuba
- ☐ Curaçao
- ☐ Cyprus
- ☐ Czech Republic
- ☐ Denmark
- ☐ Djibouti
- ☐ Dominica
- ☐ Dominican Republic
- ☐ Ecuador
- ☐ Egypt

- ☐ El Salvador
- ☐ Equatorial Guinea
- ☐ Eritrea
- ☐ Estonia
- ☐ Eswatini
- ☐ Ethiopia
- ☐ Falkland Islands (Malvinas)
- ☐ Faroe Islands
- ☐ Fiji
- ☐ Finland
- ☐ Finland: Åland Islands
- ☐ France
- ☐ French Guiana
- ☐ French Polynesia
- ☐ French Southern and Antarctic Lands
- ☐ Gabon
- ☐ Gambia
- ☐ Georgia
- ☐ Germany
- ☐ Ghana
- ☐ Gibraltar
- ☐ Greece
- ☐ Greenland
- ☐ Grenada
- ☐ Guadeloupe
- ☐ Guam
- ☐ Guatemala
- ☐ Guernsey
- ☐ Guinea
- ☐ Guinea-Bissau
- ☐ Guyana
- ☐ Haiti
- ☐ Holy See (Vatican City State)

- ☐ Honduras
- ☐ Hong Kong
- ☐ Hungary
- ☐ Iceland
- ☐ India
- ☐ Indonesia
- ☐ Iran
- ☐ Iraq
- ☐ Ireland
- ☐ Isle of Man
- ☐ Israel
- ☐ Italy
- ☐ Jamaica
- ☐ Japan
- ☐ Jersey
- ☐ Jordan
- ☐ Kazakhstan
- ☐ Kenya
- ☐ Kiribati
- ☐ Korea, Democratic People's Republic of (North Korea)
- ☐ Korea, Republic of (South Korea)
- ☐ Kosovo
- ☐ Kuwait
- ☐ Kyrgyzstan
- ☐ Laos
- ☐ Latvia
- ☐ Lebanon
- ☐ Lesotho
- ☐ Liberia
- ☐ Libya
- ☐ Liechtenstein
- ☐ Lithuania
- ☐ Luxembourg

- ☐ Macao
- ☐ Madagascar
- ☐ Malawi
- ☐ Malaysia
- ☐ Maldives
- ☐ Mali
- ☐ Malta
- ☐ Marshall Islands
- ☐ Martinique
- ☐ Mauritania
- ☐ Mauritius
- ☐ Mayotte
- ☐ Mexico
- ☐ Micronesia, Federated States of
- ☐ Moldova
- ☐ Monaco
- ☐ Mongolia
- ☐ Montenegro
- ☐ Montserrat
- ☐ Morocco
- ☐ Mozambique
- ☐ Myanmar
- ☐ Namibia
- ☐ Nauru
- ☐ Nepal
- ☐ Netherlands
- ☐ New Caledonia
- ☐ New Zealand
- ☐ Nicaragua
- ☐ Niger
- ☐ Nigeria
- ☐ Niue
- ☐ Norfolk Island

- ☐ North Macedonia
- ☐ Northern Mariana Islands
- ☐ Norway
- ☐ Oman
- ☐ Pakistan
- ☐ Palau
- ☐ Palestinian Territories
- ☐ Panama
- ☐ Papua New Guinea
- ☐ Paraguay
- ☐ Peru
- ☐ Philippines
- ☐ Pitcairn
- ☐ Poland
- ☐ Portugal
- ☐ Puerto Rico
- ☐ Qatar
- ☐ Réunion
- ☐ Romania
- ☐ Russian Federation
- ☐ Rwanda
- ☐ Saint Helena
- ☐ Saint Kitts and Nevis
- ☐ Saint Lucia
- ☐ Saint Pierre and Miquelon
- ☐ Saint Vincent and the Grenadines
- ☐ Samoa
- ☐ San Marino
- ☐ São Tomé and Príncipe
- ☐ Saudi Arabia
- ☐ Senegal
- ☐ Serbia
- ☐ Seychelles

- ☐ Sierra Leone
- ☐ Singapore
- ☐ Slovakia
- ☐ Slovenia
- ☐ Solomon Islands
- ☐ Somalia
- ☐ South Africa
- ☐ South Georgia and the South Sandwich Islands
- ☐ South Sudan
- ☐ Spain
- ☐ Spain: Canary Islands
- ☐ Sri Lanka
- ☐ Sudan
- ☐ Suriname
- ☐ Svalbard and Jan Mayen
- ☐ Sweden
- ☐ Switzerland
- ☐ Syria
- ☐ Taiwan
- ☐ Tajikistan
- ☐ Tanzania
- ☐ Thailand
- ☐ Timor-Leste
- ☐ Togo
- ☐ Tokelau
- ☐ Tonga
- ☐ Trinidad and Tobago
- ☐ Tunisia
- ☐ Türkiye
- ☐ Turkmenistan
- ☐ Turks and Caicos Islands
- ☐ Tuvalu
- ☐ Uganda

- ☐ Ukraine
- ☐ United Arab Emirates
- ☐ United Kingdom
- ☐ United States
- ☐ Uruguay
- ☐ Uzbekistan
- ☐ Vanuatu
- ☐ Venezuela
- ☐ Vietnam
- ☐ Virgin Islands, British
- ☐ Virgin Islands, U.S.
- ☐ Wallis and Futuna
- ☐ Western Sahara
- ☐ Yemen
- ☐ Zambia
- ☐ Zimbabwe

What is your gender?

- ☐ Male
- ☐ Female
- ☐ Non-binary, genderqueer, or gender non-conforming
- ☐ I'd prefer not to say
- ☐ Other, please specify:: _____

Page entry logic: This page will show when: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Founder or business owner in software or tech", "Working student")

Company

Logic: Show/hide trigger exists.

How many people work for your company / organization?*

- ☐ Just me
- ☐ 2–10
- ☐ 11–50
- ☐ 51–500
- ☐ 501–1,000
- ☐ 1,001–5,000
- ☐ More than 5,000
- ☐ I'm not sure

What percentage of people in your company or organization write code (approximately)?*

- ☐ 0–20%
- ☐ 21–40%
- ☐ 41–60%
- ☐ 61–80%
- ☐ 81–100%
- ☐ I'm not sure

Which of the following sectors is your company or organization primarily active in?*

- ☐ Telecommunication, networking, and wireless infrastructure
- ☐ Consumer electronics: smart home appliances and systems
- ☐ Consumer electronics: handheld devices
- ☐ Consumer electronics: games and entertainment
- ☐ Home automation
- ☐ Industrial control/automation (industrial IoT, M2M)
- ☐ Computers and peripherals
- ☐ Semiconductors (microprocessors, etc.)

- ☐ Healthcare industry devices
- ☐ Electronic instruments
- ☐ VR / AR devices
- ☐ Other hardware / Embedded / IoT
- ☐ Game development (including mobile games)
- ☐ Mobile development
- ☐ Cloud computing / Platform / Data center
- ☐ Big data / Data analysis
- ☐ Outsourced software development
- ☐ Software development tools
- ☐ Internet / Search engines
- ☐ AI services
- ☐ E-commerce
- ☐ Cybersecurity
- ☐ Cryptocurrencies
- ☐ Blockchain technologies
- ☐ Other fintech: money transfer, digital banking, etc.
- ☐ Other IT services
- ☐ Other software (all other types of software)
- ☐ Banking
- ☐ Real estate / Mortgage financing / Accounting / Insurance
- ☐ Business / Strategic management
- ☐ BPO services
- ☐ Marketing
- ☐ Administration / Management / Business development
- ☐ Customer support
- ☐ Design
- ☐ Human resources
- ☐ Logistics / Transportation
- ☐ Law
- ☐ Service / Maintenance
- ☐ Other business or professional services
- ☐ Agriculture / Food

- ☐ Consumer electronics
- ☐ Aerospace
- ☐ Automotive and boating
- ☐ Construction / Architecture
- ☐ Military / Defense
- ☐ Power generation and utilities
- ☐ Machinery
- ☐ Other manufacturing
- ☐ Restaurants / Hospitality / Tourism
- ☐ Medicine / Health
- ☐ Sales / Distribution / Retail
- ☐ Entertainment / Mass media and information / Publishing
- ☐ Other consumer service
- ☐ Education / Training
- ☐ E-learning
- ☐ Science
- ☐ Government and municipal services
- ☐ Non-profit
- ☐ Security
- ☐ Other, please specify:: _____

Which kinds of development is your company or organization involved in?*

- ☐ None
- ☐ Product development
- ☐ Outsourcing
- ☐ Custom-tailored software, websites, or applications
- ☐ In-house development
- ☐ Internal deployment and maintenance of third-party tools
- ☐ Customer services development (websites, mobile apps, etc.)
- ☐ Open-source projects
- ☐ Other, please specify:: _____

Which of the following best describe the company or organization you work for? Select all that apply.*

- ☐ Startup
- ☐ Governmental
- ☐ Non-profit
- ☐ Privately owned
- ☐ Publicly traded
- ☐ Family-owned
- ☐ Multinational corporation
- ☐ B2B
- ☐ B2C
- ☐ None of the above

What is the name of your company or organization? (Optional)

How many people work in your project team?*

- ☐ I work on my projects independently
- ☐ 2–7 people
- ☐ 8–12 people
- ☐ 13–20 people
- ☐ 21–40 people
- ☐ More than 40 people

Types of software and activities

On which operating systems are your development environments?*

- ☐ Windows
- ☐ Linux
- ☐ macOS
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

On which platforms is your code executed?*

- ☐ Desktop
- ☐ Browser
- ☐ WebAssembly
- ☐ Mobile
- ☐ Console (Xbox, PlayStation, Nintendo, etc.)
- ☐ Server / Infrastructure / Cloud
- ☐ IoT / Embedded
- ☐ Other, please specify:: _____

Do you develop any applications? If so, where is the end-user application executed?*

- ☐ No, I don't develop applications
- ☐ Desktop (GUI)
- ☐ Desktop (CLI)
- ☐ IoT / Embedded
- ☐ Browser
- ☐ Mobile
- ☐ Console (Xbox, PlayStation, Nintendo, etc.)
- ☐ Server / Cloud
- ☐ Other, please specify:: _____

Logic: Hidden unless: #22 Question "On which platforms is your code executed?" is one of the following answers ("Desktop")

Which desktop platforms do you target with your projects?*

☐ Windows

☐ Linux

☐ macOS

☐ Other, please specify:: _____

Which specific functionality does your code implement?*

☐ Libraries / Frameworks

☐ Blockchain technology

☐ User interface (handling user inputs and interactive elements)

☐ Data processing and analytics

☐ System tools and components

☐ Security, encryption, and cryptographic protocols

☐ Ad hoc scripts

☐ Integrating with APIs and services

☐ Providing APIs and services

☐ Network communication protocols

☐ Artificial intelligence and machine learning

☐ Audio or video processing

☐ Automating software testing and quality assurance

☐ Hardware interfacing and control systems

☐ Rendering and processing graphics (2D/3D)

☐ Conducting simulations and predictive modeling

☐ Integration with AI

☐ Data science / Data analytics

☐ Application logic and workflows

☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which kinds of software, products, or services do you develop?*

- ☐ I don't develop a specific product or service
- ☐ Augmented reality / Virtual reality
- ☐ Cloud services
- ☐ Entertainment
- ☐ Finance
- ☐ Games
- ☐ Mini-apps (within WeChat, Alipay, etc.)
- ☐ Development tools (IDEs, databases, frameworks, programming languages, etc.)
- ☐ Hardware
- ☐ Home automation
- ☐ IT infrastructure
- ☐ Rendering and visualization
- ☐ Security
- ☐ System software
- ☐ Websites
- ☐ Web services (without a GUI)
- ☐ Business applications
- ☐ Analytical software
- ☐ Other, please specify: _____

Logic: Hidden unless: #26 Question "Which kinds of software, products, or services do you develop?" is one of the following answers ("Websites")

Which kinds of websites do you develop?*

- ☐ Business websites
- ☐ Personal or portfolio websites
- ☐ Informational websites (Wiki, etc.)
- ☐ E-commerce websites
- ☐ Intranet portals

- ☐ Multifunctional web portals (like Amazon, Google, government services, etc.)
- ☐ Blog / Social media / Forum platforms
- ☐ News or entertainment content
- ☐ Educational / MOOC platforms
- ☐ Web interfaces for products (such as a game, banking service, home automation solution, etc.)
- ☐ Other, please specify:: _____

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

What types of development are you involved in at work?*

Please provide an answer based on your development work in any programming language.

- ☐ I don't do software development professionally
- ☐ Full-stack
- ☐ Frontend
- ☐ Backend
- ☐ Automated test
- ☐ Desktop
- ☐ Mobile
- ☐ AI and AI tools
- ☐ Games
- ☐ Embedded and IoT
- ☐ Data science and ML
- ☐ Infrastructure / DevOps
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

How familiar are you with JetBrains products?*

JETBRAINS IDEs

Aqua

CLion

DataGrip

DataSpell

Fleet

GoLand

IntelliJ IDEA

PhpStorm

PyCharm

Rider

RubyMine

RustRover

WebStorm

PLUGINS

Writerside

JetBrains

IDE Them

Big Data

Code Wit

RiderFlow

Scala

Toolbox A

Grazie

JetBrains

- ☐ I currently use JetBrains products
 - ☐ I have used JetBrains products, but stopped
 - ☐ I have evaluated some JetBrains products, but haven't adopted any
 - ☐ I have heard of JetBrains, but I've never tried any of its products
 - ☐ I have never heard of JetBrains or its products
-

Programming Languages

Page exit logic: Skip / Disqualify Logic**IF:** #30 Question "Which programming languages have you used in the last 12 months?" is one of the following answers ("I don't use programming languages") **THEN:** Jump to [page 35 - AI \(Qs for ALL\)](#)

Page exit logic: Skip / Disqualify Logic**IF:** (#2 Question "Which of the following best describes your employment and involvement in software development?" is not one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student", "Not currently employed, but with past experience in software development (e.g. unemployed, retired, or on leave)", "Learning or practicing software development as a hobby or career transition", "Not involved in software development or related fields") AND #30 Question "Which programming languages have you used in the last 12 months?" is one of the following answers ("I don't use programming languages")) **THEN:** Jump to [page 140 - Thank You!](#)

Logic: Show/hide trigger exists.

Which programming languages have you used in the last 12 months?*

- ☐ I don't use programming languages
- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#

- ☐ C++
- ☐ Clojure / ClojureScript
- ☐ COBOL
- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
- ☐ F#
- ☐ Go
- ☐ Groovy
- ☐ Haskell
- ☐ HTML / CSS
- ☐ Java
- ☐ JavaScript
- ☐ Julia
- ☐ Kotlin
- ☐ LabVIEW (G dataflow)
- ☐ Lua
- ☐ MATLAB
- ☐ Objective-C
- ☐ Perl
- ☐ PHP
- ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
- ☐ Python
- ☐ R
- ☐ Ruby
- ☐ Rust
- ☐ Scala
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
- ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
- ☐ Swift
- ☐ TypeScript
- ☐ Visual Basic

☐ Other, please specify:: _____

Primary Programming Language

Validation: Max. answers = 3 (*if answered*)

Logic: Show/hide trigger exists.

What are your primary programming languages? *

Choose no more than three languages

- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#
- ☐ C++
- ☐ Clojure / ClojureScript
- ☐ COBOL
- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
- ☐ F#
- ☐ Go
- ☐ Groovy
- ☐ Haskell
- ☐ HTML / CSS
- ☐ Java
- ☐ JavaScript
- ☐ Julia
- ☐ Kotlin

- ☐ LabVIEW (G dataflow)
 - ☐ Lua
 - ☐ MATLAB
 - ☐ Objective-C
 - ☐ Perl
 - ☐ PHP
 - ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
 - ☐ Python
 - ☐ R
 - ☐ Ruby
 - ☐ Rust
 - ☐ Scala
 - ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
 - ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
 - ☐ Swift
 - ☐ TypeScript
 - ☐ Visual Basic
 - ☐ Other, please specify: _____
-

Main language

What is your main programming language?*

Choose one language you use the most

- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#
- ☐ C++
- ☐ Clojure / ClojureScript

- ☐ COBOL
- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
- ☐ F#
- ☐ Go
- ☐ Groovy
- ☐ Haskell
- ☐ HTML / CSS
- ☐ Java
- ☐ JavaScript
- ☐ Julia
- ☐ Kotlin
- ☐ LabVIEW (G dataflow)
- ☐ Lua
- ☐ MATLAB
- ☐ Objective-C
- ☐ Perl
- ☐ PHP
- ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
- ☐ Python
- ☐ R
- ☐ Ruby
- ☐ Rust
- ☐ Scala
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
- ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
- ☐ Swift
- ☐ TypeScript
- ☐ Visual Basic
- ☐ Other, please specify:: _____

Primary languages 12 months ago

What were your primary programming languages 12 months ago?*

Choose no more than three languages.

- ☐ The same language(s) that I use now
- ☐ None, I didn't use any programming languages 12 months ago
- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#
- ☐ C++
- ☐ Clojure / ClojureScript
- ☐ COBOL
- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
- ☐ F#
- ☐ Go
- ☐ Groovy
- ☐ Haskell
- ☐ HTML / CSS
- ☐ Java
- ☐ JavaScript
- ☐ Julia
- ☐ Kotlin
- ☐ LabVIEW (G dataflow)
- ☐ Lua

- ☐ MATLAB
 - ☐ Objective-C
 - ☐ Perl
 - ☐ PHP
 - ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
 - ☐ Python
 - ☐ R
 - ☐ Ruby
 - ☐ Rust
 - ☐ Scala
 - ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
 - ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
 - ☐ Swift
 - ☐ TypeScript
 - ☐ Visual Basic
 - ☐ Other, please specify: _____
-

Main language 12 months ago

What was your main programming language 12 months ago?*

Choose one language you used the most

- ☐ The same language that I use now
- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#
- ☐ C++
- ☐ Clojure / ClojureScript
- ☐ COBOL

- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
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- ☐ Groovy
- ☐ Haskell
- ☐ HTML / CSS
- ☐ Java
- ☐ JavaScript
- ☐ Julia
- ☐ Kotlin
- ☐ LabVIEW (G dataflow)
- ☐ Lua
- ☐ MATLAB
- ☐ Objective-C
- ☐ Perl
- ☐ PHP
- ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
- ☐ Python
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- ☐ Ruby
- ☐ Rust
- ☐ Scala
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
- ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
- ☐ Swift
- ☐ TypeScript
- ☐ Visual Basic
- ☐ Other, please specify:: _____

Migration reasons and plans

Why has your main programming language changed since 12 months ago?*

- ☐ Better job market opportunities in my new main programming language
- ☐ More modern language features in my new main programming language
- ☐ Better development experience in my new main programming language
- ☐ Performance and scalability limitations in my previous main programming language
- ☐ Better ecosystem and library support in my new main programming language
- ☐ My company or team started / is using a new language
- ☐ A project I am working on requires the usage of a new language
- ☐ I wanted to learn a new language
- ☐ Other, please specify:: _____

Do you plan to adopt or migrate to other languages in the next 12 months? If so, which ones?*

- ☐ No, I'm not planning to adopt or migrate to any other languages
- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#
- ☐ C++
- ☐ Clojure / ClojureScript
- ☐ COBOL
- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
- ☐ F#
- ☐ Go

- ☐ Groovy
 - ☐ Haskell
 - ☐ HTML / CSS
 - ☐ Java
 - ☐ JavaScript
 - ☐ Julia
 - ☐ Kotlin
 - ☐ LabVIEW (G dataflow)
 - ☐ Lua
 - ☐ MATLAB
 - ☐ Objective-C
 - ☐ Perl
 - ☐ PHP
 - ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
 - ☐ Python
 - ☐ R
 - ☐ Ruby
 - ☐ Rust
 - ☐ Scala
 - ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
 - ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
 - ☐ Swift
 - ☐ TypeScript
 - ☐ Visual Basic
 - ☐ Other, please specify:: _____
-

Programming Language by platforms

Piping: Piped Values From Question 31. (What are your primary programming languages?)

For which platforms do you use your primary languages?

| |
|---|
| |
| Desktop |
| Browser |
| WebAssembly |
| Mobile |
| Console (Xbox, PlayStation, Nintendo, etc.) |
| Server / Infrastructure / Cloud |
| IoT / Embedded |

Programming language by functionality

Piping: Piped Values From Question 31. (What are your primary programming languages?)

Which of the following do you develop in your primary languages?

| |
|---------------------------|
| |
| Libraries / Frameworks |

| |
|--|
| Blockchain technology |
| User interface (handling user inputs and interactive elements) |
| Data processing and analytics |
| System tools and components |
| Security, encryption, and cryptographic protocols |
| Ad hoc scripts |
| Integrating with APIs and services |
| Providing APIs and services |
| Network communication protocols |
| Artificial intelligence and machine learning |
| Audio or video processing |

| |
|---|
| Automating software testing and quality assurance |
| Hardware interfacing and control systems |
| Rendering and processing graphics (2D/3D) |
| Conducting simulations and predictive modeling |
| Integration with AI |
| Data science / Data analytics |
| Application logic and workflows |

Languages by software type

Piping: Piped Values From Question 31. (What are your primary programming languages?)

Which languages do you use to develop each of the following kinds of software, products, and services?

| |
|--|
| Augmented reality / Virtual reality |
| Cloud services |
| Entertainment |
| Finance |
| Games |
| Mini-apps (within WeChat, Alipay, etc.) |
| Development tools (IDEs, databases, frameworks, programming languages, etc.) |
| Hardware |
| Home automation |
| IT infrastructure |
| Rendering and visualization |
| Security |
| System software |

| |
|------------------------------------|
| Websites |
| Web services (without a GUI) |
| Business applications |
| Analytical software |

IDE

Which IDEs or editors do you regularly use?*

- ☐ Arduino IDE
- ☐ IntelliJ IDEA
- ☐ Android Studio
- ☐ Visual Studio
- ☐ Xcode
- ☐ PhpStorm
- ☐ WebStorm
- ☐ RubyMine
- ☐ PyCharm
- ☐ Vim
- ☐ Sublime Text
- ☐ Atom
- ☐ Visual Studio Code
- ☐ Notepad++
- ☐ AppCode
- ☐ CLion
- ☐ Eclipse or an Eclipse-based IDE

- ☐ NetBeans
 - ☐ Qt Creator
 - ☐ Emacs
 - ☐ DataSpell
 - ☐ GoLand
 - ☐ DataGrip
 - ☐ Fleet
 - ☐ Rider
 - ☐ gedit
 - ☐ IPython/Jupyter Notebook
 - ☐ RStudio
 - ☐ Cursor
 - ☐ Windsurf
 - ☐ Zed
 - ☐ Project IDX
 - ☐ Neovim
 - ☐ RustRover
 - ☐ Other, please specify:: _____
-

Main IDE

Which IDE or editor do you primarily use?*

- ☐ Arduino IDE
- ☐ IntelliJ IDEA
- ☐ Android Studio
- ☐ Visual Studio
- ☐ Xcode
- ☐ PhpStorm
- ☐ WebStorm
- ☐ RubyMine

- ☐ PyCharm
 - ☐ Vim
 - ☐ Sublime Text
 - ☐ Atom
 - ☐ Visual Studio Code
 - ☐ Notepad++
 - ☐ AppCode
 - ☐ CLion
 - ☐ Eclipse or an Eclipse-based IDE
 - ☐ NetBeans
 - ☐ Qt Creator
 - ☐ Emacs
 - ☐ DataSpell
 - ☐ GoLand
 - ☐ DataGrip
 - ☐ Fleet
 - ☐ Rider
 - ☐ gedit
 - ☐ IPython/Jupyter Notebook
 - ☐ RStudio
 - ☐ Cursor
 - ☐ Windsurf
 - ☐ Zed
 - ☐ Project IDX
 - ☐ Neovim
 - ☐ RustRover
 - ☐ Other, please specify:: _____
-

IDEs past (50% chance to be shown)

Which IDEs or editors did you regularly use 12 months ago?*

- ☐ The same one that I use now
- ☐ None, I didn't use any IDEs or editors 12 months ago
- ☐ Arduino IDE
- ☐ IntelliJ IDEA
- ☐ Android Studio
- ☐ Visual Studio
- ☐ Xcode
- ☐ PhpStorm
- ☐ WebStorm
- ☐ RubyMine
- ☐ PyCharm
- ☐ Vim
- ☐ Sublime Text
- ☐ Atom
- ☐ Visual Studio Code
- ☐ Notepad++
- ☐ AppCode
- ☐ CLion
- ☐ Eclipse or an Eclipse-based IDE
- ☐ NetBeans
- ☐ Qt Creator
- ☐ Emacs
- ☐ DataSpell
- ☐ GoLand
- ☐ DataGrip
- ☐ Fleet
- ☐ Rider
- ☐ gedit
- ☐ IPython/Jupyter Notebook
- ☐ RStudio
- ☐ Cursor

- ☐ Windsurf
 - ☐ Zed
 - ☐ Project IDX
 - ☐ Neovim
 - ☐ RustRover
 - ☐ Other, please specify:: _____
-

IDEs main in the past

Which IDE or editor did you use the most 12 months ago?*

- ☐ The same one that I use now
- ☐ Arduino IDE
- ☐ IntelliJ IDEA
- ☐ Android Studio
- ☐ Visual Studio
- ☐ Xcode
- ☐ PhpStorm
- ☐ WebStorm
- ☐ RubyMine
- ☐ PyCharm
- ☐ Vim
- ☐ Sublime Text
- ☐ Atom
- ☐ Visual Studio Code
- ☐ Notepad++
- ☐ AppCode
- ☐ CLion
- ☐ Eclipse or an Eclipse-based IDE
- ☐ NetBeans
- ☐ Qt Creator

- ☐ Emacs
 - ☐ DataSpell
 - ☐ GoLand
 - ☐ DataGrip
 - ☐ Fleet
 - ☐ Rider
 - ☐ gedit
 - ☐ IPython/Jupyter Notebook
 - ☐ RStudio
 - ☐ Cursor
 - ☐ Windsurf
 - ☐ Zed
 - ☐ Project IDX
 - ☐ Neovim
 - ☐ RustRover
 - ☐ Other, please specify:: _____
-

IDEs remaining questions

Why has your main IDE / editor changed in the last 12 months?*

- ☐ I changed programming language and the new IDE / editor better suits it
- ☐ My company stopped paying for my old main IDE / editor
- ☐ My team switched to a different IDE and I switched as well
- ☐ My new main IDE / editor better suits my new tech stack
- ☐ My old main IDE / editor was buggy
- ☐ My new main IDE / editor has better support for different programming languages
- ☐ My new main IDE / editor has a richer plugins ecosystem
- ☐ My new main IDE / editor has better AI features or plugins
- ☐ My new main IDE / editor has better performance

- ☐ My new main IDE / editor is lightweight
- ☐ My new main IDE / editor is easier to use
- ☐ My new main IDE / editor has a better user interface and design
- ☐ My new main IDE / editor is cheaper or free
- ☐ Other, please specify:: _____

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Working student", "Student")

Which of the following tools have your teachers or professors advised you to use?*

- ☐ None
- ☐ JetBrains Academy Plugin
- ☐ RStudio
- ☐ IntelliJ IDEA
- ☐ Android Studio
- ☐ Visual Studio
- ☐ Xcode
- ☐ PhpStorm
- ☐ GoLand
- ☐ WebStorm
- ☐ RubyMine
- ☐ PyCharm
- ☐ Vi / Vim
- ☐ Sublime Text
- ☐ Atom
- ☐ Visual Studio Code
- ☐ Notepad++
- ☐ AppCode
- ☐ CLion
- ☐ Eclipse
- ☐ NetBeans

- ☐ Qt Creator
- ☐ Emacs
- ☐ TextMate
- ☐ Rider
- ☐ gedit
- ☐ IPython / Jupyter Notebook
- ☐ ChatGPT
- ☐ GitHub Copilot
- ☐ Google Gemini
- ☐ Microsoft Bing Chat
- ☐ Cursor
- ☐ Neovim
- ☐ RustRover
- ☐ Other, please specify:: _____ *

Logic: Hidden unless: (#45 Question "Which types of licenses do you or your company hold for IDEs or code editors that you use?" is not one of the following answers ("Paid") AND #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student"))

Which of the following statements describes your opinion on adopting paid IDEs or code editors?*

- ☐ I am ready to pay for paid IDEs or code editors myself if I see value
 - ☐ I am ready to adopt paid IDEs or code editors if my organization provides them
 - ☐ Paid IDEs or code editors are too expensive
 - ☐ I am not ready to adopt paid IDEs or code editors at all because of my beliefs
 - ☐ It is hard or impossible to buy paid IDEs or code editors in my country
 - ☐ None of the above
-

AI (Qs for ALL)

AI (Qs for ALL) 3

Logic: Show/hide trigger exists.

Which of these AI tools do you regularly use for coding and other development-related activities?*

- ☐ Aider
- ☐ Amazon Q Developer (previously CodeWhisperer)
- ☐ Anthropic Claude web / desktop / mobile apps (not inside third-party tools)
- ☐ Anthropic Claude Code
- ☐ ChatGPT web / desktop / mobile apps (not inside third-party tools)
- ☐ CodeGPT plugin in VS Code
- ☐ CodeGPT plugin in JetBrains IDEs (IntelliJ IDEA, PyCharm, PhpStorm, etc.)
- ☐ Meta Llama self-hosted / locally installed (not inside third-party tools)
- ☐ Windsurf Plugin (previously Codeium)
- ☐ Qodo (previously Codium and Codiumate)
- ☐ Sourcegraph Cody
- ☐ Continue
- ☐ Cursor
- ☐ CodeGeeX
- ☐ Cline (previously Claude Dev)
- ☐ Devin
- ☐ Gemini Code Assist (previously Duet AI for Developers)
- ☐ Gemini in Android Studio
- ☐ Google Gemini web / mobile apps (not inside third-party tools)
- ☐ Google Jules
- ☐ GitHub Copilot
- ☐ GitHub Spark
- ☐ GitLab Duo

- ☐ JetBrains AI Assistant
 - ☐ Microsoft 365 Copilot
 - ☐ Firebase Studio (previously Project IDX)
 - ☐ OpenAI Codex CLI
 - ☐ Replit
 - ☐ Tabnine
 - ☐ TONGYI Lingma
 - ☐ Trae
 - ☐ Visual Studio IntelliCode
 - ☐ Windsurf
 - ☐ Zed
 - ☐ Built-in AI features in Xcode
 - ☐ Lovable
 - ☐ Vercel v0
 - ☐ Bolt
 - ☐ JetBrains Junie
 - ☐ Pieces for Developers
 - ☐ Perplexity
 - ☐ MarsCode
 - ☐ DeepSeek apps or self-hosted / locally installed (not inside third-party tools)
 - ☐ Project Padawan (AI coding agent project by GitHub)
 - ☐ Custom AI tool
 - ☐ Other, please specify:: _____
 - ☐ None
-

AI (Qs for ALL) 6

How likely are you to try AI coding agents in the next 12 months?*

- ☐ Very likely
- ☐ Somewhat likely

- ☐ Not sure
- ☐ Somewhat unlikely
- ☐ Very unlikely
- ☐ I already use AI coding agents

Logic: Show/hide trigger exists. Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000", "I'm not sure")

In your opinion, how likely is your company to try AI coding agents in the next 12 months?*

- ☐ Very likely
- ☐ Somewhat likely
- ☐ Not sure
- ☐ Somewhat unlikely
- ☐ Very unlikely
- ☐ My company is already using AI coding agents

Logic: Hidden unless: #63 Question "In your opinion, how likely is your company to try AI coding agents in the next 12 months?" is one of the following answers ("Not sure", "Somewhat unlikely", "Very unlikely")

In your opinion, why would your company not be likely to try AI coding agents in the next 12 months?*

- ☐ These tools are / would be expensive
- ☐ Coders don't see value in such tools or services
- ☐ Management doesn't see value in such tools or services
- ☐ Data privacy and security concerns
- ☐ Concerns about intellectual property rights over code generated by such tools
- ☐ Lack of knowledge about such tools in the company
- ☐ Difficulty in incorporating such tools into existing workflows and systems
- ☐ Processes and decision-making for adopting new technologies are slow and conservative

- ☐ Distrust of new technologies
- ☐ We have no resources for investigating the benefits and risks of adopting such tools
- ☐ Other, please specify: _____
- ☐ I don't know

Logic: Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000", "I'm not sure")

What is your company's policy on the use of third-party cloud-based AI tools (such as ChatGPT, GitHub Copilot, Cursor, and similar) for coding and development-related tasks?

- ☐ Allowed for all projects
- ☐ Allowed only for some projects
- ☐ Prohibited for all projects
- ☐ Other, please specify: _____
- ☐ There is no such policy in my company
- ☐ I don't know

Logic: Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000", "I'm not sure")

What is your company's policy on the access of third-party cloud-based AI tools (such as ChatGPT, GitHub Copilot, Cursor, and similar) to the codebase?

- ☐ Allowed for all projects
- ☐ Allowed only for some projects
- ☐ Prohibited for all projects
- ☐ Other, please specify: _____
- ☐ There is no such policy in my company
- ☐ I don't know

DB List

Page exit logic: Skip / Disqualify Logic**IF:** #30 Question "Which programming languages have you used in the last 12 months?" is one of the following answers ("I don't use programming languages") **THEN:** Jump to [page 47 - Global logic script](#)

Which databases have you used in the last 12 months, if any?*

- ☐ None
- ☐ Amazon Athena
- ☐ Amazon DynamoDB
- ☐ Amazon Redshift
- ☐ Apache Cassandra
- ☐ Apache HBase
- ☐ BigQuery
- ☐ ClickHouse
- ☐ Cloud Firestore
- ☐ CockroachDB
- ☐ Couchbase
- ☐ Elasticsearch
- ☐ Exasol
- ☐ H2
- ☐ IBM Db2
- ☐ MariaDB
- ☐ Microsoft SQL Server
- ☐ MongoDB
- ☐ MySQL
- ☐ Neo4j
- ☐ Oracle Database
- ☐ Presto

- ☐ Redis
 - ☐ Snowflake
 - ☐ SQLite
 - ☐ Teradata
 - ☐ PostgreSQL
 - ☐ Other, please specify:: _____
-

Micro, remote, low code - intro qs

Do you develop microservices?*

- ☐ Yes
- ☐ No

Do you ever develop on a remote machine or in a cloud development environment?*

- ☐ Yes
- ☐ No

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

How much experience do you have with low-code/no-code platforms?*

Low-code/no-code platforms are software development tools and environments that enable the creation of software through graphical interfaces and configuration using ready-made components, rather than traditional programming methods. Examples of such platforms are Microsoft Power Apps, Mendix, OutSystems, and Google AppSheet.

- ☐ I develop applications using low-code/no-code platforms

- ☐ I develop systems to support other users of low-code/no-code platforms
 - ☐ I've used or evaluated some low-code/no-code solutions but don't use them right now
 - ☐ I haven't used any low-code/no-code platforms, but they are used in my company
 - ☐ I've heard of low-code/no-code platforms, but I've never tried any
 - ☐ I've never heard of the low-code/no-code concept
-

AI non-adopters: reasons, drivers for adoption (random)

What prevents you from using AI coding assistants, agents or editors for developers (such as GitHub Copilot, JetBrains AI Assistant, Cursor, and similar)?*

- ☐ I plan to try them in the future
- ☐ My employer's policy prohibits their use
- ☐ My employer will not buy them
- ☐ I have data privacy and security concerns
- ☐ I have intellectual property concerns over code generated by AI tools
- ☐ I have ethical concerns about AI
- ☐ The quality of code generated by them is poor
- ☐ The quality of answers or generated code for my technical stack (programming language(s), frameworks, etc.) is poor
- ☐ I prefer to do everything myself
- ☐ I distrust their capabilities and usefulness
- ☐ They are too expensive
- ☐ They are poorly integrated with IDEs or code editors
- ☐ They lack context awareness
- ☐ They have a limited understanding of complex code and logic
- ☐ It takes more time to get useful results with AI tools than without them
- ☐ I've previously had a negative experience using them
- ☐ I just don't need them
- ☐ Other, please specify: _____

What would make you more likely to consider using AI coding assistants, agents or editors in the future (such as GitHub Copilot, JetBrains AI Assistant, Cursor, and similar)?*

- ☐ Better integration of such tools with IDEs or code editors
- ☐ Better quality of code generated by such tools
- ☐ Better integration into development workflows (e.g. Git, CI/CD pipelines, deployment, etc.)
- ☐ More features in such tools
- ☐ Better user interface of such tools themselves
- ☐ Cheaper prices of such tools
- ☐ Pay-per-use pricing rather than a subscription model
- ☐ Non-usage of users' data for AI model / LLM training
- ☐ The ability to fine-tune AI models / LLMs on my codebase
- ☐ Local, non-cloud-based AI models / LLMs behind such tools
- ☐ Trustworthy data privacy and security policies of such tools
- ☐ Guarantees that the generated code is not somebody else's intellectual property
- ☐ A new policy in my company
- ☐ Availability of the best AI models / LLMs for coding
- ☐ Availability of different AI models / LLMs
- ☐ Other, please specify:: _____
- ☐ I don't know

SQL & Databases

How do you plan to use this database in your future projects?*

| | | | |
|--|--------------------------|---------------------------------------|--------------------------|
| | More actively | At the same level as I | Less actively |
|--|--------------------------|---------------------------------------|--------------------------|

| | | do currently | |
|-------------------------|----|-------------------------|----|
| Amazon Athena | () | () | () |
| Amazon DynamoDB | () | () | () |
| Amazon Redshift | () | () | () |
| Apache Cassandra | () | () | () |
| Apache HBase | () | () | () |
| BigQuery | () | () | () |
| ClickHouse | () | () | () |
| Cloud Firestore | () | () | () |
| CockroachDB | () | () | () |
| Couchbase | () | () | () |
| Elasticsearch | () | () | () |
| Exasol | () | () | () |
| H2 | () | () | () |
| IBM Db2 | () | () | () |
| MariaDB | () | () | () |
| Microsoft SQL Server | () | () | () |

| | | | |
|-----------------|--------------------------|--------------------------|--------------------------|
| MongoDB | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| MySQL | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Neo4j | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Oracle Database | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| PostgreSQL | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Presto | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Redis | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Snowflake | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| SQLite | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Teradata | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Which tools do you regularly use for working with databases?*

- ☐ None
- ☐ Adminer (formerly phpMinAdmin)
- ☐ Android Studio
- ☐ Azure Data Studio
- ☐ Command line
- ☐ DBeaver
- ☐ HeidiSQL
- ☐ JetBrains DataGrip
- ☐ JetBrains IDEs (IntelliJ IDEA, PyCharm, etc.) with the Database Tools and SQL plugin
- ☐ MongoDB Compass
- ☐ MySQL Workbench
- ☐ Navicat
- ☐ Oracle SQL Developer

- ☐ pgAdmin
 - ☐ phpMyAdmin
 - ☐ PL/SQL Developer
 - ☐ PopSQL
 - ☐ Sequel Ace
 - ☐ Sequel Pro
 - ☐ SQL Server Management Studio
 - ☐ Studio 3T Free
 - ☐ TablePlus
 - ☐ Toad
 - ☐ Visual Studio Code
 - ☐ Other, please specify: _____
-

DB page 2

For how many full years have you worked with databases?*

- ☐ 1 year
- ☐ 1–3 years
- ☐ 4–7 years
- ☐ 8–10 years
- ☐ 11 years or more

Approximately how many rows does your largest table contain?*

- ☐ I don't know
- ☐ Hundreds or fewer
- ☐ Thousands
- ☐ Millions
- ☐ Billions
- ☐ Trillions or more

Java (primary or used last 12 months, 50% chance, 8 q of 10 shown)

The following questions are about Java development.

Which versions of Java do you regularly use?*

☐ Java 24

☐ Java 23

☐ Java 22

☐ Java 21

☐ Java 20

☐ Java 19

☐ Java 18

☐ Java 17

☐ Java 16

☐ Java 15

☐ Java 14

☐ Java 13

☐ Java 12

☐ Java 11

☐ Java 10

☐ Java 9

☐ Java 8

☐ Java 7

☐ Java 6

☐ I'm not sure

☐ Other, please specify:: _____

Which build systems do you regularly use?*

- ☐ None
- ☐ Maven
- ☐ sbt
- ☐ Gradle
- ☐ Ant
- ☐ Bazel
- ☐ Amper
- ☐ Other, please specify:: _____

Which unit testing frameworks do you use?*

- ☐ I don't write unit tests for Java
- ☐ I write unit tests but don't use any frameworks
- ☐ JUnit
- ☐ TestNG
- ☐ Mockito
- ☐ PowerMock
- ☐ Spock
- ☐ EasyMock
- ☐ JMockit
- ☐ Other, please specify:: _____

Which integration testing frameworks do you use?*

- ☐ I don't write integration tests for Java
- ☐ I write integration tests but don't use any frameworks
- ☐ JUnit
- ☐ TestNG
- ☐ WireMock

- ☐ Testcontainers
- ☐ MockServer
- ☐ REST Assured
- ☐ Selenium
- ☐ Other, please specify:: _____

Which web frameworks do you use?*

- ☐ None
- ☐ Spring Framework
- ☐ Micronaut
- ☐ Quarkus
- ☐ Helidon
- ☐ Ktor
- ☐ Grails
- ☐ Vaadin
- ☐ Other, please specify:: _____

Which Java Enterprise specification versions do you regularly use, if any?*

- ☐ None
- ☐ Jakarta EE 10
- ☐ Jakarta EE 9
- ☐ Java EE 8 / Jakarta EE 8
- ☐ Java EE 7
- ☐ Java EE 6
- ☐ Java EE 5
- ☐ J2EE
- ☐ I'm not sure
- ☐ Other, please specify:: _____

Which JVM profilers have you regularly used in the last 12 months, if any?*

- ☐ None
- ☐ IntelliJ IDEA's built-in profiler
- ☐ JProfiler
- ☐ Java Mission Control
- ☐ YourKit
- ☐ NetBeans Profiler
- ☐ async-profiler
- ☐ VisualVM
- ☐ My own custom tool
- ☐ Other, please specify:: _____

Which application servers do you regularly use, if any?*

- ☐ None
- ☐ Apache Tomcat
- ☐ Eclipse Jetty
- ☐ WildFly
- ☐ JBoss EAP
- ☐ WebLogic Server
- ☐ WebSphere Application Server
- ☐ WebSphere Liberty
- ☐ GlassFish
- ☐ Payara
- ☐ Other, please specify:: _____

How do you package your web applications?*

- ☐ As artifacts (e.g. WAR)
- ☐ I use an embedded server (e.g. JAR)
- ☐ I use Docker
- ☐ I use GraalVM Native Images

- ☐ I use jlink custom Java runtime images
- ☐ I'm not sure

Which IDE or editor do you use the most for Java development?*

- ☐ Eclipse or an Eclipse-based IDE (Spring Tool Suite, JBoss Tools, Scala IDE, etc.)
- ☐ IntelliJ IDEA
- ☐ Fleet
- ☐ NetBeans
- ☐ Vim
- ☐ Sublime Text
- ☐ Visual Studio Code
- ☐ Android Studio
- ☐ Cursor
- ☐ Windsurf
- ☐ Other, please specify:: _____ *
-

JavaScript (main, 50% chance, 8 of 15 q shown)

The following questions are about JavaScript and TypeScript development.

Which mobile frameworks do you regularly use?*

- ☐ None
- ☐ React Native
- ☐ Ionic
- ☐ Apache Cordova
- ☐ Capacitor

- ☐ Expo
- ☐ Quasar
- ☐ uni-app
- ☐ Other, please specify:: _____

Which desktop frameworks do you regularly use?*

- ☐ None
- ☐ Electron
- ☐ Quasar
- ☐ Tauri
- ☐ NW.js
- ☐ uni-app
- ☐ Other, please specify:: _____

Which JavaScript frontend frameworks do you regularly use?*

- ☐ None
- ☐ React
- ☐ Vue.js
- ☐ Angular
- ☐ htmx
- ☐ Svelte
- ☐ Lit
- ☐ SolidJS
- ☐ Qwik
- ☐ Other, please specify:: _____

Which JavaScript backend frameworks and libraries do you regularly use?*

- ☐ None
- ☐ Express

- ☐ Nest
- ☐ Fastify
- ☐ Koa
- ☐ AdonisJS
- ☐ Other, please specify:: _____

Which meta-frameworks do you regularly use?*

- ☐ None
- ☐ Next.js
- ☐ Nuxt
- ☐ Gatsby
- ☐ Remix
- ☐ Astro
- ☐ SvelteKit
- ☐ SolidStart
- ☐ Other, please specify:: _____

Which JavaScript runtimes do you regularly use?*

- ☐ None
- ☐ Browser
- ☐ Node.js
- ☐ Deno
- ☐ Bun
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which IDE or editor do you use the most for JavaScript and/or TypeScript development?*

- ☐ Visual Studio Code

- ☐ WebStorm
- ☐ Another JetBrains IDE (PyCharm, IntelliJ IDEA, PhpStorm, etc.)
- ☐ Cursor
- ☐ Zed
- ☐ Vi / Vim / Neovim
- ☐ Sublime Text
- ☐ Emacs
- ☐ Nova
- ☐ Visual Studio
- ☐ Notepad++
- ☐ Other, please specify: _____

Logic: Hidden unless: #105 Question "Which IDE or editor do you use the most for JavaScript and/or TypeScript development?"

How satisfied are you with the IDE or editor you use the most for JavaScript and/or TypeScript development?*

- ☐ Very satisfied
- ☐ Satisfied
- ☐ Neither satisfied nor dissatisfied
- ☐ Dissatisfied
- ☐ Very dissatisfied

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

What do you use JavaScript and/or TypeScript for at work?*

- ☐ I use JavaScript and TypeScript only for personal projects
- ☐ Frontend development
- ☐ Backend development

- ☐ Data analysis
- ☐ Machine learning
- ☐ Desktop application development
- ☐ Mobile application development
- ☐ Mini-app development
- ☐ Embedded application development
- ☐ Game development
- ☐ Data visualization
- ☐ Graphics and animation
- ☐ Progressive web applications (PWAs)
- ☐ Other, please specify: _____

Logic: Hidden unless: (#2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student") AND #28 Question "What types of development are you involved in at work?" is one of the following answers ("Full-stack"))

What is the ratio of your frontend to backend work tasks?*

- ☐ The vast majority of my tasks are on the frontend (client-side)
- ☐ More than half of my tasks are on the frontend (client-side)
- ☐ My tasks are split evenly between the frontend (client-side) and backend (server-side)
- ☐ More than half of my tasks are on the backend (server-side)
- ☐ The vast majority of my tasks are on the backend (server-side)

Logic: Hidden unless: (#2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student") AND #28 Question "What types of development are you involved in at work?" is one of the following answers ("Full-stack", "Backend"))

What programming language(s) do you use for backend development at work?*

- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#
- ☐ C++
- ☐ Clojure / ClojureScript
- ☐ COBOL
- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
- ☐ F#
- ☐ Go
- ☐ Groovy
- ☐ Haskell
- ☐ HTML / CSS
- ☐ Java
- ☐ JavaScript
- ☐ Julia
- ☐ Kotlin
- ☐ LabVIEW (G dataflow)
- ☐ Lua
- ☐ MATLAB
- ☐ Objective-C
- ☐ Perl
- ☐ PHP
- ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
- ☐ Python
- ☐ R
- ☐ Ruby
- ☐ Rust
- ☐ Scala
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)

☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)

☐ Swift

☐ TypeScript

☐ Visual Basic

☐ Other, please specify:: _____

How many active JavaScript / TypeScript contributors are involved in your main project?*

☐ 1–2

☐ 3–5

☐ 6–10

☐ More than 10

For how many years has your main project been in active development?*

☐ Less than 1 year

☐ 1–2 years

☐ 3–4 years

☐ 5–6 years

☐ More than 6 years

Which package managers do you primarily use?*

☐ None

☐ npm

☐ Yarn

☐ Yarn PnP

☐ pnpm

☐ Deno

☐ Bun

☐ Other, please specify:: _____

Which monorepo tools do you regularly use?*

- ☐ None
 - ☐ Turborepo
 - ☐ npm workspaces
 - ☐ Yarn workspaces
 - ☐ pnpm
 - ☐ Nx
 - ☐ Lerna
 - ☐ Other, please specify: _____
-

Kotlin (primary)

The following questions are about Kotlin development.

How long have you been using Kotlin?*

- ☐ Less than 1 month
- ☐ From 1 to less than 3 months
- ☐ From 3 to less than 6 months
- ☐ From 6 to less than 12 months
- ☐ From 1 to less than 2 years
- ☐ From 2 to less than 4 years
- ☐ 4 years or more

How do you mainly use Kotlin?*

- ☐ In production code

- ☐ In not-yet-released projects
- ☐ In pet projects
- ☐ To test production code
- ☐ I am still learning Kotlin
- ☐ I teach Kotlin
- ☐ Other, please specify:: _____

Logic: Hidden unless: QUESTION NOT FOUND! is one of the following answers [NO OPTIONS SET]

Which types of Kotlin projects are you currently working on?*

- ☐ Android
- ☐ iOS
- ☐ Desktop (JVM-based)
- ☐ Backend (JVM-based)
- ☐ Web (JS-based)
- ☐ Web (Wasm-based)
- ☐ Script
- ☐ Multiplatform
- ☐ Data science
- ☐ HarmonyOS
- ☐ Other, please specify:: _____

What was your primary programming language before you switched to Kotlin?*

- ☐ Kotlin is my first programming language
- ☐ Java
- ☐ JavaScript / TypeScript
- ☐ C / C++
- ☐ C#
- ☐ PHP
- ☐ Ruby

- ☐ Scala
- ☐ Go
- ☐ Groovy
- ☐ Python
- ☐ Swift
- ☐ Other, please specify:: _____

Which IDE do you use the most for Kotlin development?*

- ☐ IntelliJ IDEA Community Edition
- ☐ IntelliJ IDEA Ultimate
- ☐ Android Studio
- ☐ Fleet
- ☐ Eclipse
- ☐ Visual Studio Code
- ☐ Other, please specify:: _____

Which build system do you use the most for Kotlin development?*

- ☐ None
- ☐ Gradle (with Kotlin script)
- ☐ Gradle (with Groovy)
- ☐ JPS
- ☐ Maven
- ☐ Bazel
- ☐ Ant
- ☐ Amper
- ☐ Other, please specify:: _____

Which JetBrains Kotlin libraries and tools do you currently use?*

- ☐ None

- ☐ kotlin-test
- ☐ kotlinx.coroutines
- ☐ kotlinx.serialization
- ☐ kotlinx.collections.immutable
- ☐ kotlinx.datetime
- ☐ kotlin-dataframe
- ☐ kotlinx-Lincheck
- ☐ kotlinx-io
- ☐ kotlinx-benchmark
- ☐ kotlinx-kover
- ☐ kotlinx-atomicfu
- ☐ kotlinx-browser
- ☐ kotlin-wrappers
- ☐ kotlinx.html
- ☐ Compose Multiplatform
- ☐ Dokka
- ☐ Dukat
- ☐ Exposed
- ☐ Ktor
- ☐ Kotless
- ☐ Other, please specify:: _____

Which Kotlin compiler plugins do you currently use, if any?*

- ☐ None
- ☐ kapt
- ☐ KSP
- ☐ Lombok
- ☐ Parcelize
- ☐ All-open
- ☐ No-arg
- ☐ SAM-with-receiver

☐ Other, please specify:: _____

Go (primary, 10 of 15 q shown)

The following questions are about Go development.

How long have you been using Go?*

- ☐ Less than 1 year
- ☐ From 1 year to less than 2 years
- ☐ From 2 years to less than 4 years
- ☐ From 4 years to less than 10 years
- ☐ 10 years or more

Which types of projects do you use Go for?*

- ☐ Work
- ☐ Personal / Side projects
- ☐ Hobby
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which tasks do you usually use Go for?*

- ☐ Web service development (as a backend developer)
- ☐ Web service development (as a full-stack developer)
- ☐ Infrastructure platform development: Kubernetes controllers and extensions development
- ☐ Infrastructure platform development: serverless architecture development (AWS lambdas etc.)

☐ Infrastructure platform development: other activities (please specify):

☐ Deployment and configuration management (scripts, pipeline automation, monitoring)

☐ Development of CLI utilities and small tools

☐ Development of libraries and frameworks

☐ Data processing

☐ Deploying and managing AI models

☐ Other, please specify:: _____

How often do you perform the following tasks with Go? *

| | 0%– 20% | 21%– 40% | 41%– 60% | 61%– 80% | 81%– 100% |
|---|--------------------|---------------------|---------------------|---------------------|----------------------|
| Web service development (as a backend developer) | () | () | () | () | () |
| Web service development (as a full-stack developer) | () | () | () | () | () |
| Infrastructure platform development: Kubernetes controllers and extensions development | () | () | () | () | () |
| Infrastructure platform development: serverless architecture development | () | () | () | () | () |

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| (AWS lambdas etc.) | | | | | |
| Infrastructure platform development: other activities | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Deployment and configuration management (scripts, pipeline automation, monitoring) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Development of CLI utilities and small tools | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Development of libraries and frameworks | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Data processing | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Deploying and managing AI models | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Which template engines do you use for Go development, if any?*

☐ None

☐ text / template

☐ html / template

- ☐ Plush
- ☐ pongo2
- ☐ templ
- ☐ gomponents
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which IDEs or editors do you use for Go development?*

- ☐ Visual Studio Code
- ☐ Vim
- ☐ Neovim
- ☐ GoLand
- ☐ IntelliJ IDEA
- ☐ Atom
- ☐ Sublime Text
- ☐ Visual Studio
- ☐ Emacs
- ☐ Zed
- ☐ Cursor
- ☐ Windsurf
- ☐ Other, please specify:: _____

Which languages do you use along with Go in a single project?*

- ☐ None
- ☐ C
- ☐ C++
- ☐ Python
- ☐ Rust
- ☐ JavaScript

☐ TypeScript

☐ Other, please specify: _____

Which Go web frameworks do you regularly use, if any?*

☐ None

☐ Buffalo

☐ Gin

☐ Echo

☐ Beego

☐ Net/HTTP

☐ gorilla/mux

☐ go-chi/chi

☐ Fiber

☐ Revel

☐ Other, please specify: _____

Which testing frameworks do you regularly use, if any?*

☐ I don't write unit tests for Go

☐ I write unit tests but don't use any frameworks

☐ Godog

☐ Testify

☐ Ginkgo

☐ Gomega

☐ GoConvey

☐ GoMock

☐ go-sqlmock

☐ Other, please specify: _____

How many external dependencies do you have in your projects?*

- ☐ Fewer than 5
- ☐ 5–20
- ☐ 21 or more
- ☐ I'm not sure

What is the size of the codebase you are working with in your IDE or editor?*

- ☐ Fewer than 50 files
- ☐ 51–100 files
- ☐ 101–300 files
- ☐ 301–1,000 files
- ☐ 1,001–5,000 files
- ☐ 5,001–10,000 files
- ☐ More than 10,000 files
- ☐ I'm not sure

Which build systems do you regularly use, if any?*

- ☐ Go build
- ☐ Bazel
- ☐ Makefile
- ☐ Gradle
- ☐ Other, please specify:: _____
- ☐ None

Validation: Max. answers = 3 (*if answered*)

Logic: Show/hide trigger exists.

What challenges do you personally face using Go today? Select up to 3.*

- ☐ Learning how to write Go effectively
- ☐ The verbosity of error handling

- ☐ Missing libraries and frameworks in the Go ecosystem; please specify the libraries or frameworks:: _____
 - ☐ Missing features in Go's type system
 - ☐ Generics being too limited for my needs
 - ☐ Working with multiple Go modules or Go workspaces
 - ☐ Learning how to use Go tools effectively
 - ☐ Recalling how to do something in Go that I haven't done in a while
 - ☐ Insufficient examples in third-party modules
 - ☐ Other, please specify:: _____
 - ☐ I don't face any challenges using Go
-

Go2

Logic: Hidden unless: #127 Question "Which IDEs or editors do you use for Go development?"

Which IDE or editor do you use the most for Go development?*

- ☐ Visual Studio Code
- ☐ Vim
- ☐ Neovim
- ☐ GoLand
- ☐ IntelliJ IDEA
- ☐ Atom
- ☐ Sublime Text
- ☐ Visual Studio
- ☐ Emacs
- ☐ Zed
- ☐ Cursor
- ☐ Windsurf
- ☐ Other, please specify:: _____

PHP (primary, 7 of 10 q shown)

The following questions are about PHP development.

How long have you been using PHP?*

- ☐ Less than 6 months
- ☐ From 6 months to less than 1 year
- ☐ From 1 year to less than 2 years
- ☐ From 2 years to less than 4 years
- ☐ More than 4 years

Which versions of PHP do you regularly use?*

- ☐ I'm not sure
- ☐ PHP 8.4
- ☐ PHP 8.3
- ☐ PHP 8.2
- ☐ PHP 8.1
- ☐ PHP 8.0
- ☐ PHP 7.4
- ☐ PHP 7.3
- ☐ PHP 7.2
- ☐ PHP 7.1
- ☐ PHP 7.0
- ☐ PHP 5.6 or older
- ☐ Other, please specify:: _____

Which PHP development environments do you regularly use?*

- ☐ Local
- ☐ Remote (SFTP, SSH, remote desktop, etc.)
- ☐ Virtualized (Vagrant, Otto, etc.)
- ☐ Containerized (Docker, Rocket, etc.)
- ☐ Other, please specify:: _____

How do you usually debug PHP code?*

- ☐ Using a debugger (e.g. Xdebug)
- ☐ By dumping values (var_dump(), die(), dd(), dump(), ray(), etc.)
- ☐ Other, please specify:: _____

Which PHP frameworks and CMSs do you regularly use, if any?*

- ☐ None
- ☐ Symfony
- ☐ Drupal
- ☐ WordPress
- ☐ Magento
- ☐ Laravel
- ☐ Joomla!
- ☐ Yii
- ☐ CakePHP
- ☐ CodeIgniter
- ☐ Other, please specify:: _____

How do you run your PHP applications in production?*

- ☐ Server or virtual machine (DigitalOcean, Linode, etc.)
- ☐ Shared hosting

- ☐ Platform as a service (Heroku, Platform.sh, DigitalOcean App Platform, etc.)
- ☐ Serverless (AWS Lambda, DigitalOcean Functions, Azure Functions, GCP Cloud Functions, etc.)
- ☐ Laravel Cloud
- ☐ I'm not sure
- ☐ Other, please specify:: _____

Which editor or IDE do you use the most for PHP development?*

- ☐ Notepad++
- ☐ PhpStorm
- ☐ Sublime Text
- ☐ Vim
- ☐ Visual Studio Code
- ☐ Windsurf
- ☐ Neovim
- ☐ Cursor
- ☐ IntelliJ IDEA Ultimate with the PHP plugin
- ☐ Other, please specify:: _____

Which testing frameworks do you regularly use, if any?*

- ☐ I don't write tests for PHP
- ☐ I write tests but don't use any frameworks
- ☐ PHPUnit
- ☐ Behat
- ☐ phpspec
- ☐ Codeception
- ☐ Pest
- ☐ SimpleTest
- ☐ Infection
- ☐ Other, please specify:: _____

Which additional code quality tools do you regularly use, if any?*

- ☐ None
- ☐ Php Inspections (EA Extended)
- ☐ PHP_CodeSniffer
- ☐ PHP CS Fixer
- ☐ PHPMD
- ☐ PHPStan
- ☐ Psalm
- ☐ Phan
- ☐ Rector
- ☐ PHP Insights
- ☐ Other, please specify:: _____

Validation: Max. answers = 3 (*if answered*)

What are your top three PHP feature requests?*

- ☐ ADTs (algebraic data types)
- ☐ Property accessors (get/set as in C#)
- ☐ Generics
- ☐ Pattern matching
- ☐ Scalar objects
- ☐ Typed arrays (int[], string[], etc.)
- ☐ Native async support
- ☐ Performance
- ☐ Short closure improvements
- ☐ Immutable objects
- ☐ Package declarations
- ☐ Standardized core library functions
- ☐ Static class initialization
- ☐ Other, please specify:: _____

C (primary)

The following questions are about C development.

Which C standard(s) do you regularly use?*

☐ C99

☐ C11

☐ C17

☐ C23

☐ Embedded C

☐ I'm not sure

☐ Other, please specify:: _____

Which IDE or editor do you use the most for C development?*

☐ Visual Studio

☐ Visual Studio Code

☐ Eclipse CDT

☐ IAR Embedded Workbench

☐ Keil μ Vision

☐ Qt Creator

☐ CLion

☐ Xcode

☐ Cursor

☐ Zed

☐ Sublime Text

☐ Vi / Vim

- ☐ Emacs
- ☐ KDevelop
- ☐ Code::Blocks
- ☐ Other, please specify:: _____

In the next 12 months, which of the following languages, if any, do you plan to migrate any of your existing C code to?*

- ☐ No, I don't plan to migrate any of my existing C code
- ☐ C++
- ☐ Rust
- ☐ Python
- ☐ Go
- ☐ C#
- ☐ Java
- ☐ Other, please specify:: _____

Which unit testing frameworks do you regularly use, if any?*

- ☐ I don't write any tests
- ☐ I don't write unit tests, but I do other kinds of testing (performance, regression, etc.)
- ☐ I write unit tests but don't use any frameworks
- ☐ Catch2
- ☐ Boost.Test
- ☐ GoogleTest
- ☐ doctest
- ☐ CppUnit
- ☐ CppUTest
- ☐ CUnit
- ☐ Other, please specify:: _____

Which project models or build systems do you regularly use, if any?*

- ☐ None
- ☐ Visual Studio projects
- ☐ Xcode projects
- ☐ Autotools
- ☐ Makefiles
- ☐ CMake
- ☐ qmake
- ☐ SCons
- ☐ Boost.Build
- ☐ Bazel
- ☐ Ninja
- ☐ Meson
- ☐ Custom build system
- ☐ Other, please specify:: _____

Which dependency manager(s) do you use in your projects?*

- ☐ None
- ☐ build2
- ☐ Conan
- ☐ Hunter
- ☐ NuGet
- ☐ vcpkg
- ☐ I use a system package manager
- ☐ Other, please specify:: _____

Which compilers do you regularly use?*

- ☐ GCC
- ☐ Clang
- ☐ clang-cl (from Visual Studio)
- ☐ Keil

- ☐ IAR
- ☐ TASKING
- ☐ Green Hills
- ☐ Wind River Diab Compiler
- ☐ MSVC
- ☐ Intel C++ Compiler Classic
- ☐ Intel LLVM (oneAPI DPC++/C++ Compiler)
- ☐ Custom
- ☐ Other, please specify:: _____

Which standards or guidelines, if any, do you follow when coding in C?*

- ☐ None
- ☐ AUTOSAR
- ☐ SEI CERT C
- ☐ Clang-Tidy
- ☐ ClangFormat
- ☐ ISO/IEC 27001
- ☐ MISRA C
- ☐ Other, please specify:: _____

C++ (primary, 12 of 23)

The following questions are about C++ development.

Logic: Show/hide trigger exists.

Which C++ standard(s) do you regularly use?*

- ☐ C++98 / C++03
- ☐ C++11
- ☐ C++14
- ☐ C++17
- ☐ C++20
- ☐ C++23
- ☐ C++26
- ☐ I'm not sure

Logic: Hidden unless: #155 Question "Which C++ standard(s) do you regularly use?" is one of the following answers ("C++98 / C++03")

Do you plan to move from C++98 or C++03 to another C++ standard in the next 12 months? If so, to which one?*

- ☐ No, I don't plan to move to another C++ standard
- ☐ C++11
- ☐ C++14
- ☐ C++17
- ☐ C++20
- ☐ C++23
- ☐ C++26

Logic: Hidden unless: #155 Question "Which C++ standard(s) do you regularly use?" is one of the following answers ("C++11")

Do you plan to move from C++11 to another C++ standard in the next 12 months? If so, to which one?*

- ☐ No, I don't plan to move to another C++ standard
- ☐ C++98 / C++03
- ☐ C++14
- ☐ C++17
- ☐ C++20

- ☐ C++23
- ☐ C++26

Logic: Hidden unless: #155 Question "Which C++ standard(s) do you regularly use?" is one of the following answers ("C++14")

Do you plan to move from C++14 to another C++ standard in the next 12 months? If so, to which one?*

- ☐ No, I don't plan to move to another C++ standard
- ☐ C++98 / C++03
- ☐ C++11
- ☐ C++17
- ☐ C++20
- ☐ C++23
- ☐ C++26

Logic: Hidden unless: #155 Question "Which C++ standard(s) do you regularly use?" is one of the following answers ("C++17")

Do you plan to move from C++17 to another C++ standard in the next 12 months? If so, to which one?*

- ☐ No, I don't plan to move to another C++ standard
- ☐ C++98 / C++03
- ☐ C++11
- ☐ C++14
- ☐ C++20
- ☐ C++23
- ☐ C++26

Logic: Hidden unless: #155 Question "Which C++ standard(s) do you regularly use?" is one of the following answers ("C++20")

Do you plan to move from C++20 to another C++ standard in the next 12 months? If so, to which one?*

- ☐ No, I don't plan to move to another C++ standard
- ☐ C++98 / C++03
- ☐ C++11
- ☐ C++14
- ☐ C++20
- ☐ C++23
- ☐ C++26

Logic: Hidden unless: (((#156 Question "Do you plan to move from C++98 or C++03 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("No, I don't plan to move to another C++ standard") OR #157 Question "Do you plan to move from C++11 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("No, I don't plan to move to another C++ standard")) OR #158 Question "Do you plan to move from C++14 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("No, I don't plan to move to another C++ standard")) OR #159 Question "Do you plan to move from C++17 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("No, I don't plan to move to another C++ standard")) OR #160 Question "Do you plan to move from C++20 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("No, I don't plan to move to another C++ standard"))

Why are you staying with the C++ standard you're currently using?*

- ☐ The C++ standard I'm using is enough for my tasks
- ☐ My employer doesn't allow me to use newer standards
- ☐ We use compilers or libraries that rely on an older C++ standard, so it's impossible to move to a newer one
- ☐ Moving to a newer standard would take time and resources that we currently cannot afford
- ☐ Other, please specify: _____

Logic: Hidden unless: (((#156 Question "Do you plan to move from C++98 or C++03 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("C++20") OR #157 Question "Do you plan to move from C++11 to another C++

standard in the next 12 months? If so, to which one?" is one of the following answers ("C++20")) OR #158 Question "Do you plan to move from C++14 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("C++20")) OR #159 Question "Do you plan to move from C++17 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("C++20")) OR #160 Question "Do you plan to move from C++20 to another C++ standard in the next 12 months? If so, to which one?" is one of the following answers ("C++20"))

Is your current project planning to use any of the following features of modern C++ standards in the next 12 months?*

☐ Concepts (template constraints, requirements, etc.)

☐ Coroutines (co_await, etc.)

☐ Modules (export, import, etc.)

☐ Reflection

☐ Executors

☐ Contracts

☐ None of the above

☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which IDE or editor do you use the most for C++ development?*

☐ Visual Studio

☐ Visual Studio Code

☐ NetBeans

☐ Eclipse CDT

☐ Qt Creator

☐ CLion

☐ Android Studio

☐ Xcode

☐ Cursor

☐ Zed

☐ Sublime Text

☐ Rider

- ☐ Vi / Vim
- ☐ Emacs
- ☐ KDevelop
- ☐ Other, please specify:: _____

Logic: Hidden unless: #163 Question "Which IDE or editor do you use the most for C++ development?" is one of the following answers ("Visual Studio")

Which plugins for Visual Studio do you use, if any?*

- ☐ None
- ☐ CodeMaid
- ☐ CodeRush
- ☐ Roslynator
- ☐ ReSharper
- ☐ ReSharper C++
- ☐ Visual Assist
- ☐ AWS Toolkit for Visual Studio
- ☐ Other, please specify:: _____

Which unit testing frameworks do you regularly use, if any?*

- ☐ I don't write unit tests for C++
- ☐ I write unit tests but don't use any frameworks
- ☐ Boost.Test
- ☐ GoogleTest
- ☐ CppUnit
- ☐ CppUTest
- ☐ Catch2
- ☐ doctest
- ☐ Other, please specify:: _____

Which libraries do you use in your C++ projects, if any?*

- ☐ Boost
- ☐ Qt
- ☐ Asio
- ☐ OpenMP
- ☐ TensorFlow
- ☐ OpenCV
- ☐ libcurl
- ☐ bzip2
- ☐ Folly
- ☐ OpenSSL
- ☐ {fmt}
- ☐ Abseil
- ☐ Dlib
- ☐ webview
- ☐ POCO
- ☐ zlib
- ☐ Eigen
- ☐ Other, please specify:: _____
- ☐ None of the above

What do you use to manage your first-party and third-party libraries in C++?*

- ☐ I use a system package manager (APT, Homebrew, etc.)
- ☐ The library source code is part of my build
- ☐ I compile the libraries separately using their instructions
- ☐ I download prebuilt libraries from the internet
- ☐ build2
- ☐ Conan
- ☐ Hunter
- ☐ NuGet
- ☐ vcpkg

☐ I do not have any dependencies

☐ Other, please specify:: _____

Which project models or build systems do you regularly use, if any?*

☐ None

☐ Visual Studio projects

☐ Xcode projects

☐ Autotools

☐ Makefiles

☐ CMake

☐ Gradle

☐ qmake

☐ SCons

☐ Meson

☐ Ninja

☐ Boost.Build

☐ Bazel

☐ Custom build system

☐ Other, please specify:: _____

Which compilers do you regularly use?*

☐ GCC

☐ Clang

☐ clang-cl (from Visual Studio)

☐ Keil

☐ IAR

☐ TASKING

☐ Green Hills

☐ Wind River Diab Compiler

☐ MSVC

- ☐ Intel C++ Compiler Classic
- ☐ Intel LLVM (oneAPI DPC++/C++ Compiler)
- ☐ Custom
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which other programming languages, if any, do you use in your projects along with C++?*

- ☐ None
- ☐ Python
- ☐ C
- ☐ JavaScript
- ☐ Java
- ☐ HTML / CSS
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
- ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
- ☐ C#
- ☐ PHP
- ☐ Rust
- ☐ Go
- ☐ Assembly
- ☐ Kotlin
- ☐ TypeScript
- ☐ MATLAB
- ☐ Swift
- ☐ Lua
- ☐ R
- ☐ Haskell
- ☐ Ruby
- ☐ Objective-C
- ☐ Dart
- ☐ Visual Basic

- ☐ Perl
- ☐ Groovy
- ☐ Other, please specify:: _____

Logic: Hidden unless: #170 Question "Which other programming languages, if any, do you use in your projects along with C++?" is one of the following answers ("Rust")

Do you plan to migrate any part of your C++ code to Rust in the next 12 months?*

- ☐ Yes
- ☐ No

Which of the following tools do you or your team use to enforce code guidelines, run code analysis, or ensure code quality in other ways?*

- ☐ None
- ☐ Clang-analyzer / Clang Static Analyzer
- ☐ ClangFormat
- ☐ Clang-Tidy
- ☐ Cppcheck
- ☐ Coverity
- ☐ Cpplint
- ☐ PVS-Studio
- ☐ Klocwork
- ☐ PC-lint / FlexeLint
- ☐ Parasoft C/C++test
- ☐ QA-C++
- ☐ Polyspace
- ☐ Flawfinder
- ☐ Stack
- ☐ SonarLint / SonarQube / SonarCloud
- ☐ Tools or features provided by my IDE (Visual Studio, ReSharper C++, CLion, etc.)
- ☐ Other, please specify:: _____

How do you or your team run code analysis?*

- ☐ We never run code analysis
- ☐ When compiling, by enabling necessary compiler checks
- ☐ Via the third-party static code analyzers running on developers' machines
- ☐ Code analysis is integrated into our CI/CD pipeline
- ☐ We use dynamic analysis (like sanitizers, Valgrind, or other CPU / memory profiling tools)
- ☐ Other, please specify:: _____

Which tools or techniques do you use to optimize your C++ project build times, if any?*

- ☐ None
- ☐ Optimizing header includes and dependencies
- ☐ Precompiled headers
- ☐ Modules
- ☐ Incremental linking
- ☐ Compiler cache (Ccache, Sccache)
- ☐ Parallelizing the compilation of source files
- ☐ Unity builds
- ☐ Incredibuild
- ☐ Electric Cloud
- ☐ Other, please specify:: _____

Which of the following C++ conferences did you attend at least twice in the past five years, whether in person or online?*

- ☐ None
- ☐ ACCU
- ☐ CppCon
- ☐ C++Now
- ☐ C++ on Sea
- ☐ CPPP

☐ CPP-Summit (China)

☐ Core C++

☐ CppNorth

☐ code::dive

☐ emBO++

☐ LLVM Developers' Meeting

☐ Meeting C++

☐ It++ (Italian C++ Conference)

☐ NDC TechTown

☐ Other, please specify: _____

Do you attend local C++ meetups often or at least from time to time?*

☐ Yes

☐ No, there are no meetups in my area that I'm aware of

☐ No, I'm not interested in attending such meetups

Which standards or guidelines, if any, do you follow when coding in C++?*

☐ None

☐ AUTOSAR

☐ SEI CERT C++

☐ Clang-Tidy

☐ ClangFormat

☐ Google C++ Style Guide

☐ ISO/IEC 27001

☐ JSF AV C++

☐ MISRA C++

☐ Other, please specify: _____

NET - (C#, F# primary, 10 q of 22 shown)

The following questions are about .NET development.

Logic: Show/hide trigger exists.

Which programming language(s) do you use in your .NET projects?*

- ☐ C#
- ☐ F#
- ☐ VB.NET
- ☐ TypeScript
- ☐ JavaScript
- ☐ HTML / CSS
- ☐ Python
- ☐ Other, please specify: _____

Logic: Hidden unless: #178 Question "Which programming language(s) do you use in your .NET projects?" is one of the following answers ("C#")

Which version(s) of C# do you regularly use?*

- ☐ C# 13 (params collections, new lock type, partial properties, overload resolution priority)
- ☐ C# 12 (primary constructors, collection expressions, default lambda parameters, type aliases)
- ☐ C# 11 (raw string literals, generic attributes, required members, UTF-8 string literals)
- ☐ C# 10 (file-scoped namespaces, global usings, record structs, extended property patterns)
- ☐ C# 9 (records, target-typed new expressions, top-level statements)
- ☐ C# 8 (static local functions, nullable reference types, default interface methods)
- ☐ C# 7 (pattern matching, local functions, ref locals and returns, out variables)
- ☐ C# 6 (? and nameof operators, static imports, exception filters, Roslyn)
- ☐ C# 5 or older

☐ I'm not sure

Logic: Show/hide trigger exists. Hidden unless: #178 Question "Which programming language(s) do you use in your .NET projects?" is one of the following answers ("C#")

Which IDE or editor do you use the most for C# development?*

- ☐ Visual Studio
- ☐ Visual Studio for Mac
- ☐ Visual Studio Code
- ☐ JetBrains Rider
- ☐ Cursor
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which types of projects do you work on?*

- ☐ Web (ASP.NET, JS/TS with .NET APIs)
- ☐ Desktop (WPF, WinForms, UWP)
- ☐ Game development with Unity
- ☐ Game development with Unreal Engine
- ☐ Game development with Godot
- ☐ Multiplatform apps (MAUI, Avalonia, Uno Platform)
- ☐ Libraries
- ☐ Backend services (microservices, background tasks, custom APIs)
- ☐ Cloud / Serverless (Azure Functions, AWS Lambda)
- ☐ Console apps, utilities, or other similar services
- ☐ AI and ML applications
- ☐ Other, please specify:: _____

Which runtimes do you regularly use?*

- ☐ I'm not sure
- ☐ .NET Framework
- ☐ .NET 9
- ☐ .NET 8
- ☐ .NET 7
- ☐ .NET 6
- ☐ .NET 5 and older (including .NET Core 3.1 and older)
- ☐ Mono

Logic: Hidden unless: #178 Question "Which programming language(s) do you use in your .NET projects?" is one of the following answers ("F#")

Which IDE or editor do you use the most for F# development?*

- ☐ Visual Studio
- ☐ Visual Studio Code
- ☐ Vim
- ☐ JetBrains Rider
- ☐ Other, please specify:: _____

Logic: Hidden unless: #178 Question "Which programming language(s) do you use in your .NET projects?" is one of the following answers ("F#")

Which libraries or tools do you use for F# development, if any?*

- ☐ None
- ☐ Fable
- ☐ Giraffe
- ☐ Saturn
- ☐ FAKE
- ☐ Fantomas
- ☐ Paket
- ☐ FParsec

☐ Falco

☐ Other, please specify: _____

Logic: Hidden unless: #181 Question "Which types of projects do you work on?" is one of the following answers ("Web (ASP.NET, JS/TS with .NET APIs)", "Libraries", "Backend services (microservices, background tasks, custom APIs)", "Other, please specify:")

Which technologies or frameworks for web development do you use, if any?*

☐ I don't develop for the web

☐ ASP.NET

☐ ASP.NET Core

☐ Blazor

☐ Blazor WebAssembly

☐ React

☐ Vue

☐ Angular

☐ Svelte

☐ gRPC

☐ Minimal API

☐ MVC

☐ Razor Pages

☐ SignalR

☐ Web API

☐ Other, please specify: _____

Logic: Hidden unless: #181 Question "Which types of projects do you work on?" is one of the following answers ("Web (ASP.NET, JS/TS with .NET APIs)", "Libraries", "Backend services (microservices, background tasks, custom APIs)", "Other, please specify:")

If you develop ASP.NET Core applications, how would you best describe your solution?*

☐ Full stack with server-rendered UI (Razor)

☐ Client-side app with Blazor

- ☐ JavaScript frontend with ASP.NET Core APIs
- ☐ APIs only
- ☐ I don't develop ASP.NET Core applications
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which technologies or frameworks do you use, if any?*

- ☐ None
- ☐ ASP.NET
- ☐ ASP.NET Core
- ☐ Windows Presentation Foundation (WPF)
- ☐ Windows Forms (Classic)
- ☐ Windows Forms (.NET Core)
- ☐ Windows Communication Foundation (WCF)
- ☐ Entity Framework Core
- ☐ Entity Framework 6
- ☐ Unity
- ☐ Godot
- ☐ Unreal Engine
- ☐ .NET MAUI
- ☐ Xamarin
- ☐ Avalonia
- ☐ Uno Platform
- ☐ Flutter
- ☐ UWP
- ☐ .NET Aspire
- ☐ Azure
- ☐ AWS
- ☐ Other, please specify:: _____

Logic: Hidden unless: #187 Question "Which technologies or frameworks do you use, if any?" is one of the following answers ("Windows Presentation Foundation (WPF)", "Windows Forms (Classic)", "Windows Forms (.NET Core)", "Avalonia", "UWP")

Do you use any third-party UI frameworks?*

☐ I don't use any third-party UI frameworks

☐ DevExpress

☐ Telerik

☐ Syncfusion

☐ ComponentOne

☐ Infragistics

☐ Other, please specify:: _____

Logic: Hidden unless: (#180 Question "Which IDE or editor do you use the most for C# development?" is one of the following answers ("Visual Studio") OR #183 Question "Which IDE or editor do you use the most for F# development?" is one of the following answers ("Visual Studio"))

Which extension(s) do you use with Visual Studio?*

☐ None

☐ AWS Toolkit for Visual Studio

☐ CodeMaid

☐ CodeRush

☐ GitHub Copilot

☐ Ionide

☐ PostSharp

☐ ReSharper

☐ ReSharper C++

☐ Roslynator

☐ Visual Assist

☐ SonarLint

☐ NCrunch

☐ Other, please specify:: _____

Logic: Hidden unless: #180 Question "Which IDE or editor do you use the most for C# development?"

Which operating system(s) does your .NET development environment use?*

- ☐ Windows (ARM64 chip)
- ☐ Windows (x64 chip)
- ☐ Linux
- ☐ macOS (Intel processor)
- ☐ macOS (Apple silicon chip)
- ☐ Other, please specify:: _____

Logic: Hidden unless: (#180 Question "Which IDE or editor do you use the most for C# development?" is one of the following answers ("Visual Studio Code") OR #183 Question "Which IDE or editor do you use the most for F# development?" is one of the following answers ("Visual Studio Code"))

Which extensions for Visual Studio Code do you use, if any?*

- ☐ None
- ☐ .NET Core Tools
- ☐ .NET Core Test Explorer
- ☐ .NET MAUI
- ☐ ASP.NET Helper
- ☐ AWS Toolkit for Visual Studio Code
- ☐ C# Dev Kit
- ☐ C# for Visual Studio Code (powered by OmniSharp)
- ☐ C# Extensions
- ☐ C# XML Documentation Comments
- ☐ Code Runner
- ☐ Code Spell Checker
- ☐ ESLint
- ☐ IntelliCode for C# Dev Kit

- ☐ MSBuild project tools
- ☐ NuGet Package Manager
- ☐ TODO Highlight
- ☐ TSLint
- ☐ Unity Tools
- ☐ Version Lens
- ☐ Ionide
- ☐ GitHub Copilot
- ☐ Other, please specify:: _____

Logic: Hidden unless: (#180 Question "Which IDE or editor do you use the most for C# development?" is one of the following answers ("Visual Studio") OR #183 Question "Which IDE or editor do you use the most for F# development?" is one of the following answers ("Visual Studio"))

Which version of Visual Studio do you primarily use?*

- ☐ VS 2022 Preview
- ☐ VS 2022
- ☐ VS 2019
- ☐ VS 2017
- ☐ VS 2015
- ☐ VS 2013
- ☐ VS 2012
- ☐ An older version

Which unit testing frameworks do you regularly use, if any?*

- ☐ I don't write unit tests for C#
- ☐ I write unit tests but don't use any frameworks
- ☐ NUnit
- ☐ xUnit.net
- ☐ MSTest / Visual Studio unit testing framework

- ☐ MSTestV2
- ☐ bUnit
- ☐ MbUnit
- ☐ Playwright
- ☐ Unity Test Framework
- ☐ Expecto
- ☐ Fluent Assertions
- ☐ dotMemory Unit
- ☐ TUnit
- ☐ Other, please specify:: _____

Do you use SQL Database Projects (.sqlproj) or similar workflows in your development process?*

- ☐ Yes, I actively use SQL Database Projects (.sqlproj)
- ☐ I work with live databases directly but not with SQL Database Projects
- ☐ No, I do not work with databases in my projects
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which performance or diagnostic tools do you regularly use, if any?*

- ☐ None
- ☐ ANTS Memory Profiler
- ☐ ANTS Performance Profiler
- ☐ dotMemory
- ☐ dotTrace
- ☐ Dynamic program analysis (DPA) in ReSharper or Rider
- ☐ Intel VTune Profiler
- ☐ PerfView
- ☐ Superluminal
- ☐ Unity Profiler

- ☐ Visual Studio's built-in diagnostic tools
- ☐ Visual Studio's built-in performance profiler
- ☐ Windows Performance Toolkit
- ☐ BenchmarkDotNet
- ☐ Verify
- ☐ WinDbg
- ☐ Other, please specify: _____

Logic: Hidden unless: #197 Question "Which performance or diagnostic tools do you regularly use, if any?" is one of the following answers ("ANTS Memory Profiler","ANTS Performance Profiler","dotMemory","dotTrace","Dynamic program analysis (DPA) in ReSharper or Rider","Intel VTune Profiler","PerfView","Superluminal","Unity Profiler","Visual Studio's built-in diagnostic tools","Visual Studio's built-in performance profiler","Windows Performance Toolkit","BenchmarkDotNet","Verify","WinDbg","Other, please specify:")

How often do you typically use profiling or diagnostics tools?*

- ☐ Constantly, it's an ongoing background process
- ☐ Regularly, each week or sprint to predict issues
- ☐ From time to time, whenever issues occur
- ☐ Other, please specify: _____

Logic: Hidden unless: #197 Question "Which performance or diagnostic tools do you regularly use, if any?" is one of the following answers ("ANTS Memory Profiler","ANTS Performance Profiler","dotMemory","dotTrace","Dynamic program analysis (DPA) in ReSharper or Rider","Intel VTune Profiler","PerfView","Superluminal","Unity Profiler","Visual Studio's built-in diagnostic tools","Visual Studio's built-in performance profiler","Windows Performance Toolkit","BenchmarkDotNet","Verify","WinDbg","Other, please specify:")

Who is responsible for profiling or diagnostics in your projects?*

- ☐ I am solely responsible
- ☐ A few other developers and I share the responsibility
- ☐ Every developer in the project is responsible

☐ Nobody in the project or team is responsible

☐ Other, please specify:: _____

Swift & Objective-C (13 of 17 q shown)

The following questions are about Swift development.

Do you plan to migrate to Swift 6 within the next year?*

☐ Yes, I'm planning to migrate within the next year

☐ No, I'm not planning to migrate within the next year

☐ I have already migrated to Swift 6

☐ I'm not sure

For which platforms do you develop?*

☐ iOS

☐ tvOS

☐ watchOS

☐ macOS

☐ visionOS

☐ Linux

☐ Other, please specify:: _____

☐ I don't develop for any of these platforms

Do you use Mac Catalyst to adapt your iOS applications to macOS?*

☐ Yes

☐ No, but I plan to in the next 12 months

☐ No, and I don't plan to in the next 12 months

Logic: Hidden unless: #30 Question "Which programming languages have you used in the last 12 months?" is one of the following answers ("Objective-C")

Does your Swift project contain Objective-C code?*

- ☐ Yes, but most of my codebase is in Swift
- ☐ Yes, most of my codebase is in Objective-C
- ☐ No

Does your project contain C++ code or C++ libraries?*

- ☐ Yes
- ☐ No

Logic: Show/hide trigger exists.

Do you write unit tests for your Swift code?*

- ☐ Yes
- ☐ No

Logic: Hidden unless: #205 Question "Do you write unit tests for your Swift code?" is one of the following answers ("Yes")

Which unit testing frameworks do you regularly use, if any?*

- ☐ XCTest
- ☐ Quick and Nimble
- ☐ Swift Testing
- ☐ Other, please specify: _____

Which mock or matcher frameworks do you use?*

- ☐ None
- ☐ OCMock
- ☐ OCMockito
- ☐ OCHamcrest
- ☐ Cuckoo
- ☐ Swift Hamcrest
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Do you perform UI tests in your project?*

- ☐ Yes
- ☐ No

Logic: Hidden unless: #208 Question "Do you perform UI tests in your project?" is one of the following answers ("Yes")

Which UI testing frameworks do you regularly use, if any?*

- ☐ XCTest
- ☐ KIF
- ☐ EarlGrey (EarlGrey 2.0)
- ☐ iOSSnapshotTestCase (FBSnapshotTestCase)
- ☐ SnapshotTesting
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which dependency manager(s) do you use, if any?*

- ☐ None
- ☐ CocoaPods
- ☐ Swift Package Manager (SwiftPM)
- ☐ Carthage
- ☐ Other, please specify:: _____

Logic: Hidden unless: #210 Question "Which dependency manager(s) do you use, if any?" is one of the following answers ("CocoaPods")

Are you actively replacing CocoaPods dependencies with SwiftPM packages?*

- ☐ Yes
- ☐ No, but I plan to in the next 12 months
- ☐ No, and I don't plan to in the next 12 months

Which combination of database engine and framework do you use?*

- ☐ None
- ☐ SQLite with my own wrapper
- ☐ Core Data
- ☐ Realm
- ☐ Firebase
- ☐ YapDatabase
- ☐ GRDB.swift
- ☐ SwiftData
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Do you use Swift to develop server-side projects?*

- ☐ Yes
- ☐ No

Logic: Hidden unless: #213 Question "Do you use Swift to develop server-side projects?" is one of the following answers ("Yes")

Which editor or IDE do you primarily use for server-side development with Swift?*

- ☐ Xcode
- ☐ Visual Studio Code (VS Code)
- ☐ Cursor
- ☐ Zed
- ☐ Other, please specify:: _____

Which UI technologies do you regularly use for your Swift code?*

- ☐ UIKit
- ☐ SwiftUI
- ☐ UIKit and SwiftUI
- ☐ Web technologies or hybrid apps (HTML, CSS)
- ☐ Other, please specify:: _____

Which community libraries do you use?*

- ☐ Alamofire
- ☐ Firebase
- ☐ Sentry
- ☐ RxSwift
- ☐ Other, please specify:: _____

Python (if primary. 5 out of 8 shown)

The following questions are about Python development.

Which version of Python do you use the most?*

- ☐ I'm not sure
- ☐ Python 3.14
- ☐ Python 3.13
- ☐ Python 3.12
- ☐ Python 3.11
- ☐ Python 3.10
- ☐ Python 3.9
- ☐ Python 3.8
- ☐ Python 3.7
- ☐ Python 3.6
- ☐ Python 3.0 – 3.5
- ☐ Python 2.x

Logic: Show/hide trigger exists.

What do you use Python for?*

- ☐ Computer graphics
- ☐ Data analysis
- ☐ Desktop development
- ☐ Software testing / Writing automated tests
- ☐ Embedded development
- ☐ Game development
- ☐ Machine learning development / AI engineering / ML Ops
- ☐ Mobile development
- ☐ Network programming
- ☐ Programming of web parsers / scrapers / crawlers
- ☐ Software prototyping

- ☐ Software testing / Writing automated tests
- ☐ System administration / Writing automation scripts / Infrastructure configuration (DevOps)
- ☐ Web development
- ☐ Other, please specify:: _____

Logic: Hidden unless: #218 Question "What do you use Python for?" is one of the following answers ("Computer graphics","Data analysis","Desktop development","Software testing / Writing automated tests","Embedded development","Game development","Machine learning development / AI engineering / ML Ops","Mobile development","Network programming","Programming of web parsers / scrapers / crawlers","Software prototyping","Software testing / Writing automated tests","System administration / Writing automation scripts / Infrastructure configuration (DevOps)","Web development")

Please specify the tasks you perform for your job and those that you undertake for your personal or side projects.

| | Work | Personal projects / hobby |
|--|--------------------------|---------------------------|
| Computer graphics | <input type="checkbox"/> | <input type="checkbox"/> |
| Data analysis | <input type="checkbox"/> | <input type="checkbox"/> |
| Desktop development | <input type="checkbox"/> | <input type="checkbox"/> |
| Software testing / Writing automated tests | <input type="checkbox"/> | <input type="checkbox"/> |
| Embedded development | <input type="checkbox"/> | <input type="checkbox"/> |
| Game development | <input type="checkbox"/> | <input type="checkbox"/> |

| | | |
|--|--------------------------|--------------------------|
| Machine learning development / AI engineering / ML Ops | <input type="checkbox"/> | <input type="checkbox"/> |
| Mobile development | <input type="checkbox"/> | <input type="checkbox"/> |
| Network programming | <input type="checkbox"/> | <input type="checkbox"/> |
| Programming of web parsers / scrapers / crawlers | <input type="checkbox"/> | <input type="checkbox"/> |
| Software prototyping | <input type="checkbox"/> | <input type="checkbox"/> |
| Software testing / Writing automated tests | <input type="checkbox"/> | <input type="checkbox"/> |
| System administration / Writing automation scripts / Infrastructure configuration (DevOps) | <input type="checkbox"/> | <input type="checkbox"/> |
| Web development | <input type="checkbox"/> | <input type="checkbox"/> |

What web frameworks / libraries do you use in addition to Python?*

- ☐ None
- ☐ FastAPI
- ☐ Django
- ☐ TurboGears
- ☐ web2py
- ☐ Bottle
- ☐ CherryPy
- ☐ Flask
- ☐ Hug
- ☐ Pyramid
- ☐ Tornado
- ☐ Falcon
- ☐ asyncio
- ☐ Other, please specify:: _____

What data science frameworks do you use in addition to Python?*

- ☐ None
- ☐ NumPy
- ☐ SciPy
- ☐ pandas
- ☐ MXNet
- ☐ Matplotlib
- ☐ Seaborn
- ☐ scikit-learn
- ☐ Keras
- ☐ TensorFlow
- ☐ PyTorch
- ☐ Theano
- ☐ NLTK
- ☐ Gensim
- ☐ Polars

- ☐ OpenCV
- ☐ XGBoost
- ☐ Other, please specify:: _____

Which other frameworks and libraries do you use with Python?*

- ☐ None
- ☐ Requests
- ☐ dbt
- ☐ HTTPX
- ☐ aiohttp
- ☐ PyQt
- ☐ PyGTK
- ☐ wxPython
- ☐ Pillow
- ☐ Tkinter
- ☐ Pygame
- ☐ Twisted
- ☐ asyncio
- ☐ Kivy
- ☐ Six
- ☐ Scrappy
- ☐ Other, please specify:: _____

Which other technologies do you use with Python?*

- ☐ None
- ☐ Sphinx
- ☐ Buildout
- ☐ Django ORM
- ☐ SQLAlchemy
- ☐ Other, please specify:: _____*

Which IDE or editor do you use the most for Python development?*

☐ PyCharm Professional Edition

☐ PyCharm Community Edition

☐ Visual Studio Code

☐ Sublime Text

☐ Vim / Neovim

☐ IntelliJ IDEA

☐ Atom

☐ Emacs

☐ Eclipse + PyDev

☐ Jupyter Notebook

☐ Notepad++

☐ Spyder

☐ IDLE

☐ DataSpell

☐ Datalore

☐ Cursor

☐ Other, please specify:: _____ *

Ruby - (primary, 15 q of 27 shown)

The following questions are about Ruby development.

Logic: Show/hide trigger exists.

What is the status of Ruby as a technology in your company or project?*

- ☐ We're NOT planning to rewrite any parts of our Ruby project(s) in another language
- ☐ We're planning to rewrite some parts of our Ruby project(s) in another language
- ☐ We're planning to completely rewrite our Ruby project(s) in another language
- ☐ We're actively rewriting our Ruby project(s) in another language

Logic: Hidden unless: #225 Question "What is the status of Ruby as a technology in your company or project?" is one of the following answers ("We're planning to rewrite some parts of our Ruby project(s) in another language", "We're planning to completely rewrite our Ruby project(s) in another language", "We're actively rewriting our Ruby project(s) in another language")

Which language(s) are you planning to choose as a replacement for Ruby? Please select all that apply.*

- ☐ Go
- ☐ Java
- ☐ JavaScript
- ☐ Python
- ☐ C/C++
- ☐ C#
- ☐ PHP
- ☐ Rust
- ☐ Kotlin
- ☐ Swift
- ☐ Scala
- ☐ TypeScript
- ☐ Other, please specify:: _____

Which editor or IDE do you primarily use for Ruby development?*

- ☐ RubyMine
- ☐ IntelliJ IDEA with the Ruby plugin
- ☐ Sublime Text
- ☐ Vim

- ☐ Neovim
- ☐ Emacs
- ☐ Visual Studio Code
- ☐ Zed
- ☐ Cursor
- ☐ Windsurf
- ☐ Other, please specify:: _____

Which additional editor or IDE do you use for Ruby development the most, if any?*

- ☐ I don't use additional editors or IDEs for Ruby
- ☐ RubyMine
- ☐ IntelliJ IDEA with the Ruby plugin
- ☐ Sublime Text
- ☐ Vim
- ☐ Emacs
- ☐ Visual Studio Code
- ☐ Zed
- ☐ Cursor
- ☐ Windsurf
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which versions of Ruby do you use the most?*

- ☐ Ruby 3.4
- ☐ Ruby 3.3
- ☐ Ruby 3.2
- ☐ Ruby 3.1
- ☐ Ruby 3.0
- ☐ Ruby 2.7

- ☐ Ruby 2.6
- ☐ Ruby 2.5
- ☐ Ruby 2.4
- ☐ Ruby 2.3 or earlier
- ☐ Other, please specify:: _____
- ☐ I'm not sure

Logic: Hidden unless: #229 Question "Which versions of Ruby do you use the most?" is one of the following answers ("Ruby 3.3","Ruby 3.2","Ruby 3.1","Ruby 3.0","Ruby 2.7","Ruby 2.6","Ruby 2.5","Ruby 2.4","Ruby 2.3 or earlier","Other, please specify:")

Do you plan to migrate to a newer version of Ruby in the next 12 months? If so, to which one?*

- ☐ No, I don't plan to move to a newer version of Ruby in the next 12 months
- ☐ Ruby 3.4
- ☐ Ruby 3.3
- ☐ Ruby 3.2
- ☐ Ruby 3.1
- ☐ Ruby 3.0
- ☐ Ruby 2.7 or earlier
- ☐ Other, please specify:: _____

Which tools do you use to manage different versions of Ruby?*

- ☐ None
- ☐ Ruby Version Manager (RVM)
- ☐ rbenv
- ☐ asdf
- ☐ chruby
- ☐ mise
- ☐ Docker
- ☐ Dev Containers

☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which gem management tools do you regularly use, if any?*

☐ None

☐ Bundler

☐ asdf

☐ chruby

☐ Ruby Version Manager (RVM)

☐ rbenv

☐ Docker

☐ Dev Containers

☐ Other, please specify:: _____

Logic: Hidden unless: #232 Question "Which gem management tools do you regularly use, if any?" is one of the following answers ("Bundler","asdf","chruby","Ruby Version Manager (RVM)","rbenv","Docker","Dev Containers","Other, please specify:")

How many gems have you personally authored, if any?*

☐ None

☐ 1–5

☐ 6–10

☐ 11–30

☐ More than 30

Logic: Show/hide trigger exists.

Which version of Rails do you use?*

☐ Rails Edge

- ☐ Rails 8.0
- ☐ Rails 7.2
- ☐ Rails 7.1
- ☐ Rails 7.0
- ☐ Rails 6.1
- ☐ Rails 6.0
- ☐ Rails 5.2
- ☐ Rails 5.1
- ☐ Rails 5.0
- ☐ Rails 4.x or earlier
- ☐ I'm not sure

Logic: Hidden unless: #234 Question "Which version of Rails do you use?" is one of the following answers ("Rails 7.2", "Rails 7.1", "Rails 7.0", "Rails 6.1", "Rails 6.0", "Rails 5.2", "Rails 5.1", "Rails 5.0", "Rails 4.x or earlier")

Do you plan to migrate to a newer version of Rails in the next 12 months? If so, to which one?*

- ☐ I don't plan to migrate to a newer version of Rails in the next 12 months
- ☐ Rails Edge
- ☐ Rails 8
- ☐ Rails 7
- ☐ Rails 6
- ☐ Rails 5 or earlier
- ☐ Other, please specify:: _____

Which servers do you regularly use in production, if any?*

- ☐ None
- ☐ Unicorn
- ☐ Puma
- ☐ Phusion Passenger

- ☐ Thin
- ☐ WEBrick
- ☐ Other, please specify:: _____

Which unit testing frameworks do you regularly use for Ruby development, if any?*

- ☐ I don't write unit tests for Ruby
- ☐ I write unit tests but don't use any frameworks
- ☐ Shoulda
- ☐ RSpec
- ☐ Cucumber
- ☐ minitest
- ☐ Test::Unit
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Which type-specification tools do you use for Ruby development, if any?*

- ☐ None
- ☐ RBS
- ☐ Sorbet
- ☐ YARD
- ☐ Other, please specify:: _____

Logic: Hidden unless: #238 Question "Which type-specification tools do you use for Ruby development, if any?" is one of the following answers ("None")

Do you plan to use any type-specification tools for Ruby development in the next 12 months?*

- ☐ No
- ☐ RBS

- ☐ Sorbet
- ☐ YARD
- ☐ Other, please specify:: _____

Which type-checking tools do you use, if any?*

- ☐ None
- ☐ RubyMine
- ☐ Steep
- ☐ Sorbet
- ☐ Other, please specify:: _____

Do you use any frontend JavaScript framework along with Ruby on Rails or another server-side Ruby framework?*

- ☐ I don't use such frameworks with Ruby on Rails
- ☐ React
- ☐ Stimulus
- ☐ Turbo
- ☐ Angular
- ☐ AngularJS
- ☐ Ember
- ☐ Vue.js
- ☐ Backbone
- ☐ Polymer
- ☐ ViewComponent
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists. Hidden unless: (#227 Question "Which editor or IDE do you primarily use for Ruby development?" is one of the following answers ("RubyMine") OR #228 Question "Which additional editor or IDE do you use for Ruby development the most, if any?" is one of the following answers ("RubyMine"))

Which remote development technologies have you tried using in RubyMine?*

Hint: Remote interpreters let you run Ruby code on remote machines while coding locally in RubyMine. JetBrains Gateway enables full remote development by connecting to a RubyMine backend running entirely on a remote server.

☐ JetBrains Gateway

☐ Remote interpreters

☐ Other, please specify:: _____

☐ None

Logic: Hidden unless: #242 Question "Which remote development technologies have you tried using in RubyMine?" is one of the following answers ("JetBrains Gateway")

Which type of host did you use with JetBrains Gateway?*

☐ SSH

☐ Dev Containers

☐ WSL

☐ Other, please specify:: _____

Logic: Hidden unless: #242 Question "Which remote development technologies have you tried using in RubyMine?" is one of the following answers ("JetBrains Gateway")

How would you describe your experience using JetBrains Gateway?*

Very negative

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Very positive

Logic: Hidden unless: #242 Question "Which remote development technologies have you tried using in RubyMine?" is one of the following answers ("JetBrains Gateway","Remote interpreters","Other, please specify:")

How often do you use remote development to code in Ruby?*

- ☐ Every day
- ☐ Several times a week
- ☐ Several times a month
- ☐ Once a month or less often
- ☐ I used remote development in the past but have returned to local development

Logic: Hidden unless: #242 Question "Which remote development technologies have you tried using in RubyMine?" is one of the following answers ("Remote interpreters")

If you prefer remote interpreters over remote development, which interpreters do you use?*

- ☐ I don't use remote interpreters
- ☐ Docker
- ☐ Docker Compose
- ☐ Vagrant
- ☐ WSL
- ☐ Ruby over SSH
- ☐ Other, please specify:: _____

Which Ruby debugger do you use, if any?*

- ☐ None
- ☐ debug gem
- ☐ RubyMine debugger
- ☐ Byebug
- ☐ Other, please specify:: _____

How many distinct subsystems or components does your main project repository contain?*

A component/subsystem in this context means a distinct part of your codebase that has a clear responsibility, could potentially work if separated from the main system, and has minimal dependencies on other parts of your code. Examples include a notification system, a reporting engine, or a private gem located in the main project's repository.

- ☐ 1
- ☐ 2–5
- ☐ 6–10
- ☐ 11+

Has your development team grown or shrunk in the last year?*

- ☐ Grown
- ☐ Stayed about the same
- ☐ Shrunk

Have you been to a conference (regional, national, or international) for Ruby and/or Rails in the last year?*

- ☐ Yes
- ☐ No

Do you participate in local user groups related to Ruby / Rails development (whether in person or online)?*

- ☐ Yes
- ☐ No

Rust 1

The following questions are about Rust development.

What do you use Rust for?*

- ☐ Work / professional projects
- ☐ Side / Hobby projects
- ☐ I'm currently learning Rust
- ☐ Other, please specify:: _____

How long have you been using Rust?*

- ☐ Less than a month
- ☐ From 1 month to less than 6 months
- ☐ From 6 months to less than 1 year
- ☐ From 1 year to less than 3 years
- ☐ 3 years or more

Which IDEs or editors do you use for Rust development?*

- ☐ Eclipse
 - ☐ Emacs
 - ☐ RustRover
 - ☐ CLion
 - ☐ IntelliJ IDEA Ultimate
 - ☐ Sublime Text
 - ☐ Vim
 - ☐ Visual Studio
 - ☐ Visual Studio Code
 - ☐ Neovim
 - ☐ Zed
 - ☐ Helix
 - ☐ Cursor
 - ☐ Other, please specify:: _____
-

Rust 2 (Rust Primary IDE)

Which IDE or editor do you use the most for Rust development?*

- ☐ Eclipse
 - ☐ Emacs
 - ☐ RustRover
 - ☐ CLion
 - ☐ IntelliJ IDEA Ultimate
 - ☐ Sublime Text
 - ☐ Vim
 - ☐ Visual Studio
 - ☐ Visual Studio Code
 - ☐ Neovim
 - ☐ Zed
 - ☐ Helix
 - ☐ Cursor
 - ☐ Other, please specify:: _____
-

Rust 3

Which programming languages do you use in your projects along with Rust?*

- ☐ None
- ☐ C
- ☐ C++
- ☐ C#
- ☐ Python
- ☐ Java / Kotlin / Scala

- ☐ Go
- ☐ JavaScript / TypeScript
- ☐ Swift
- ☐ Objective-C
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
- ☐ SQL
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

How much coding experience did you have before you started using Rust?*

- ☐ None
- ☐ Some
- ☐ A lot
- ☐ I'm not sure

Logic: Hidden unless: #257 Question "How much coding experience did you have before you started using Rust?" is one of the following answers ("Some","A lot")

What were your primary programming languages before you started using Rust?

- ☐ Assembly
- ☐ C
- ☐ C#
- ☐ C++
- ☐ Dart
- ☐ Go
- ☐ Groovy
- ☐ HTML / CSS
- ☐ Haskell
- ☐ Java
- ☐ JavaScript

- ☐ Kotlin
- ☐ Lua
- ☐ PHP
- ☐ Python
- ☐ Ruby
- ☐ SQL
- ☐ Scala
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
- ☐ Swift
- ☐ TypeScript
- ☐ Other, please specify:: _____

Which profiling tools do you use for Rust, if any?*

- ☐ I don't use profiling tools
- ☐ perf
- ☐ gprof
- ☐ Callgrind / Cachegrind
- ☐ DTrace
- ☐ The IDE's bundled profiler
- ☐ Other, please specify:: _____

Which kinds of projects do you develop in Rust?*

- ☐ Web development
- ☐ Systems programming
- ☐ DevOps
- ☐ Network programming
- ☐ Databases
- ☐ Security
- ☐ Finance / Commerce
- ☐ Data science / Machine learning / AI

- ☐ Desktop / GUI applications
- ☐ Embedded devices / Internet of Things
- ☐ Academic / Scientific / Numeric
- ☐ Blockchain
- ☐ Games
- ☐ CLI tools
- ☐ Other, please specify:: _____

Which platforms do you target with your Rust projects?*

- ☐ Linux
 - ☐ Windows
 - ☐ macOS
 - ☐ Android
 - ☐ iOS
 - ☐ WebAssembly
 - ☐ Embedded
 - ☐ Other, please specify:: _____
-

Scala 1

The following questions are about Scala development.

Which versions of Scala do you regularly use?*

- ☐ Scala 3
- ☐ Scala 2.13
- ☐ Scala 2.12
- ☐ Scala 2.11

- ☐ Scala 2.10 or earlier
 - ☐ I'm not sure
-

Scala 2

Logic: Hidden unless: (#263 Question "Which versions of Scala do you regularly use?" is not one of the following answers ("Scala 3") AND #263 Question "Which versions of Scala do you regularly use?")

What is preventing you from switching to Scala 3?*

- ☐ I'm maintaining a legacy project
- ☐ My code depends on Scala 2 libraries, and cross-compilation is not good enough
- ☐ Migration is too difficult
- ☐ Tooling for Scala 3 is not good enough for me
- ☐ Other, please specify:: _____

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

Which version of Scala do you mainly use for your work projects?*

- ☐ I use only Scala 3
- ☐ I use mainly Scala 3
- ☐ I use Scala 3 and Scala 2 equally
- ☐ I use mainly Scala 2
- ☐ I use only Scala 2
- ☐ I don't use Scala for my work projects

Which version of Scala do you mainly use for your hobby projects?*

- ☐ I use only Scala 3
- ☐ I use mainly Scala 3
- ☐ I use Scala 3 and Scala 2 equally
- ☐ I use mainly Scala 2
- ☐ I use only Scala 2
- ☐ I don't use Scala for my hobby projects

Which unit testing frameworks do you regularly use, if any?*

- ☐ I don't write unit tests for Scala
- ☐ I write unit tests, but I don't use any frameworks
- ☐ ScalaTest
- ☐ ScalaMock
- ☐ MUnit
- ☐ JUnit
- ☐ ScalaCheck
- ☐ specs2
- ☐ μ Test (micro test)
- ☐ ZIO Test
- ☐ Weaver Test
- ☐ Other, please specify:: _____

Which frameworks and libraries do you regularly use?*

- ☐ None
- ☐ twitter/util
- ☐ Akka
- ☐ Apache Pekko
- ☐ Apache Spark
- ☐ Scalaz
- ☐ shapeless

- ☐ Finagle
- ☐ Cats
- ☐ Slick
- ☐ doobie
- ☐ FS2
- ☐ Monix
- ☐ ZIO
- ☐ Other, please specify:: _____

Which frameworks and libraries do you regularly use for web development?*

- ☐ None
- ☐ Akka HTTP
- ☐ Netty
- ☐ Apache Spark
- ☐ Play
- ☐ spray
- ☐ Scalatra
- ☐ Finatra
- ☐ Spring
- ☐ sttp
- ☐ http4s
- ☐ Kyo
- ☐ Tapir
- ☐ ZIO HTTP
- ☐ Other, please specify:: _____

Which editors or IDEs do you use for Scala development?*

- ☐ IntelliJ IDEA
- ☐ Vim
- ☐ Sublime Text

- ☐ Visual Studio Code
- ☐ Emacs
- ☐ Other, please specify:: _____

Which build systems do you regularly use?*

- ☐ None
- ☐ Maven
- ☐ Gradle
- ☐ sbt
- ☐ Bazel
- ☐ Mill
- ☐ Other, please specify:: _____

Which interactive Scala environments do you regularly use, if any?*

- ☐ None
- ☐ Scala CLI (previously Scala REPL)
- ☐ sbt console
- ☐ Ammonite REPL
- ☐ Scastie
- ☐ IntelliJ IDEA worksheet
- ☐ Metals worksheet in VS Code
- ☐ Apache Zeppelin notebook
- ☐ Jupyter notebook
- ☐ Other, please specify:: _____

Which other tools do you use for Scala development?*

- ☐ None
- ☐ scoverage
- ☐ Scalafmt

- ☐ Scalafix
 - ☐ Scapegoat
 - ☐ Scalastyle
 - ☐ WartRemover
 - ☐ Other, please specify:: _____
-

Microservices (random if develop)

The following questions are about microservices development.

How do the distributed parts of your application communicate?*

- ☐ Cross-platform RPC (gRPC, Apache Thrift)
- ☐ Custom TCP / UDP communication
- ☐ GraphQL
- ☐ Message queues
- ☐ Remoting (RMI, JMX)
- ☐ REST / RPC over HTTP
- ☐ SOAP
- ☐ Stream processing
- ☐ WebSocket
- ☐ They do not communicate with each other
- ☐ The application is not distributed
- ☐ Other, please specify:: _____

Where do you store API specifications?*

- ☐ I'm not sure
- ☐ I don't store them

- ☐ Custom API management system
- ☐ SwaggerHub
- ☐ VCS
- ☐ Wiki system
- ☐ Other, please specify:: _____ *

Which repository configuration do you use to organize version control for microservices?*

- ☐ Mono-repository
- ☐ Multiple VCS repositories
- ☐ I don't know

Which languages do you use to develop microservices?*

- ☐ Java
- ☐ Kotlin
- ☐ Groovy
- ☐ Scala
- ☐ JavaScript
- ☐ TypeScript
- ☐ C#
- ☐ Go
- ☐ Python
- ☐ PHP
- ☐ Ruby
- ☐ Swift
- ☐ Other, please specify:: _____

Page entry logic: This page will show when: #9 Question "In which country or region do you currently reside?" is one of the following answers ("China Mainland", "Hong Kong", "Macao", "Taiwan")

Mini-apps (if mini app and china)

Do you develop mini-apps (for WeChat, Alipay, Baidu, etc.)?*

☐ No

☐ 微信 (WeChat)

☐ 支付宝 (Alipay)

☐ 百度 (Baidu)

☐ 美团 (Meituan)

☐ 饿了么 (Ele.me)

☐ 抖音 (TikTok/Douyin)

☐ 钉钉 (DingTalk)

☐ Other, please specify:: _____

Which IDE do you use for mini-app development?*

☐ Other, please specify:: _____

Which libraries do you use for mini-app development, if any?*

☐ None

☐ uni-app

☐ Taro 文档

☐ Weixin native 微信

☐ Other, please specify:: _____

How satisfied or dissatisfied are you with the development tools that you currently use for mini-app development?*

☐ Very Dissatisfied

☐ Dissatisfied

- ☐ Neutral
 - ☐ Satisfied
 - ☐ Very Satisfied
 - ☐ Not applicable
-

Embedded - intro (logic if embedded)

The following questions are about embedded software development.

Logic: Show/hide trigger exists.

Which types of projects do you typically undertake in embedded development?*

- ☐ I do not engage in embedded development
 - ☐ I work individually on embedded software projects as a hobbyist
 - ☐ I do embedded development as part of my research project in a scientific or educational organization
 - ☐ I collaborate with a team of hobbyists on embedded software projects
 - ☐ I contribute to open-source embedded software projects
 - ☐ I professionally undertake embedded development as part of my job responsibilities
 - ☐ Other, please specify:: _____
-

Embedded - main

Logic: Hidden unless: #282 Question "Which types of projects do you typically undertake in embedded development?" is one of the following answers ("I work individually on

embedded software projects as a hobbyist", "I do embedded development as part of my research project in a scientific or educational organization", "I collaborate with a team of hobbyists on embedded software projects", "I contribute to open-source embedded software projects", "I professionally undertake embedded development as part of my job responsibilities")

Which ready-made microcontroller kits or single-board computers do you use for any purpose in your main projects?*

- ☐ Arduino
- ☐ Single-board computers (Raspberry Pi, Orange Pi, BeagleBoard, etc.)
- ☐ ESP32-based series
- ☐ STM32 Nucleo/Discovery
- ☐ TI LaunchPad
- ☐ Modular prototyping boards (micro:bit, Seeed Grove, M5Stack, etc.)
- ☐ Ready-to-hack devices (Flipper Zero, PineTime, etc.)
- ☐ Other, please specify:: _____
- ☐ No, I use custom boards

Think of the code you wrote last year. Which vendors' microcontrollers or microprocessors does it run on?*

Note: Atmel was purchased by Microchip Technology, Freescale by NXP, Xilinx by AMD, and Spansion and Cypress are now Infineon.

- ☐ I don't know
- ☐ I don't use microcontrollers / microprocessors
- ☐ AMD
- ☐ Analog Devices
- ☐ Broadcom (Raspberry Pi)
- ☐ Cirrus Logic
- ☐ Espressif Systems (ESP32, etc.)
- ☐ GigaDevice Semiconductor
- ☐ Infineon Technologies (Spansion and Cypress Semiconductor)
- ☐ Intel
- ☐ Lattice Semiconductor

- ☐ Marvell Technology
- ☐ MediaTek
- ☐ Microchip Technology (PIC, Atmel)
- ☐ NVIDIA
- ☐ NXP Semiconductors
- ☐ Qualcomm
- ☐ Renesas Electronics
- ☐ Samsung
- ☐ Silicon Labs
- ☐ STMicroelectronics
- ☐ Texas Instruments
- ☐ Toshiba
- ☐ Zilog
- ☐ Other, please specify:: _____

Please list up to three microcontroller models that you use (i.e. ATmega328, STM32F103xx, etc.), if applicable:

- 1: _____
- 2: _____
- 3: _____

Logic: Show/hide trigger exists.

Which types of embedded systems do you work with?*

- ☐ Embedded Android-like operating system (Android Things, AliOS, etc.)
- ☐ Embedded operating systems based on Linux (Ubuntu for IoT, Raspberry Pi OS, OpenSTLinux, OpenWRT, etc.)
- ☐ QNX
- ☐ Other UNIX-like OS, please specify:: _____
- ☐ Windows

- ☐ FreeRTOS
- ☐ LiteOS / OpenHarmony / HarmonyOS-based (Oniro OS, etc.)
- ☐ Other real-time operating systems (Zephyr, Azure RTOS, VxWorks, Integrity, etc.)
- ☐ Bare metal systems
- ☐ Other, please specify:: _____

Logic: Hidden unless: #286 Question "Which types of embedded systems do you work with?" is one of the following answers ("Embedded operating systems based on Linux (Ubuntu for IoT, Raspberry Pi OS, OpenSTLinux, OpenWRT, etc.)")

Which embedded Linux-based OS do you work with?*

- ☐ Alpine Linux
- ☐ Armbian
- ☐ Automotive Grade Linux (AGL)
- ☐ CentOS
- ☐ Debian (Debian GNU/Linux)
- ☐ ERIKA Enterprise
- ☐ Fedora Linux / Fedora IoT
- ☐ OpenSTLinux
- ☐ openSUSE MicroOS
- ☐ OpenWRT (Sabai Open, LEDE, etc.)
- ☐ Raspberry Pi OS (formerly Raspbian)
- ☐ Red Hat Enterprise Linux
- ☐ Tizen
- ☐ Ubuntu Server or Ubuntu Desktop
- ☐ Ubuntu Core
- ☐ µClinix
- ☐ Wind River Linux
- ☐ I use a distribution builder (Yocto Project, Buildroot, etc.)
- ☐ I use an in-house / custom-developed Linux distribution
- ☐ Other, please specify:: _____

Logic: Hidden unless: #286 Question "Which types of embedded systems do you work with?" is one of the following answers ("Other real-time operating systems (Zephyr, Azure RTOS, VxWorks, Integrity, etc.)")

Which real-time operating systems do you work with (besides FreeRTOS)?*

- ☐ Azure RTOS / Eclipse ThreadX
- ☐ ChibiOS/RT
- ☐ embOS
- ☐ Integrity
- ☐ Keil RTX / mbed OS
- ☐ MicroC/OS (μ C/OS, Micrium OS)
- ☐ NuttX
- ☐ RIOT
- ☐ LynxOS
- ☐ RTEMS
- ☐ VxWorks
- ☐ Zephyr
- ☐ Other, please specify:: _____

Logic: Hidden unless: #31 Question "What are your primary programming languages? " is one of the following answers ("Assembly")

How do you usually use assembly language?*

- ☐ I read the assembly produced by the compiler
- ☐ I write inline assembly in C / C++ / other language files
- ☐ I write dedicated assembly files
- ☐ Other, please specify:: _____

Which of the following embedded development processes do you regularly perform in addition to software development?*

- ☐ Software testing

- ☐ Simulation
- ☐ Emulation
- ☐ Graphical system design
- ☐ Virtual prototyping
- ☐ Modeling in high-level languages
- ☐ Cloud integration
- ☐ Application security testing
- ☐ Other, please specify:: _____

Do you use PlatformIO?*

- ☐ Yes
 - ☐ No
 - ☐ I'm not sure
-

GameDev

The following questions are about game development.

Which game technologies do you use, if any?*

- ☐ I don't use game technologies
- ☐ Unity
- ☐ Unreal Engine
- ☐ Godot
- ☐ Amazon Lumberyard / O3DE
- ☐ Cocos2d-x
- ☐ Corona
- ☐ CRYENGINE

- ☐ Custom C++ engine
- ☐ GameMaker / GameMaker Studio 2
- ☐ RPG Maker
- ☐ Frostbite
- ☐ MonoGame / XNA
- ☐ Source
- ☐ Stride
- ☐ Bevy
- ☐ Fortnite
- ☐ Roblox
- ☐ Minecraft
- ☐ Other, please specify:: _____

Page entry logic: This page will show when: #292 Question "Which game technologies do you use, if any?" is one of the following answers ("Unity","Unreal Engine","Godot","Amazon Lumberyard / O3DE","Cocos2d-x","Corona","CRYENGINE","Custom C++ engine","GameMaker / GameMaker Studio 2","RPG Maker","Frostbite","MonoGame / XNA","Source","Stride","Bevy","Fortnite","Roblox","Minecraft","Other, please specify:")

GameDev (10 q of 22 shown) // who use game tech

Logic: Show/hide trigger exists.

What best describes the type(s) of projects you or your company use game technologies to develop?*

- ☐ Games
- ☐ Film or television
- ☐ Digital twin
- ☐ Marketing or advertising
- ☐ Educational or training
- ☐ 3D art
- ☐ Other, please specify:: _____

☐ I don't know

Do you use game technologies or develop games professionally or as a hobby?*

☐ Professionally

☐ As a hobby

☐ Other, please specify:: _____

Logic: Hidden unless: (#293 Question "What best describes the type(s) of projects you or your company use game technologies to develop?" is one of the following answers ("Games") AND #3 Question "Which of the following best describe your job role(s) regardless of your position level?")

How would you describe the company or organization you work for?*

☐ Indie studio

☐ AAA studio

☐ AA studio

☐ VFX or animation studio

☐ Marketing or advertising agency

☐ 3D art / modelling studio

☐ University or college

☐ I'm an independent contractor or freelancer

☐ Other, please specify:: _____

Logic: Hidden unless: #293 Question "What best describes the type(s) of projects you or your company use game technologies to develop?" is one of the following answers ("Games")

Where do you distribute your games?*

☐ Steam

☐ Microsoft Store

☐ Nintendo eShop

- ☐ PlayStation Store
- ☐ Amazon Appstore
- ☐ Google Play
- ☐ Apple App Store
- ☐ Epic Games Store
- ☐ itch.io
- ☐ Newgrounds
- ☐ GOG
- ☐ EA app
- ☐ Ubisoft Store
- ☐ Our own website
- ☐ Open-source repository
- ☐ Other, please specify:: _____
- ☐ I don't know
- ☐ We do not distribute games commercially

Logic: Hidden unless: #293 Question "What best describes the type(s) of projects you or your company use game technologies to develop?" is one of the following answers ("Games")

Which genre(s) of games do you develop?*

- ☐ Action
- ☐ Adventure
- ☐ Casual
- ☐ Fighting
- ☐ Platformer
- ☐ Puzzle
- ☐ Racing
- ☐ Role-playing
- ☐ Shooter
- ☐ Simulation
- ☐ Sports

☐ Strategy

☐ Other, please specify: _____

Logic: Hidden unless: #293 Question "What best describes the type(s) of projects you or your company use game technologies to develop?" is one of the following answers ("Games")

Which parts of game development do you work on?*

☐ I don't develop the game itself

☐ Game engine or engine subsystem development

☐ Shaders

☐ Gameplay

☐ Game logic and mechanics

☐ Creating game physics

☐ AI development

☐ Developing and modifying 3D graphic renders

☐ Creating the user interface

☐ Writing code that is specific to the keyboard, mouse, or controller

☐ Scripting functions, events, and interactions

☐ Developing tools

☐ Sound programming

☐ Netcode development

☐ Other, please specify: _____

Which platforms do you target with your projects that use game technologies?*

☐ Windows

☐ macOS

☐ Linux

☐ PlayStation

☐ Nintendo Switch

☐ Steam Deck

- ☐ Xbox
- ☐ iOS
- ☐ Android
- ☐ Web
- ☐ VR / AR
- ☐ Media platforms (Netflix, TikTok, etc.)
- ☐ UGC platforms (Roblox, Minecraft, Fortnite, etc.)
- ☐ Other, please specify:: _____
- ☐ None

Which IDE or editor do you use the most for your game development projects?*

- ☐ Visual Studio
- ☐ Visual Studio Code
- ☐ Visual Studio with JetBrains ReSharper
- ☐ JetBrains Rider
- ☐ IntelliJ IDEA
- ☐ CLion
- ☐ PyCharm
- ☐ WebStorm
- ☐ Android Studio
- ☐ Other, please specify:: _____

Logic: Hidden unless: #30 Question "Which programming languages have you used in the last 12 months?"

Which of the following programming languages have you used for your game development projects in the last 12 months?*

- ☐ Ada
- ☐ Assembly
- ☐ C
- ☐ C#

- ☐ C++
- ☐ Clojure / ClojureScript
- ☐ COBOL
- ☐ CoffeeScript
- ☐ Dart
- ☐ Delphi
- ☐ Elixir
- ☐ F#
- ☐ Go
- ☐ Groovy
- ☐ Haskell
- ☐ HTML / CSS
- ☐ Java
- ☐ JavaScript
- ☐ Julia
- ☐ Kotlin
- ☐ LabVIEW (G dataflow)
- ☐ Lua
- ☐ MATLAB
- ☐ Objective-C
- ☐ Perl
- ☐ PHP
- ☐ Platform-specific language (Apex, ABAP, 1C, etc.)
- ☐ Python
- ☐ R
- ☐ Ruby
- ☐ Rust
- ☐ Scala
- ☐ Shell scripting languages (Bash, Shell, PowerShell, etc.)
- ☐ SQL (PL/SQL, T-SQL, or other programming extensions of SQL)
- ☐ Swift
- ☐ TypeScript
- ☐ Visual Basic

☐ Other, please specify:: _____

Which tools do you or your team use for version control?*

☐ Perforce Helix Core

☐ GitHub

☐ GitLab

☐ Apache Subversion (SVN)

☐ Unity Version Control (formerly Plastic SCM)

☐ Bitbucket

☐ Azure Repos / Azure DevOps Services

☐ Azure DevOps Server

☐ I don't know

☐ Other, please specify:: _____

☐ None of the above

Which tool(s) do you or your team use for storing and sharing files and art assets?*

☐ Dropbox

☐ Email

☐ Network File System (NFS)

☐ Version control system

☐ Google Drive

☐ Microsoft SharePoint

☐ Discord

☐ ShotGrid

☐ ftrack

☐ I don't know

☐ Other, please specify:: _____

☐ None of the above

Which graphic or digital content creation (DCC) tool(s) do you or your team use, if any?*

☐ Adobe Photoshop

☐ Autodesk Maya

☐ Autodesk 3ds Max

☐ Houdini

☐ Blender

☐ Nuke

☐ Adobe After Effects

☐ Cinema 4D

☐ 2D AI tools

☐ 3D AI tools

☐ I don't know

☐ Other, please specify:: _____

Which of the following have you been using to learn anything related to game development in the past 12 months?*

☐ I've not tried to learn anything new in the past 12 months

☐ Offline educational organizations

☐ Personal teacher / Consultant

☐ Online coding schools (Codecademy, JetBrains Academy, etc.)

☐ MOOCs (Coursera, edX, Udacity, etc.)

☐ Blogs / Forums

☐ Documentation and APIs

☐ Other, please specify:: _____

Which events related to game development did you attend in the past two years, if any?*

☐ I didn't visit any events related to game development

☐ Game Developers Conference

☐ devcom

☐ gamescom

- ☐ Unite
- ☐ Unreal Fest
- ☐ Develop:Brighton
- ☐ GIC
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

How often do you profile while developing with game technologies?*

- ☐ Constantly, it's an ongoing background process
- ☐ Regularly, each week or sprint to predict issues
- ☐ From time to time, whenever issues arise
- ☐ Never

Logic: Hidden unless: #307 Question "How often do you profile while developing with game technologies?" is one of the following answers ("Constantly, it's an ongoing background process", "Regularly, each week or sprint to predict issues", "From time to time, whenever issues arise")

Have you ever integrated performance tests or profiler usage into your CI/CD pipeline?*

- ☐ Yes
- ☐ No
- ☐ I don't know

Logic: Hidden unless: #307 Question "How often do you profile while developing with game technologies?" is one of the following answers ("Constantly, it's an ongoing background process", "Regularly, each week or sprint to predict issues", "From time to time, whenever issues arise")

Why do you usually profile?*

- ☐ Massive performance issues have been detected, and I need to eliminate them

☐ There aren't any significant known issues, but I use profiling to improve the performance metrics of my code

☐ Other, please specify: _____

Logic: Hidden unless: #307 Question "How often do you profile while developing with game technologies?" is one of the following answers ("Constantly, it's an ongoing background process", "Regularly, each week or sprint to predict issues", "From time to time, whenever issues arise")

Do you use profilers that are not part of the game engine you work with?*

☐ Yes

☐ No

Logic: Hidden unless: #307 Question "How often do you profile while developing with game technologies?" is one of the following answers ("Constantly, it's an ongoing background process", "Regularly, each week or sprint to predict issues", "From time to time, whenever issues arise")

Which CPU profilers do you use that are not part of the game development engine you primarily work with?*

☐ None

☐ Visual Studio Performance Profiler (Instrumenting (VSInstr+VSPerf))

☐ Concurrency Visualizer for Visual Studio (CVTrace)

☐ Windows Performance Toolkit (WPR / Xperf with WPA)

☐ PerfView

☐ Intel VTune Profiler

☐ PIX on Windows

☐ perf tools on Linux

☐ Platform-provided profilers (PIX for Xbox, Razor GPU/CPU for PS4, etc.)

☐ dotTrace

☐ Superluminal

☐ Chrome event tracing

☐ Other, please specify: _____

Logic: Hidden unless: #307 Question "How often do you profile while developing with game technologies?" is one of the following answers ("Constantly, it's an ongoing background process", "Regularly, each week or sprint to predict issues", "From time to time, whenever issues arise")

Which libraries do you use for annotating code?*

- ☐ None
- ☐ ETW
- ☐ Intel VTune event API
- ☐ PIX markers
- ☐ Profiling API provided by the platform SDK
- ☐ Chrome event tracing API
- ☐ Other, please specify:: _____

Logic: Hidden unless: #307 Question "How often do you profile while developing with game technologies?" is one of the following answers ("Constantly, it's an ongoing background process", "Regularly, each week or sprint to predict issues", "From time to time, whenever issues arise")

Which profiler mode do you use the most?*

- ☐ None
- ☐ Startup
- ☐ Attach
- ☐ Other, please specify:: _____

Logic: Hidden unless: #307 Question "How often do you profile while developing with game technologies?" is one of the following answers ("Constantly, it's an ongoing background process", "Regularly, each week or sprint to predict issues", "From time to time, whenever issues arise")

What information are you primarily looking for in call trees when profiling your games?*

- ☐ None

- ☐ Game or user code
 - ☐ Engine code
 - ☐ System calls
 - ☐ Other, please specify:: _____
-

Mobile (logic, 50% chance to be shown, 5 out of 7 questions)

The following questions are about mobile development.

For which mobile operating systems do you develop?*

- ☐ Android
- ☐ iOS
- ☐ HarmonyOS
- ☐ Other, please specify:: _____

How do you develop for mobile operating systems?*

- ☐ I use native tools (Swift for iOS, Kotlin for Android, etc.)
- ☐ I use cross-platform technologies and frameworks (e.g. Flutter, KMP, React Native)

Logic: Show/hide trigger exists.

Which cross-platform mobile frameworks do you use?*

- ☐ Ionic
- ☐ Xamarin
- ☐ Unity
- ☐ React Native

- ☐ Flutter
- ☐ Kotlin Multiplatform
- ☐ .NET MAUI
- ☐ Other, please specify:: _____

Logic: Hidden unless: #317 Question "Which cross-platform mobile frameworks do you use?" is one of the following answers ("Kotlin Multiplatform")

Which of the following best describes your Kotlin Multiplatform usage?*

- ☐ I'm using KMP in a production project
- ☐ I'm currently adopting KMP in a production project
- ☐ I'm evaluating KMP for a production project
- ☐ I wanted to use KMP in production but encountered blockers
- ☐ I'm developing an open-source library with KMP
- ☐ I'm experimenting with KMP for self-education or as a hobby
- ☐ Other, please specify:: _____

Logic: Hidden unless: #317 Question "Which cross-platform mobile frameworks do you use?" is one of the following answers ("Kotlin Multiplatform")

Which platforms do you use Kotlin Multiplatform for?*

- ☐ Android
- ☐ iOS
- ☐ Desktop (JVM-based)
- ☐ Backend (JVM-based)
- ☐ Web (JS-based)
- ☐ Web (Wasm-based)
- ☐ Wearable devices
- ☐ Smart TVs
- ☐ HarmonyOS
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists. Hidden unless: #317 Question "Which cross-platform mobile frameworks do you use?" is one of the following answers ("Kotlin Multiplatform")

Do you use Compose Multiplatform?*

- ☐ No, and I don't plan to use it
- ☐ No, but I plan to start using it
- ☐ No, but I'm considering it
- ☐ Yes, I use it in my hobby project(s)
- ☐ Yes, I use it in my production project(s)
- ☐ Yes, I use it in both my production and hobby project(s)
- ☐ I don't know
- ☐ Other, please specify: _____

Logic: Hidden unless: #320 Question "Do you use Compose Multiplatform?" is one of the following answers ("Yes, I use it in my hobby project(s)", "Yes, I use it in my production project(s)", "Yes, I use it in both my production and hobby project(s)")

Which platforms do you use Compose Multiplatform for?*

- ☐ Android
- ☐ iOS
- ☐ Desktop
- ☐ Web (HTML, Kotlin/JS backend)
- ☐ Web (Canvas, Kotlin/JS backend)
- ☐ Web (Kotlin/Wasm backend)
- ☐ Other, please specify: _____

Which of the following issues regularly hinder your work in DevOps or SRE?*

Select up to three options.

- ☐ Managing complex multi-cloud or hybrid infrastructures
- ☐ Ensuring security and compliance in CI/CD pipelines
- ☐ Dealing with a fragmented toolset and lack of integration
- ☐ Handling extensive manual, repetitive tasks
- ☐ Slow or unreliable CI/CD pipelines
- ☐ Insufficient system visibility
- ☐ Other, please specify:: _____

Which of the following best describes the amount of manual, repetitive tasks performed in your DevOps processes?*

- ☐ No manual tasks (full automation)
- ☐ Occasional manual tasks
- ☐ A balanced mix of manual tasks and automation
- ☐ A lot of manual tasks
- ☐ Mostly manual tasks

How strongly do you agree or disagree with the following statement?

“In our team, there’s effective collaboration between development and operations.”*

- ☐ Strongly disagree ☐ Somewhat disagree ☐ Neutral ☐ Somewhat agree ☐ Strongly agree

Which of the following practices do you currently use in your team?*

- ☐ CI/CD pipelines
- ☐ Infrastructure as code (IaC)
- ☐ GitOps
- ☐ DevSecOps
- ☐ Platform engineering

- ☐ AI-driven operations
 - ☐ Containerization and orchestration
 - ☐ Serverless (FaaS) solutions and/or increasing multi-cloud or hybrid cloud usage
 - ☐ Other, please specify:: _____
 - ☐ None
-

DevOps 2

Which of the following practices or technologies do you plan to implement in the next 1–2 years?*

- ☐ CI/CD pipelines
- ☐ Infrastructure as code (IaC)
- ☐ GitOps
- ☐ DevSecOps
- ☐ Platform engineering
- ☐ AI-driven operations
- ☐ Containerization and orchestration
- ☐ Serverless (FaaS) solutions and/or increasing multi-cloud or hybrid cloud usage
- ☐ Other, please specify:: _____
- ☐ None

Logic: Show/hide trigger exists.

Do you use Kubernetes in your infrastructure?*

- ☐ Yes, in production (for live, mission-critical systems)
- ☐ Yes, for development or testing
- ☐ I'm learning to use Kubernetes and experimenting
- ☐ No

Logic: Hidden unless: #328 Question "Do you use Kubernetes in your infrastructure?" is one of the following answers ("Yes, in production (for live, mission-critical systems)", "Yes, for development or testing", "I'm learning to use Kubernetes and experimenting")

Which tools do you use to manage your Kubernetes clusters?*

- ☐ The official CLI (kubectl) and YAML manifest files
- ☐ Web consoles or CLIs provided by cloud providers (e.g. AWS EKS Console, Google Cloud, etc.)
- ☐ Specialized IDEs or tools for Kubernetes (e.g. Lens, Rancher, etc.)
- ☐ IDE plugins (e.g. the Kubernetes plugin in IntelliJ IDEA, PyCharm, etc.)
- ☐ Custom scripts or tooling built on top of the Kubernetes API
- ☐ I'm not sure
- ☐ Not applicable

Which configuration management or IaC tools do you use?*

- ☐ HashiCorp Terraform
- ☐ Red Hat Ansible
- ☐ Puppet or Chef
- ☐ Pulumi or other code-centric IaC tools
- ☐ Custom scripts or in-house solutions
- ☐ Cloud-native IaC tools (e.g. AWS CloudFormation/CDK, Azure ARM/Bicep, Google Deployment Manager, etc.)
- ☐ None of the above

Which monitoring and logging tools do you use to track application and infrastructure performance?*

- ☐ Prometheus or Grafana for metrics and dashboards
- ☐ ELK/EFK Stack (Elasticsearch, Kibana, Logstash, or Fluentd) for log management
- ☐ Splunk or similar log analysis platforms
- ☐ Application Performance Monitoring (APM) tools (e.g. Datadog, New Relic, Dynatrace, etc.)

☐ Cloud-native monitoring services (e.g. AWS CloudWatch, Azure Monitor, Google Cloud Operations, etc.)

☐ OpenTelemetry and custom-built solutions (for tracing and metrics)

☐ Custom scripts or home-grown monitoring solutions

☐ Other, please specify:: _____

☐ I do not use dedicated monitoring or logging tools

How satisfied or dissatisfied are you with your current monitoring and observability solutions?*

☐ Not satisfied at all

1 ☐ 2 ☐ 3 ☐ 4 ☐ Fully satisfied

5

Next year, what priority will you place on enhancing observability and monitoring for your systems?*

☐ No priority

1 ☐ 2 ☐ 3 ☐ 4 ☐ Top priority

5

When a production incident or outage occurs, what is your team's typical response approach?*

☐ We follow a well-defined SRE process (with established SLOs/SLIs, automated alerting, and postmortems)

☐ We rely on standard alerts and perform manual incident resolution

☐ We use chaos engineering to test and prepare for failures

☐ We apply AI or ML for anomaly detection and incident prediction

☐ Other, please specify:: _____

☐ I'm not sure

For what purpose(s) do you use AI or machine learning tools in your DevOps or SRE processes?*

- ☐ Monitoring and anomaly detection (predictive incident analytics)
- ☐ Resource optimization or automated scaling
- ☐ Generating tests, pipeline scripts, or code (e.g. using ChatGPT, GitHub Copilot, etc.)
- ☐ Other, please specify:: _____
- ☐ We do not currently use AI in our DevOps processes

From your perspective, how strongly will artificial intelligence and machine learning influence DevOps or SRE industry practices in the next few years?*

- ☐ Minimal impact
1 ☐ 2 ☐ 3 ☐ 4 ☐ Radical transformation
5

Have you experienced any issues as a result of using AI-generated code or AI tools in your processes?*

- ☐ Yes
☐ No
☐ I don't use AI tools in my workflow

Which DevOps-related integrations do you currently use within your primary IDE?*

Select all that apply.

- ☐ Docker plugin/integration (for managing containers and images)
- ☐ Kubernetes plugin/integration for cluster management
- ☐ Integration with cloud services (e.g. AWS Toolkit, Google Cloud Tools, etc.)
- ☐ CI/CD integration (viewing build statuses, triggering jobs from within the IDE)
- ☐ Plugins for working with IaC/configuration files
- ☐ Built-in team collaboration tools (chat notifications, issue trackers)
- ☐ Integrated AI assistant (e.g. JetBrains AI Assistant or GitHub Copilot plugin)
- ☐ Other, please specify:: _____
- ☐ None

Please rate the usefulness of the following potential features if they were integrated directly into your IDE.*

| | Not needed 1 | 2 | 3 | 4 | Highly desired 5 |
|---|-----------------------------|----------|----------|----------|---------------------------------|
| Deep integration with CI/CD pipelines (e.g. view build statuses, trigger jobs) | () | () | () | () | () |
| Native support for Infrastructure as Code (“out-of-the-box” enhancements for tools like Terraform, Pulumi, Ansible) | () | () | () | () | () |
| In-IDE Kubernetes cluster management (visualizing clusters, viewing pod logs, deploying from within the editor) | () | () | () | () | () |
| Integration with cloud provider tools (managing AWS, Azure, or Google Cloud resources) | () | () | () | () | () |
| Built-in real-time monitoring and log viewing | () | () | () | () | () |

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| AI-powered assistant for DevOps (that provides e.g. configuration recommendations, automatic YAML/script fixes, incident analysis) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|

Which tool do you use most often when working with IaC or DevOps tasks?*

- ☐ IDE (IntelliJ IDEA, PyCharm, GoLand, or any other IDE based on the IntelliJ Platform)
- ☐ Visual Studio Code editor
- ☐ Zed editor
- ☐ Neovim editor
- ☐ Command-line/terminal plus specialized tools (without a full IDE/GUI editor)
- ☐ Other, please specify:: _____

Clouds and collaborative development (random)

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Founder or business owner in software or tech", "Working student")

How does your company utilize cloud infrastructure?*

- ☐ Multiple public clouds
- ☐ Single public cloud
- ☐ Hybrid (public cloud and on-premises)
- ☐ On-premises only

Which cloud services do you use?*

- ☐ None
- ☐ Amazon Web Services
- ☐ Microsoft Azure
- ☐ Google Cloud Platform
- ☐ Rackspace
- ☐ RedHat OpenShift
- ☐ IBM Cloud
- ☐ Cloud Foundry
- ☐ DigitalOcean
- ☐ Alibaba Cloud (Aliyun)
- ☐ OVHcloud
- ☐ Huawei Cloud
- ☐ Yandex Cloud
- ☐ Oracle Cloud
- ☐ Heroku
- ☐ Hetzner
- ☐ Tencent Cloud
- ☐ Other, please specify:: _____

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time")

If your company is adopting remote development, at what stage of the process is it right now?*

Note: By remote development, we mean developing on a remote machine or cloud development environment.

- ☐ My company has **fully adopted** remote development, including technology and training
- ☐ My company is **building** remote development capabilities
- ☐ My company is **considering** remote development and exploring options

- ☐ Remote development is **not a priority** for my company
- ☐ My company currently has **no plans to adopt** remote development
- ☐ I don't know

Do you practice collaborative development?*

- ☐ Yes, remote collaborative development
- ☐ Yes, face-to-face collaborative development
- ☐ No

Remote (random if develop)

The following questions are about remote development and collaborative development.

How often do you develop on a remote machine or in a cloud development environment (using any programming language)?*

- ☐ Once a week or more often
- ☐ 1–3 times a month
- ☐ Less than once a month

Logic: Show/hide trigger exists.

When you develop remotely, what do you connect to?*

- ☐ My physical machine
- ☐ My virtual machine
- ☐ Amazon CodeCatalyst

- ☐ Coder
- ☐ JetBrains CodeCanvas
- ☐ CodeSandbox
- ☐ Daytona
- ☐ Gitpod
- ☐ GitHub Codespaces
- ☐ Google Cloud Workstations
- ☐ Microsoft Dev Box
- ☐ OpenShift Dev Spaces
- ☐ Replit
- ☐ GitLab remote development (Web IDE)
- ☐ Project IDX
- ☐ Custom cloud development environment
- ☐ VDI-based solution
- ☐ Other, please specify:: _____
- ☐ I'm not sure

Which tools do you use to connect to a remote machine or cloud development environment?*

- ☐ JetBrains IDEs (IntelliJ IDEA, PyCharm, WebStorm, PhpStorm, GoLand, CLion, etc.)
- ☐ Fleet
- ☐ JetBrains Gateway
- ☐ Visual Studio Code
- ☐ Visual Studio
- ☐ Online editor
- ☐ SSH
- ☐ Remote desktop (e.g. VNC)
- ☐ Other, please specify:: _____
- ☐ I'm not sure

Logic: Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000", "I'm not sure")

For which of the following reasons or purposes does your company develop on remote machines?*

- ☐ To enhance security
- ☐ To speed up developer onboarding
- ☐ To improve developer productivity
- ☐ To enable better collaboration
- ☐ To provide access to more powerful machines
- ☐ To improve the scalability of development processes
- ☐ To standardize development environments
- ☐ To enhance cloud-native development
- ☐ To increase the adoption of platform tools
- ☐ To provide access from any device
- ☐ To save costs
- ☐ Other, please specify:: _____

Which virtual desktop infrastructure tools do you use in your development activities, if any?*

- ☐ None
- ☐ AWS Cloud9
- ☐ Citrix
- ☐ Azure Virtual Desktop
- ☐ Windows 365 Cloud PC
- ☐ Microsoft Remote Desktop Services
- ☐ Amazon WorkSpaces
- ☐ Google Virtual Desktop
- ☐ Other, please specify:: _____

Logic: Hidden unless: #348 Question "When you develop remotely, what do you connect to?" is one of the following answers ("Amazon CodeCatalyst","Coder","JetBrains CodeCanvas","CodeSandbox","Daytona","Gitpod","GitHub Codespaces","Google Cloud Workstations","Microsoft Dev Box","OpenShift Dev Spaces","Replit","GitLab remote development (Web IDE)","Project IDX","Custom cloud development environment","VDI-based solution")

**What do you like best about the cloud development environments you use?
Select up to three items that matter most to you.***

- ☐ Value provided by meeting our needs
- ☐ Time required to start the environment
- ☐ Developer experience in remote IDEs
- ☐ Usability of the CDE orchestrator for developers
- ☐ Usability of configuring the CDE orchestrator
- ☐ Simplicity of infrastructure configuration
- ☐ Flexibility and customizability
- ☐ Cloud availability
- ☐ On-premises availability
- ☐ Product pricing
- ☐ Infrastructure pricing
- ☐ Support for VS Code
- ☐ Support for JetBrains IDEs
- ☐ Integration with other developer tools
- ☐ Ease of support and maintenance
- ☐ Other, please specify: _____
- ☐ Nothing

Logic: Hidden unless: #348 Question "When you develop remotely, what do you connect to?" is one of the following answers ("Amazon CodeCatalyst","Coder","JetBrains CodeCanvas","CodeSandbox","Daytona","Gitpod","GitHub Codespaces","Google Cloud Workstations","Microsoft Dev Box","OpenShift Dev Spaces","Replit","GitLab remote development (Web IDE)","Project IDX","Custom cloud development environment","VDI-based solution")

What, if anything, do you find frustrating about the cloud development environments you use?

Select up to three items you dislike the most.*

- ☐ Insufficient overall value
- ☐ Long time required to start the environment
- ☐ Poor developer experience in remote IDEs
- ☐ Poor usability of the CDE orchestrator for developers
- ☐ Poor usability of configuring the CDE orchestrator
- ☐ Difficult infrastructure configuration
- ☐ Poor flexibility or customizability
- ☐ No cloud availability
- ☐ No on-premises availability
- ☐ Product pricing
- ☐ Infrastructure pricing
- ☐ No support for VS Code
- ☐ No support for JetBrains IDEs
- ☐ Poor integration with other developer tools
- ☐ Difficult support and maintenance
- ☐ Other, please specify:: _____
- ☐ None

How satisfied or dissatisfied are you with the remote development tools currently on the market?

- () Very dissatisfied
1 () 2 () 3 () 4 () Very satisfied
5

Static analysis 1 (employed+develop)

Logic: Hidden unless: (#2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time") AND #3 Question "Which of the following best describe your job role(s) regardless of your position level?" is one of the following answers ("Developer / Programmer / Software Engineer", "Team Lead", "CIO / CEO / CTO"))

Think about the various checks that your team used in the past year before delivering code to production.

Logic: Hidden unless: (#2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time") AND #3 Question "Which of the following best describe your job role(s) regardless of your position level?" is one of the following answers ("Developer / Programmer / Software Engineer", "Team Lead", "CIO / CEO / CTO"))

Which of the following checks did your code absolutely have to pass to be considered production-ready?*

- ☐ Code passes static code analysis
- ☐ All unit tests written for the existing code pass
- ☐ All unit tests written for the new or updated code pass
- ☐ All integration and/or API tests pass
- ☐ Code coverage target has been met
- ☐ Feedback from peer code reviews is positive
- ☐ The quality assurance team approves the code
- ☐ All functional requirements specified in the documentation, user stories, etc. are met
- ☐ The number of identified bugs and issues doesn't exceed a pre-set maximum
- ☐ Performance test results are satisfactory
- ☐ Security test results are satisfactory
- ☐ External libraries' licenses are compatible with your product's license
- ☐ External libraries are free of vulnerabilities
- ☐ Other, please specify: _____
- ☐ None of the above

Static analysis 2

Which other checks did you use that weren't mandatory for code to pass?*

- ☐ Code passes static code analysis
- ☐ All unit tests written for the existing code pass
- ☐ All unit tests written for the new or updated code pass
- ☐ All integration and/or API tests pass
- ☐ Code coverage target has been met
- ☐ Feedback from peer code reviews is positive
- ☐ The quality assurance team approves the code
- ☐ All functional requirements specified in the documentation, user stories, etc. are met
- ☐ The number of identified bugs and issues doesn't exceed a pre-set maximum
- ☐ Performance test results are satisfactory
- ☐ Security test results are satisfactory
- ☐ External libraries' licenses are compatible with your product's license
- ☐ External libraries are free of vulnerabilities
- ☐ Other, please specify:: _____
- ☐ None of the above

Logic: Hidden unless: (#356 Question "Which other checks did you use that weren't mandatory for code to pass?" is one of the following answers ("Code passes static code analysis") OR #355 Question "Which of the following checks did your code absolutely have to pass to be considered production-ready?" is one of the following answers ("Code passes static code analysis"))

Which of the following tools do you use for automated code analysis or static analysis?*

- ☐ IDE or editor
- ☐ ESLint

- ☐ Flake8
 - ☐ ktlint
 - ☐ Mypy
 - ☐ PHPStan
 - ☐ Pylint
 - ☐ JetBrains Qodana
 - ☐ Snyk
 - ☐ SonarCloud
 - ☐ SonarLint
 - ☐ SonarQube
 - ☐ PC-lint / FlexeLint
 - ☐ Coverity
 - ☐ Cppcheck
 - ☐ IAR Visual State
 - ☐ Perforce Klocwork
 - ☐ Polyspace
 - ☐ Helix QAC
 - ☐ Astrée
 - ☐ Understand
 - ☐ LDRA
 - ☐ Axivion
 - ☐ An in-house developed tool
 - ☐ Other, please specify:: _____
-

Brand Equity 1: Familiarity

The following questions are about software development tool brands.

How familiar are you with each of the following brands?

| | I don't know about it | I only know the name | I know a little about it | I know a lot about it |
|--------------------|-----------------------|----------------------|--------------------------|-----------------------|
| JetBrains | () | () | () | () |
| Kotlin | () | () | () | () |
| GitHub | () | () | () | () |
| GitLab | () | () | () | () |
| OpenAI | () | () | () | () |
| GitHub Copilot | () | () | () | () |
| Cursor | () | () | () | () |
| Visual Studio Code | () | () | () | () |
| Microsoft | () | () | () | () |
| Apple | () | () | () | () |
| Atlassian | () | () | () | () |

Testing (if Tester show by default, Random if activities testing, 2 of 9 sections, on page 9 of 19 q shown)

The following questions are about testing and quality assurance.

Is testing an integral part of the development process in your company or team?*

- ☐ Yes
- ☐ No
- ☐ I'm not sure

Do you lead or manage a QA team?*

- ☐ Yes
- ☐ No

Logic: Show/hide trigger exists.

Which of the following best describes your QA role (regardless of the level of your position)?*

- ☐ Manual QA Specialist
 - ☐ QA / Test Engineer
 - ☐ QA / Test Automation Engineer
 - ☐ SDET (Software Development Engineer In Test)
 - ☐ I'm a QA professional working in another area, please specify::
-
- ☐ I'm not a QA professional

Logic: Hidden unless: #381 Question "Which of the following best describes your QA role (regardless of the level of your position)?" is one of the following answers ("Manual QA Specialist", "QA / Test Engineer", "QA / Test Automation Engineer", "SDET (Software Development Engineer In Test)", "I'm a QA professional working in another area, please specify:")

How long have you been working as a QA specialist?*

- ☐ Less than 6 months
- ☐ From 6 months to less than 1 year
- ☐ From 1 to less than 3 years

- ☐ From 3 to less than 5 years
- ☐ From 5 to less than 10 years
- ☐ 10 years or more

What do you test?*

- ☐ Web applications (UI)
- ☐ Web applications (backend API)
- ☐ Mobile applications
- ☐ Desktop applications
- ☐ Other, please specify:: _____

Do you create automated tests?*

- ☐ Yes, using scripting
- ☐ Yes, using no-code or low-code tools
- ☐ Yes, using both scripting and no-code / low-code tools
- ☐ No

Does your testing process include test case design?*

- ☐ Yes
- ☐ No
- ☐ I'm not sure

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

How are test design and test execution performed in your company?*

- ☐ Separately (performed by different people)

- ☐ Together (performed by the same people)
- ☐ I'm not sure

Which types of tests are used in your project?*

- ☐ None
- ☐ Regression testing
- ☐ Functional testing
- ☐ Security testing
- ☐ Usability testing
- ☐ Performance testing
- ☐ Stress testing
- ☐ Stability testing
- ☐ Smoke testing
- ☐ Acceptance testing
- ☐ Accessibility testing
- ☐ Sanity testing
- ☐ Load testing
- ☐ Volume testing
- ☐ Beta testing
- ☐ Production testing
- ☐ I'm not sure
- ☐ Other, please specify:: _____

What proportion of testers and QA engineers in your project have programming skills?*

- ☐ 0%–25%
- ☐ 26%–50%
- ☐ 51%–75%
- ☐ 76%–100%
- ☐ I don't know

What proportion of testers and QA engineers in your project do only manual testing?*

- ☐ 0%–25%
- ☐ 26%–50%
- ☐ 51%–75%
- ☐ 76%–100%
- ☐ I don't know

Logic: Show/hide trigger exists. Hidden unless: #3 Question "Which of the following best describe your job role(s) regardless of your position level?" is one of the following answers ("Tester / QA Engineer")

Which kinds of tools do you use to store test cases?*

- ☐ I don't use any specific tools
- ☐ Office documents (such as Excel spreadsheets or Word docs)
- ☐ Special test case management tools
- ☐ Other, please specify: _____

Logic: Hidden unless: #390 Question "Which kinds of tools do you use to store test cases?" is one of the following answers ("Special test case management tools")

Which test management tools do you use?*

- ☐ None
- ☐ Microsoft Azure
- ☐ Allure TestOps
- ☐ Qase
- ☐ qTest
- ☐ PractiTest
- ☐ Zephyr
- ☐ TestFLO for Jira
- ☐ XQual
- ☐ TestCaseLab

- ☐ QAComplete
- ☐ Plutora
- ☐ SpiraTest by Inflectra
- ☐ Meliora Testlab
- ☐ QMetry
- ☐ Testpad
- ☐ aqua cloud
- ☐ Reqtest
- ☐ Adaptavist
- ☐ TestCollab
- ☐ TestLodge
- ☐ TestRail
- ☐ QACoverage
- ☐ TestLink
- ☐ HP ALM
- ☐ Xray for Jira
- ☐ Custom tool
- ☐ Other, please specify:: _____

Which of the following test frameworks do you use, if any?*

- ☐ None
- ☐ TestNG
- ☐ JUnit
- ☐ pytest
- ☐ Mocha
- ☐ Cypress
- ☐ Selenium
- ☐ Selenide
- ☐ Playwright
- ☐ NUnit / xUnit.net
- ☐ MSTest / VSTest

- ☐ Robot Framework
- ☐ Cucumber
- ☐ RSpec
- ☐ behave
- ☐ Jest
- ☐ Appium
- ☐ Espresso
- ☐ Custom framework
- ☐ Other, please specify:: _____

Which of the following test tools do you use, if any?*

- ☐ None
- ☐ Allure
- ☐ Apache JMeter
- ☐ Katalon Studio
- ☐ Postman
- ☐ Gatling
- ☐ ReportPortal
- ☐ TestCafe
- ☐ Puppeteer
- ☐ k6
- ☐ LoadRunner
- ☐ TESSY
- ☐ LambdaTest
- ☐ TestComplete
- ☐ AppliTools
- ☐ testRigor
- ☐ Rainforest QA
- ☐ Qase
- ☐ Custom tool
- ☐ Other, please specify:: _____

Which programming languages do you use for test automation in your project?*

- ☐ None
- ☐ Python
- ☐ JavaScript / TypeScript
- ☐ Java
- ☐ Kotlin
- ☐ C#
- ☐ Perl
- ☐ Ruby
- ☐ Tcl
- ☐ PHP
- ☐ Groovy
- ☐ Scala
- ☐ Clojure
- ☐ Go
- ☐ Bash
- ☐ C++
- ☐ Rust
- ☐ Swift
- ☐ Other, please specify:: _____

Which behavior-driven development (BDD) technologies do you use, if any?*

- ☐ I don't use BDD
- ☐ Cucumber
- ☐ JBehave
- ☐ Lettuce
- ☐ Behat software tools
- ☐ Gauge
- ☐ Custom tool
- ☐ Other, please specify:: _____

Would you like to participate in further research relating to JetBrains QA tools?

☐ Yes

☐ No

Team-tools (random if employed)

Which of the following types of tools do you regularly use?*

☐ Issue tracking / Task management / Project management tools (e.g. Atlassian, YouTrack, Microsoft Teams)

☐ Code review tools (e.g. Gerrit, Crucible)

☐ Static analysis tools (e.g. Code Climate)

☐ Source code collaboration tools (e.g. GitHub, GitLab, Bitbucket)

☐ Continuous integration (CI) / Continuous delivery (CD) tools (e.g. Jenkins, TeamCity)

☐ None

Which continuous integration (CI) system do you regularly use in your company or organization?

☐ None

☐ GoCD

☐ Travis CI

☐ Bamboo

☐ Google Cloud Build

☐ CircleCI

☐ Custom tool

☐ AWS CodePipeline / AWS CodeStar

☐ GitHub Actions

- ☐ GitLab CI
- ☐ Azure DevOps Server
- ☐ TeamCity
- ☐ AppVeyor
- ☐ Buildkite
- ☐ Bitbucket Pipelines
- ☐ Harness
- ☐ Jenkins
- ☐ CloudBees CodeShip
- ☐ Epic Horde
- ☐ Drone CI
- ☐ Other, please specify:: _____

Which continuous integration (CI) system(s) do you regularly use for your personal or side projects?

- ☐ None
- ☐ GoCD
- ☐ Travis CI
- ☐ Bamboo
- ☐ Google Cloud Build
- ☐ CircleCI
- ☐ Custom tool
- ☐ AWS CodePipeline / AWS CodeStar
- ☐ GitHub Actions
- ☐ GitLab CI
- ☐ Azure DevOps Server
- ☐ TeamCity
- ☐ AppVeyor
- ☐ Buildkite
- ☐ Bitbucket Pipelines
- ☐ Harness
- ☐ Jenkins

- ☐ CloudBees CodeShip
- ☐ Epic Horde
- ☐ Drone CI
- ☐ Other, please specify:: _____

Which of the following tools do you use for project and task management in your company or organization?*

- ☐ None
- ☐ Jira
- ☐ GitHub Issues
- ☐ Trello
- ☐ GitLab Issues
- ☐ Redmine
- ☐ YouTrack
- ☐ Asana
- ☐ Azure DevOps Server
- ☐ Microsoft Project
- ☐ Basecamp
- ☐ monday.com
- ☐ Wrike
- ☐ Linear
- ☐ Custom tool
- ☐ Other, please specify:: _____

Which of the following tools do you use for project and task management for your side, open-source, or personal projects?*

- ☐ None
- ☐ Jira
- ☐ GitHub Issues
- ☐ Trello
- ☐ GitLab Issues

- ☐ Redmine
- ☐ YouTrack
- ☐ Asana
- ☐ Azure DevOps Server
- ☐ Microsoft Project
- ☐ Basecamp
- ☐ monday.com
- ☐ Wrike
- ☐ Linear
- ☐ Custom tool
- ☐ Other, please specify:: _____

Which version control system(s) do you regularly use, if any?*

- ☐ None
- ☐ Concurrent Versions System (CVS)
- ☐ Apache Subversion (SVN)
- ☐ Git
- ☐ Mercurial
- ☐ Perforce
- ☐ Helix Core (Perforce Helix)
- ☐ Plastic SCM
- ☐ Azure DevOps Server
- ☐ Other, please specify:: _____

Which version control service(s) do you regularly use in your company or organization?*

- ☐ None
- ☐ GitHub
- ☐ GitLab
- ☐ Azure DevOps Server
- ☐ AWS CodeCommit

- ☐ SourceForge
- ☐ Bitbucket
- ☐ Perforce
- ☐ Helix Core (Perforce Helix)
- ☐ JetBrains Space
- ☐ Custom tool
- ☐ Other, please specify:: _____

Which version control service(s) do you regularly use for your personal or side projects?*

- ☐ None
 - ☐ GitHub
 - ☐ GitLab
 - ☐ Azure DevOps Server
 - ☐ AWS CodeCommit
 - ☐ SourceForge
 - ☐ Bitbucket
 - ☐ Perforce
 - ☐ Helix Core (Perforce Helix)
 - ☐ JetBrains Space
 - ☐ Custom tool
 - ☐ Other, please specify:: _____
-

Team tools CI+IT+VCS (5 of 7q shown)

Which of the following types of tools have you and/or your team adopted or migrated to in the past 12 months?*

- ☐ Issue tracking / Task management / Project management tools (e.g. Atlassian, YouTrack, Microsoft Teams)

- ☐ Code review tools (e.g. Gerrit, Crucible)
- ☐ Static analysis tools (e.g. Code Climate)
- ☐ Service desk or helpdesk automation solution (e.g. Zendesk, YouTrack Helpdesk)
- ☐ Source code collaboration tools (e.g. GitHub, GitLab, Bitbucket)
- ☐ Continuous integration (CI) / Continuous delivery (CD) tools (e.g. Jenkins, TeamCity)
- ☐ None

Which of the following types of tools do you use in the cloud?*

- ☐ I don't use any of these tools
- ☐ Continuous integration tool
- ☐ Continuous delivery tool
- ☐ Static analysis tool
- ☐ Automated code review
- ☐ Issue tracking / Task management / Project management tools

Which type of installation does your primary CI/CD tool have?

- ☐ Installed on my own premises
- ☐ Installed on cloud instances that are managed by me or my company
- ☐ Fully managed cloud service
- ☐ Other, please specify:: _____

How do you use AI in your task management workflow?*

- ☐ I do not use AI for task management
- ☐ I use AI for setting reminders and scheduling meetings
- ☐ I use AI for automating repetitive tasks (e.g. email sorting, report generation, etc.)
- ☐ I use AI for prioritizing tasks and managing deadlines
- ☐ I use AI for delegating tasks and workflow optimization
- ☐ I use AI-powered insights to improve productivity and efficiency
- ☐ I rely on AI-integrated project management tools (e.g. Notion AI, ClickUp AI, etc.)

☐ I experiment with AI but haven't fully integrated it into my workflow yet

☐ Other, please specify:: _____

Which tools do you use for artifact and package management in your company or organization?*

☐ None

☐ I'm not sure

☐ GitHub

☐ GitLab

☐ Azure DevOps Server / Container Registry

☐ JFrog Artifactory

☐ Sonatype Nexus Repository

☐ Docker Hub

☐ AWS Container Registry / CodeArtifact

☐ NuGet

☐ npm

☐ JetBrains Space

☐ Custom tool

☐ Other, please specify:: _____

For which of the following external tools and actions do you use plugins to integrate with your IDE?*

☐ None

☐ Git hosting

☐ Code review tools

☐ Merge requests

☐ Issue tracking

☐ Pipelines

☐ Other, please specify:: _____

Which tools do you use for knowledge sharing and document collaboration in your company or organization?*

- ☐ None
 - ☐ Confluence
 - ☐ MediaWiki
 - ☐ GitHub Wiki
 - ☐ Stack Overflow for Teams
 - ☐ GitLab
 - ☐ Notion
 - ☐ Microsoft Docs / Microsoft 365 / SharePoint
 - ☐ Jive
 - ☐ Google Docs / Google Sheets / Google Drive
 - ☐ Redmine Wiki
 - ☐ DokuWiki
 - ☐ OneNote
 - ☐ Zoho Office Suite
 - ☐ Dropbox Paper
 - ☐ Quip
 - ☐ YouTrack Knowledge Base
 - ☐ Custom tool
 - ☐ Other, please specify:: _____
-

Service desk / Helpdesk

Which service desk or helpdesk tools do you use in your company or organization?*

- ☐ None
- ☐ Zendesk
- ☐ Jira Service Desk
- ☐ HubSpot Service Hub

- ☐ Help Scout
- ☐ Salesforce
- ☐ Zoho Desk
- ☐ ServiceNow
- ☐ Freshdesk
- ☐ Microsoft Dynamics
- ☐ HelpDesk
- ☐ Bitrix24
- ☐ Kayako
- ☐ ProProfs Help Desk
- ☐ ManageEngine
- ☐ Gorgias
- ☐ Kustomer
- ☐ Front
- ☐ HappyFox
- ☐ Helpjuice
- ☐ Intercom
- ☐ LiveAgent
- ☐ Groove
- ☐ AzureDesk
- ☐ Hiver
- ☐ Sugar Serve
- ☐ YouTrack Helpdesk
- ☐ Other, please specify:: _____

For which purposes do you use service desk or helpdesk tools?*

- ☐ Processing customer support tickets
- ☐ Processing internal support tickets
- ☐ Providing self-service support (Knowledge base / Help center)
- ☐ Automating workflows
- ☐ Reporting and analytics

[] Other, please specify:: _____

How many agents are there in your workspace?*

- ☐ I don't know
 - ☐ 1–10
 - ☐ 11–50
 - ☐ 51–100
 - ☐ 101–500
 - ☐ 501–1,000
 - ☐ 1,001 or more
-

Data-Science (logic)

The following questions are about data science, data analytics, and machine learning.

What kind of activity is data science, data analytics, data engineering, and machine learning for you?*

| | It's my primary professional activity | It's a secondary professional activity | It's just a hobby | It serves educational purposes | I'm not involved |
|-------------------|--|---|----------------------------------|---|-----------------------------|
| Data science | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Data analytics | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | | |
|------------------|-----|-----|-----|-----|-----|
| Machine learning | () | () | () | () | () |
| Data engineering | () | () | () | () | () |
| AI engineering | () | () | () | () | () |

Logic: Show/hide trigger exists.

In which of the following activities are you involved?*

- ☐ None
- ☐ A/B testing
- ☐ Data orchestration
- ☐ Data cleaning or preprocessing
- ☐ Data pipelines
- ☐ Storage architecture
- ☐ Machine learning modeling
- ☐ Machine learning operations
- ☐ Exploratory data analysis
- ☐ Statistical analysis
- ☐ Data visualization
- ☐ Gathering data or data scraping
- ☐ Reporting and data storytelling
- ☐ Dashboarding
- ☐ Predictive analytics
- ☐ Other, please specify:: _____

Which of the following AI tools do you use to assist your data analysis work on a regular basis?*

- ☐ ChatGPT

- ☐ Claude
- ☐ Google Gemini
- ☐ Other web-based AI tool, please specify::

-
- ☐ JetBrains AI Assistant
 - ☐ GitHub Copilot
 - ☐ CodeGPT plugin
 - ☐ Other in-IDE assistant, please specify::

☐ Other, please specify:: _____

Page entry logic: This page will show when: (((Question "Data science" is one of the following answers ("It's my primary professional activity", "It's a secondary professional activity", "It's just a hobby", "It serves educational purposes") OR Question "Data analytics" is one of the following answers ("It's my primary professional activity", "It's a secondary professional activity", "It's just a hobby", "It serves educational purposes")) OR Question "Machine learning" is one of the following answers ("It's my primary professional activity", "It's a secondary professional activity", "It's just a hobby", "It serves educational purposes")) OR Question "Data engineering" is one of the following answers ("It's my primary professional activity", "It's a secondary professional activity", "It's just a hobby", "It serves educational purposes")) OR Question "AI engineering" is one of the following answers ("It's my primary professional activity", "It's a secondary professional activity", "It's just a hobby", "It serves educational purposes"))

Data Science 2 (6 of 10 q shown)

Which data formats do you work with?*

- ☐ None
- ☐ Semi-structured textual data (JSON, XML, etc.)
- ☐ Non-structured data (TXT, PDF, etc.)
- ☐ Tabular data (CSV, Excel, etc.)
- ☐ Databases
- ☐ Data lakes / Data warehouses
- ☐ Images

- ☐ Audio
- ☐ Video
- ☐ Other, please specify:: _____

Which IDEs or editors do you use for data science or data analytics?*

- ☐ None
- ☐ PyCharm Professional Edition
- ☐ PyCharm Community Edition
- ☐ DataGrip
- ☐ Jupyter notebooks
- ☐ JupyterLab
- ☐ JupyterHub
- ☐ Datalore
- ☐ DataSpell
- ☐ Zeppelin
- ☐ RStudio
- ☐ Databricks notebooks
- ☐ Google Colab
- ☐ Visual Studio Code
- ☐ Kaggle notebooks
- ☐ Azure notebooks
- ☐ Amazon SageMaker
- ☐ Deepnote
- ☐ Emacs
- ☐ DBeaver
- ☐ IntelliJ IDEA
- ☐ Hex
- ☐ Cursor or another AI-first IDE or editor
- ☐ Snowflake notebooks
- ☐ Dbt Cloud IDE
- ☐ Custom solution

☐ Other, please specify:: _____

How much of your working time is spent inside notebooks?*

- ☐ I don't use notebooks
- ☐ Less than 10%
- ☐ 11–20%
- ☐ 21–40%
- ☐ More than 40%

Piping: Piped Values From Question 416. (In which of the following activities are you involved?)

What do you use notebooks for?*

☐ Other, please specify:: _____

What do you use to store the data you work with?*

- ☐ I don't work with data
- ☐ I store data locally on my computer
- ☐ SQL databases in the cloud
- ☐ SQL databases on internal servers
- ☐ NoSQL databases (Mongo, NoSQL)
- ☐ Cloud bucket storage (AWS S3, GCP Cloud Storage, Azure Blob Storage)
- ☐ Big data in the cloud (Hadoop, Spark)
- ☐ Big data on internal servers (Hadoop, Spark)
- ☐ Custom hosted services
- ☐ Other, please specify:: _____

Which enterprise data science platforms do you use, if any?*

- ☐ None
- ☐ Amazon SageMaker
- ☐ IBM Watson Studio
- ☐ H2O
- ☐ Alteryx
- ☐ Vertex AI (Google Cloud AI Platform)
- ☐ Azure Machine Learning Studio
- ☐ Azure Databricks
- ☐ DataRobot
- ☐ Gradient
- ☐ Domino Data Lab
- ☐ Cloudera Data Science Workbench (CDSW)
- ☐ Datalore Enterprise
- ☐ Dataiku
- ☐ Snowflake
- ☐ AWS Databricks
- ☐ Metabase
- ☐ KNIME
- ☐ Other, please specify:: _____

Including yourself, how many members does your data team have?*

- ☐ I'm not part of a data team
- ☐ Fewer than 5
- ☐ 5–10
- ☐ 11–20
- ☐ 21–50
- ☐ 51–100
- ☐ More than 100

Do you have a data engineer in your team?*

- ☐ Yes, we have one dedicated to our team
- ☐ Yes, but shared across teams
- ☐ No, but we have someone handling data engineering tasks informally
- ☐ No, we rely on external support
- ☐ No, and we don't currently need one
- ☐ No, but we need one

Logic: Show/hide trigger exists.

Do you use dbt?*

- ☐ Yes
- ☐ No
- ☐ I don't know

Logic: Hidden unless: #426 Question "Do you use dbt?" is one of the following answers ("Yes")

Which dbt do you use?

- ☐ dbt Core
- ☐ dbt Cloud
- ☐ Both

Page entry logic: This page will show when: ((Question "Machine learning" is one of the following answers ("It's my primary professional activity", "It's a secondary professional activity", "It serves educational purposes") OR #5 Question "In which kinds of activities are you involved?" is one of the following answers ("Machine learning")) OR #416 Question "In which of the following activities are you involved?" is one of the following answers ("Machine learning modeling", "Machine learning operations"))

Machine Learning (logic) (7 of 9q shown)

Logic: Show/hide trigger exists.

Do you train machine learning or deep learning models?*

☐ Yes

☐ No

Do you work with LLMs as an ML engineer?*

☐ Yes

☐ No

Logic: Hidden unless: #428 Question "Do you train machine learning or deep learning models?" is one of the following answers ("Yes")

Which type of models do you train?*

☐ I don't train models

☐ I train my own models

☐ I fine-tune pre-trained models

☐ I only use pre-trained models without fine-tuning them

Logic: Hidden unless: #416 Question "In which of the following activities are you involved?" is one of the following answers ("Machine learning modeling", "Machine learning operations", "Exploratory data analysis")

Which machine learning framework(s) do you use?*

☐ None

☐ scikit-learn

☐ TensorFlow

☐ Keras

☐ XGBoost

- ☐ PyTorch
- ☐ LightGBM
- ☐ CatBoost
- ☐ Prophet
- ☐ fast.ai
- ☐ Tidymodels
- ☐ JAX
- ☐ Other, please specify:: _____

For which purposes are AI or ML-powered tools used in your company or organization?*

- ☐ Supporting internal IT operations
- ☐ Improving understanding of corporate data
- ☐ Driving production applications
- ☐ Reducing business costs
- ☐ Aiding research and development of new products
- ☐ Supporting other business functions
- ☐ Supporting manufacturing and production operations
- ☐ Using AI-based features in products or services
- ☐ Researching and piloting potential applications
- ☐ Improving productivity and efficiency of internal business processes
- ☐ Other, please specify:: _____

Logic: Hidden unless: #428 Question "Do you train machine learning or deep learning models?" is one of the following answers ("Yes")

On average, how many training sessions (experiments) do you run on GPUs or TPUs per month?*

- ☐ I don't use GPUs or TPUs
- ☐ Fewer than 5
- ☐ 5–10
- ☐ 11–20

☐ More than 20

Logic: Hidden unless: #428 Question "Do you train machine learning or deep learning models?" is one of the following answers ("Yes")

On average, how many hours does it take you to train one model?*

☐ Less than 2 hours

☐ From 2 to less than 10 hours

☐ From 10 to less than 100 hours

☐ From 100 to less than 1,000 hours

☐ 1,000 hours or more

☐ Other, please specify:: _____

What sorts of GPU computational resources do you use for data science tasks?*

☐ None

☐ Local resources

☐ On-premises company servers

☐ Amazon Web Services

☐ Google Cloud Platform

☐ Microsoft Azure

☐ GPU-specialized cloud providers

☐ Others, please specify:: _____

Logic: Hidden unless: #416 Question "In which of the following activities are you involved?" is one of the following answers ("Machine learning modeling","Machine learning operations")

Which specific tools do you use for tracking model training experiments?*

☐ None

☐ TensorBoard

☐ WandB (Weights & Biases)

☐ MLflow

☐ Other, please specify: _____

Page entry logic: This page will show when: #416 Question "In which of the following activities are you involved?" is one of the following answers ("Data visualization", "Reporting and data storytelling", "Dashboarding")

DS Presenting the results

What tools do you use to present the results of your research?*

☐ I present the notebook

☐ Tableau

☐ Microsoft Power BI

☐ Plotly Dash

☐ Voila

☐ Looker

☐ Streamlit

☐ Qlik

☐ PowerPoint, Google Slides, or similar

☐ MS Word, Google Docs, or similar

☐ Spreadsheet editor (Excel, Google Sheets)

☐ Other, please specify: _____

When you present your work, which format do your results typically take?*

☐ Notebook with code

☐ Python script or Python package

☐ Data story

☐ Set of metrics, numbers, or single-line answers

- ☐ Visualization
- ☐ Dashboard
- ☐ Separate presentation
- ☐ Written report
- ☐ Other, please specify:: _____

Who is the main target audience of your reports?*

- ☐ Technical users who can read code
- ☐ Business users who are interested in numbers and charts
- ☐ Other, please specify:: _____

Is interactivity required when presenting your results? (For example, having an interactive report with several dropdowns that change the charts or findings based on the selection.)*

- ☐ Yes, interactivity is required
- ☐ Interactivity is not required but would be useful
- ☐ No, interactivity is not required; a static document is sufficient

Teachers (if job_role = Teacher, OR kind of activities include teaching)

Logic: Show/hide trigger exists.

What is teaching for you?*

- ☐ Primary activity
- ☐ Secondary activity
- ☐ I don't teach
- ☐ Other, please specify:: _____ *

Logic: Show/hide trigger exists. Hidden unless: #441 Question "What is teaching for you?" is one of the following answers ("Primary activity","Secondary activity","Other, please specify:")

Which type(s) of institution do you teach at? Please select all that apply.*

- ☐ Private company / organization
- ☐ University
- ☐ Community college
- ☐ High school
- ☐ Vocational school
- ☐ Training center
- ☐ Online education platform
- ☐ Other, please specify:: _____ *

Logic: Hidden unless: #442 Question "Which type(s) of institution do you teach at? Please select all that apply." is one of the following answers ("University","Community college")

Which level of education do you teach?*

- ☐ Associate
- ☐ Bachelor
- ☐ Specialist
- ☐ Master
- ☐ Postgraduate
- ☐ High school
- ☐ Other, please specify:: _____ *

Logic: Hidden unless: #441 Question "What is teaching for you?" is one of the following answers ("Primary activity","Secondary activity","Other, please specify:")

Which subject(s) do you teach?*

- ☐ Computer science
- ☐ Software engineering
- ☐ Other engineering field
- ☐ Mathematics
- ☐ Physics
- ☐ Biology
- ☐ Chemistry
- ☐ Economics
- ☐ Social sciences
- ☐ Art / Humanities
- ☐ Other, please specify:: _____ *

Logic: Hidden unless: #441 Question "What is teaching for you?" is one of the following answers ("Primary activity", "Secondary activity", "Other, please specify:")

Which programming languages do you currently teach or have you taught in the past?*

- ☐ None
- ☐ Haskell
- ☐ Python
- ☐ Java
- ☐ C++
- ☐ C#
- ☐ C
- ☐ PHP
- ☐ Pascal
- ☐ Kotlin
- ☐ JavaScript
- ☐ R
- ☐ Rust
- ☐ Other, please specify:: _____ *

Logic: Hidden unless: #441 Question "What is teaching for you?" is one of the following answers ("Primary activity","Secondary activity","Other, please specify:")

Which of the following tools do you recommend to students?*

- ☐ None
- ☐ JetBrains Academy Plugin
- ☐ RStudio
- ☐ IntelliJ IDEA
- ☐ Android Studio
- ☐ Visual Studio
- ☐ Xcode
- ☐ PhpStorm
- ☐ GoLand
- ☐ WebStorm
- ☐ RubyMine
- ☐ PyCharm
- ☐ Sublime Text
- ☐ Atom
- ☐ Visual Studio Code
- ☐ Notepad++
- ☐ AppCode
- ☐ CLion
- ☐ Eclipse
- ☐ NetBeans
- ☐ Qt Creator
- ☐ Emacs
- ☐ TextMate
- ☐ Rider
- ☐ gedit
- ☐ IPython / Jupyter Notebook
- ☐ ChatGPT
- ☐ GitHub Copilot
- ☐ Google Gemini

☐ Microsoft Bing Chat

☐ Other, please specify:: _____ *

Education (random)

Which of the following best describes the highest level of formal education that you've completed?*

- ☐ I never completed any formal education
- ☐ Primary / Elementary school
- ☐ Secondary school (e.g. American high school, German Realschule or Gymnasium, etc.)
- ☐ Incomplete college or university study without earning a bachelor's degree
- ☐ Bachelor's degree (BA, BS, BEng, etc.)
- ☐ Master's degree (MA, MS, MEng., MBA, etc.)
- ☐ Professional degree (JD, MD, etc.)
- ☐ Doctoral degree (PhD, EdD., etc.)
- ☐ Other, please specify:: _____ *

Have you ever made a career transition to tech or IT?*

- ☐ Yes, I worked in another field before changing to tech / IT
- ☐ No, tech / IT has always been my primary field
- ☐ Other, please specify:: _____ *

Which programming languages have you been learning in the past 12 months, if any?*

- ☐ I've not been learning any programming languages
- ☐ Java
- ☐ C
- ☐ C++

- ☐ Python
 - ☐ C#
 - ☐ PHP
 - ☐ JavaScript
 - ☐ Ruby
 - ☐ Kotlin
 - ☐ Swift
 - ☐ Scala
 - ☐ Go
 - ☐ R
 - ☐ TypeScript
 - ☐ Haskell
 - ☐ Elixir
 - ☐ Clojure
 - ☐ Rust
 - ☐ Other, please specify:: _____
-

Security (random)

The following questions are about security.

Do you follow a secure software development life cycle?*

- ☐ Yes
- ☐ No

Which types of tools do you use for secure development?*

- ☐ I don't use any tools for secure development

- ☐ IDE or editor
- ☐ CI/CD solution
- ☐ Issue tracker
- ☐ Specialized / Dedicated security software
- ☐ Other, please specify:: _____

Which features of your IDE do you use to help write secure code?*

- ☐ Built-in security inspections
- ☐ Structural search and replace
- ☐ Third-party plugins with security inspections
- ☐ My own IDE plugin for handling custom cases
- ☐ Other, please specify:: _____
- ☐ I don't use IDE features to help me write secure code

Would you be willing to send your code to a third party for security analysis?*

- ☐ No, I would prefer not to send my code to a third party
- ☐ No, this is prohibited in our organization
- ☐ Yes
- ☐ Other, please specify:: _____ *

In general, how would you prefer tools to help you with security problems?*

- ☐ I'd prefer tools not to help me with security problems
- ☐ Offer a solution generated by a predefined logic
- ☐ Remove vulnerable code
- ☐ Block the execution of vulnerable code
- ☐ Offer a solution generated by AI
- ☐ Provide a detailed description, highlight the problem, and let me decide
- ☐ Other, please specify:: _____

Logic: Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000", "I'm not sure")

In your team, company, or organization, who makes the decision to update a project's external dependency?*

- ☐ Any software developer
- ☐ A software developer responsible for related source code
- ☐ Technical stakeholders
- ☐ Business stakeholders
- ☐ Security specialists
- ☐ Multiple different roles
- ☐ Other, please specify: _____

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Founder or business owner in software or tech", "Working student")

Who is responsible for secure software development in your company or organization?*

- ☐ Software developers
 - ☐ Quality assurance specialists
 - ☐ Site reliability engineers (SREs)
 - ☐ DevOps engineers
 - ☐ DevSecOps engineers
 - ☐ Security professionals inside each development team
 - ☐ Dedicated security team
 - ☐ Security champions
 - ☐ Other, please specify: _____
-

Hardware (random)

The following questions are about hardware.

How much RAM do you have on the computer you use most often?*

- ☐ I don't know
- ☐ Less than 512 MB
- ☐ From 512 MB to less than 1 GB
- ☐ From 1 to less than 2 GB
- ☐ From 2 to less than 4 GB
- ☐ From 4 to less than 8 GB
- ☐ From 8 to less than 16 GB
- ☐ From 16 to less than 32 GB
- ☐ From 32 to less than 64 GB
- ☐ From 64 to less than 128 GB
- ☐ 128 GB or more
- ☐ Other, please specify:: _____ *

How many monitors do you use for your work?*

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4
- ☐ Other, please specify:: _____ *

Low-code/No-code (logic)

What do you or your company use low-code/no-code platforms for?

- ☐ I don't know
- ☐ Business process automation
- ☐ Decision-making automation
- ☐ Document and data processing
- ☐ Content management systems
- ☐ Robotic automation
- ☐ Integration systems
- ☐ End-user applications
- ☐ Analytics and business intelligence applications
- ☐ Websites and applications
- ☐ Mobile applications
- ☐ Desktop applications
- ☐ Prototyping of new products and services
- ☐ Other, please specify: _____

Which platforms do you or your company use for low-code/no-code development?

- ☐ None
- ☐ Airtable
- ☐ Appian
- ☐ Bubble
- ☐ Directual
- ☐ FlutterFlow
- ☐ Glide
- ☐ Google AppSheet
- ☐ Make (formerly Integromat)
- ☐ Mendix
- ☐ Microsoft Power Apps
- ☐ Nintex
- ☐ OutSystems

- ☐ Pega
- ☐ Quickbase
- ☐ Salesforce Platform
- ☐ ServiceNow
- ☐ Softr
- ☐ Zoho Creator
- ☐ Other, please specify: _____

What key benefits of using a low-code/no-code platform do you see?

- ☐ I'm not sure
- ☐ Accelerating the development of applications
- ☐ Involving business-oriented team members in the application development process
- ☐ Saving on application development costs by using a less expensive workforce
- ☐ Reducing operational costs associated with running the applications
- ☐ Other, please specify:: _____

Please rate the usability of the applications built on low-code/no-code platforms that you've come across:

- ☐ 5 – Very good
- ☐ 4 – Good
- ☐ 3 – OK
- ☐ 2 – Usable, but with a lot of issues
- ☐ 1 – Barely usable

Which kinds of issues do you commonly experience when using applications developed on/with no-code/low-code platforms?

- ☐ Performance issues
- ☐ Subpar user experience
- ☐ Limited functionality
- ☐ Poor style and design

- ☐ Lots of bugs
- ☐ Inconsistent behaviors
- ☐ Other, please specify:: _____

What percentage of total working time do you spend using low-code/no-code platforms?

- ☐ Less than 10%
- ☐ 10–19%
- ☐ 20–39%
- ☐ 40–59%
- ☐ 60–79%
- ☐ 80% or more

Please rate your experience while developing on such platforms:

- ☐ 5 – Very good
- ☐ 4 – Good
- ☐ 3 – OK
- ☐ 2 – Usable, but with a lot of issues
- ☐ 1 – Barely usable

Which kinds of issues do you commonly experience while developing using no-code/low-code platforms?

- ☐ Not enough flexibility and customization options
- ☐ Issues with integrating with or into other systems
- ☐ Development tools below the industry standard
- ☐ Poor observability over deployed applications
- ☐ Limited style and design options
- ☐ Inadequate or poor support for some of the target platforms
- ☐ Custom code is required to achieve the desired functionality
- ☐ Issues with maintainability in the long run

- ☐ Slow development tools, especially on large projects
- ☐ Insufficient support for development practices, such as debugging, profiling, and automated testing
- ☐ Other, please specify:: _____

What benefits of using AI with low-code/no-code platforms do you see?

- ☐ I haven't used AI with low-code/no-code platforms
- ☐ AI helps with initial project generation for new products
- ☐ AI allows for faster generation of data models, user interfaces, business rules, or other components
- ☐ AI acts as a subject matter expert to help generate proper business functionality
- ☐ AI reduces requirements for training and knowledge from developers
- ☐ AI increases velocity when building integrations with other systems
- ☐ AI improves productivity for developers and reduces the workforce needed
- ☐ Other, please specify:: _____
- ☐ I haven't observed any benefits from using AI with low-code/no-code platforms

Finish survey

Would you like to answer these additional questions?*

- ☐ Yes
- ☐ No

Would you like to answer additional questions?" is one of the following answers ("No")
THEN: Jump to [page 140 - Thank You!](#) Flag response as complete

AI models / LLM usage (optional)

Logic: Hidden unless: #57 Question "Which of these AI tools do you regularly use for coding and other development-related activities?" is one of the following answers ("GitHub Copilot")

Which AI models / LLMs do you regularly use in GitHub Copilot? *

- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3
- ☐ o3-mini
- ☐ o1-pro
- ☐ o1
- ☐ o1-mini
- ☐ GPT-4o
- ☐ GPT-4
- ☐ Claude 4 Sonnet Thinking
- ☐ Claude 4 Sonnet
- ☐ Claude 4 Opus Thinking
- ☐ Claude 4 Opus
- ☐ Claude 3.7 Sonnet Thinking
- ☐ Claude 3.7 Sonnet
- ☐ Claude 3.5 Sonnet
- ☐ Claude 3.5 Haiku
- ☐ Gemini 2.5 Pro
- ☐ Gemini 2 Pro
- ☐ Gemini 2 Flash
- ☐ Gemini 2 Flash-Lite
- ☐ Gemini 1.5 Pro
- ☐ Gemini 1.5 Flash
- ☐ DeepSeek R1

- ☐ DeepSeek V3
 - ☐ Meta Llama-based models
 - ☐ Tool-specific AI models / LLMs
 - ☐ Other AI models / LLMs, please specify::
-

☐ I don't know

Logic: Hidden unless: #57 Question "Which of these AI tools do you regularly use for coding and other development-related activities?" is one of the following answers ("Cursor")

Which AI models / LLMs do you regularly use in Cursor? *

- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3
- ☐ o3-mini
- ☐ o1-pro
- ☐ o1
- ☐ o1-mini
- ☐ GPT-4o
- ☐ GPT-4
- ☐ Claude 4 Sonnet Thinking
- ☐ Claude 4 Sonnet
- ☐ Claude 4 Opus Thinking
- ☐ Claude 4 Opus
- ☐ Claude 3.7 Sonnet Thinking
- ☐ Claude 3.7 Sonnet
- ☐ Claude 3.5 Sonnet
- ☐ Claude 3.5 Haiku
- ☐ Gemini 2.5 Pro
- ☐ Gemini 2.5 Flash

- ☐ Gemini 2 Pro
- ☐ Gemini 2 Flash
- ☐ Gemini 2 Flash-Lite
- ☐ Gemini 1.5 Pro
- ☐ Gemini 1.5 Flash
- ☐ DeepSeek R1
- ☐ DeepSeek V3
- ☐ Meta Llama-based models
- ☐ Tool-specific AI models / LLMs
- ☐ Other AI models / LLMs, please specify::

☐ I don't know

Logic: Hidden unless: #57 Question "Which of these AI tools do you regularly use for coding and other development-related activities?" is one of the following answers ("JetBrains AI Assistant")

Which AI models / LLMs do you regularly use in JetBrains AI Assistant? *

- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3
- ☐ o3-mini
- ☐ o1-pro
- ☐ o1
- ☐ o1-mini
- ☐ GPT-4o
- ☐ GPT-4
- ☐ Claude 4 Sonnet
- ☐ Claude 4 Opus
- ☐ Claude 3.7 Sonnet Thinking
- ☐ Claude 3.7 Sonnet

- ☐ Claude 3.5 Sonnet
- ☐ Claude 3.5 Haiku
- ☐ Gemini 2.5 Pro
- ☐ Gemini 2.5 Flash
- ☐ Gemini 2 Pro
- ☐ Gemini 2 Flash
- ☐ Gemini 2 Flash-Lite
- ☐ Gemini 1.5 Pro
- ☐ Gemini 1.5 Flash
- ☐ DeepSeek R1
- ☐ DeepSeek V3
- ☐ Meta Llama-based models
- ☐ Tool-specific AI models / LLMs
- ☐ Other AI models / LLMs, please specify::

☐ I don't know

Logic: Hidden unless: #57 Question "Which of these AI tools do you regularly use for coding and other development-related activities?" is one of the following answers ("Windsurf")

Which AI models / LLMs do you regularly use in Windsurf?*

- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3
- ☐ o3-mini
- ☐ o1-pro
- ☐ o1
- ☐ o1-mini
- ☐ GPT-4o
- ☐ GPT-4

- ☐ Claude 4 Sonnet Thinking
- ☐ Claude 4 Sonnet
- ☐ Claude 4 Opus Thinking
- ☐ Claude 4 Opus
- ☐ Claude 3.7 Sonnet Thinking
- ☐ Claude 3.7 Sonnet
- ☐ Claude 3.5 Sonnet
- ☐ Claude 3.5 Haiku
- ☐ Gemini 2.5 Pro
- ☐ Gemini 2 Pro
- ☐ Gemini 2 Flash
- ☐ Gemini 2 Flash-Lite
- ☐ Gemini 1.5 Pro
- ☐ Gemini 1.5 Flash
- ☐ DeepSeek R1
- ☐ DeepSeek V3
- ☐ Meta Llama-based models
- ☐ Tool-specific AI models / LLMs
- ☐ Other AI models / LLMs, please specify::

☐ I don't know

Logic: Hidden unless: #57 Question "Which of these AI tools do you regularly use for coding and other development-related activities?" is one of the following answers ("Windsurf Plugin (previously Codeium)")

Which AI models / LLMs do you regularly use in Windsurf Plugin (previously Codeium)?*

- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3
- ☐ o3-mini

- ☐ o1-pro
- ☐ o1
- ☐ o1-mini
- ☐ GPT-4o
- ☐ GPT-4
- ☐ Claude 3.7 Sonnet Thinking
- ☐ Claude 3.7 Sonnet
- ☐ Claude 3.5 Sonnet
- ☐ Claude 3.5 Haiku
- ☐ Gemini 2.5 Pro
- ☐ Gemini 2 Pro
- ☐ Gemini 2 Flash
- ☐ Gemini 2 Flash-Lite
- ☐ Gemini 1.5 Pro
- ☐ Gemini 1.5 Flash
- ☐ DeepSeek R1
- ☐ DeepSeek V3
- ☐ Meta Llama-based models
- ☐ Tool-specific AI models / LLMs
- ☐ Other AI models / LLMs, please specify::

☐ I don't know

Logic: Hidden unless: #57 Question "Which of these AI tools do you regularly use for coding and other development-related activities?" is one of the following answers ("Tabnine")

Which AI models / LLMs do you regularly use in Tabnine?*

- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3

- ☐ o3-mini
 - ☐ o1-pro
 - ☐ o1
 - ☐ o1-mini
 - ☐ GPT-4o
 - ☐ GPT-4
 - ☐ Claude 3.7 Sonnet Thinking
 - ☐ Claude 3.7 Sonnet
 - ☐ Claude 3.5 Sonnet
 - ☐ Claude 3.5 Haiku
 - ☐ Gemini 2.5 Pro
 - ☐ Gemini 2 Pro
 - ☐ Gemini 2 Flash
 - ☐ Gemini 2 Flash-Lite
 - ☐ Gemini 1.5 Pro
 - ☐ Gemini 1.5 Flash
 - ☐ DeepSeek R1
 - ☐ DeepSeek V3
 - ☐ Meta Llama-based models
 - ☐ Tool-specific AI models / LLMs
 - ☐ Other AI models / LLMs, please specify::
-
- ☐ I don't know

Logic: Show/hide trigger exists. Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

This question is about the usage of AI models / LLMs via the providers' websites, apps, or APIs, not about their usage inside third-party tools (e.g. in GitHub Copilot, Cursor, JetBrains AI Assistant and similar).

Which AI models / LLM do you regularly use for coding and other development-related activities at your work?*

- ☐ codex-1
- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3
- ☐ o3-mini
- ☐ o1-pro
- ☐ o1
- ☐ o1-mini
- ☐ GPT-4o
- ☐ GPT-4
- ☐ Claude 4 Sonnet Thinking
- ☐ Claude 4 Sonnet
- ☐ Claude 4 Opus Thinking
- ☐ Claude 4 Opus
- ☐ Claude 3.7 Sonnet Thinking
- ☐ Claude 3.7 Sonnet
- ☐ Claude 3.5 Sonnet
- ☐ Claude 3.5 Haiku
- ☐ Gemini 2.5 Pro
- ☐ Gemini 2.5 Flash
- ☐ Gemini 2 Pro
- ☐ Gemini 2 Flash
- ☐ Gemini 2 Flash-Lite
- ☐ Gemini 1.5 Pro
- ☐ Gemini 1.5 Flash
- ☐ DeepSeek R1
- ☐ DeepSeek V3
- ☐ Meta Llama-based models
- ☐ Other AI models / LLMs, please specify::

☐ None

AI models / LLM usage 2 (optional)

Logic: Hidden unless: #476 Question "This question is about the usage of AI models / LLMs via the providers' websites, apps, or APIs, not about their usage inside third-party tools (e.g. in GitHub Copilot, Cursor, JetBrains AI Assistant and similar).

Which AI models / LLM do you regularly use for coding and other development-related activities at your work?" is one of the following answers ("codex-1", "GPT-4.1", "GPT-4.5", "o4-mini", "o3", "o3-mini", "o1-pro", "o1", "o1-mini", "GPT-4o", "GPT-4", "Claude 4 Sonnet Thinking", "Claude 4 Sonnet", "Claude 4 Opus Thinking", "Claude 4 Opus", "Claude 3.7 Sonnet Thinking", "Claude 3.7 Sonnet", "Claude 3.5 Sonnet", "Claude 3.5 Haiku", "Gemini 2.5 Pro", "Gemini 2.5 Flash", "Gemini 2 Pro", "Gemini 2 Flash", "Gemini 2 Flash-Lite", "Gemini 1.5 Pro", "Gemini 1.5 Flash", "DeepSeek R1", "DeepSeek V3", "Meta Llama-based models", "Other AI models / LLMs, please specify:")

How do you access these AI models / LLMs that you use for coding and development-related activities at your work?*

- ☐ GPT or o1/o3 via OpenAI's website
- ☐ GPT or o1/o3 via OpenAI's mobile or desktop apps
- ☐ GPT or o1/o3 via a third-party deployment platform (e.g. Azure OpenAI Service)
- ☐ GPT or o1/o3 via OpenAI's API
- ☐ GPT or o1/o3 via other sources:: _____
- ☐ Claude via Anthropic's website
- ☐ Claude via Anthropic's app
- ☐ Claude via Anthropic's API
- ☐ Claude via a third-party deployment platform (e.g. Amazon Bedrock)
- ☐ Claude via other sources:: _____
- ☐ Gemini via Gemini's website
- ☐ Gemini via Gemini's API
- ☐ Gemini via a third-party deployment platform
- ☐ Gemini in Google tools (Gmail, Google Docs, Google Sheets, etc.)
- ☐ Gemini via other sources:: _____

- ☐ DeepSeek via DeepSeek's website or app
- ☐ DeepSeek via DeepSeek's API
- ☐ DeepSeek via a self-hosted server
- ☐ DeepSeek self-hosted in the cloud
- ☐ DeepSeek via a third-party deployment platform
- ☐ Locally installed DeepSeek
- ☐ DeepSeek via other sources:: _____
- ☐ Llama-based models via a self-hosted server
- ☐ Llama-based models hosted in the cloud
- ☐ Llama-based models via a third-party provider
- ☐ Locally installed Llama-based models
- ☐ Llama via other sources:: _____
- ☐ Please describe how do you access other AI / LLMs mentioned in the previous question::

Which AI model / LLM do you think is the best suited for your coding and development-related tasks?*

- ☐ codex-1
- ☐ GPT-4.1
- ☐ GPT-4.5
- ☐ o4-mini
- ☐ o3
- ☐ o3-mini
- ☐ o1-pro
- ☐ o1
- ☐ o1-mini
- ☐ GPT-4o
- ☐ GPT-4
- ☐ Claude 4 Sonnet Thinking
- ☐ Claude 4 Sonnet
- ☐ Claude 4 Opus Thinking
- ☐ Claude 4 Opus

- ☐ Claude 3.7 Sonnet Thinking
- ☐ Claude 3.7 Sonnet
- ☐ Claude 3.5 Sonnet
- ☐ Claude 3.5 Haiku
- ☐ Gemini 2.5 Pro
- ☐ Gemini 2.5 Flash
- ☐ Gemini 2 Pro
- ☐ Gemini 2 Flash
- ☐ Gemini 2 Flash-Lite
- ☐ Gemini 1.5 Pro
- ☐ Gemini 1.5 Flash
- ☐ DeepSeek R1
- ☐ DeepSeek V3
- ☐ Meta Llama-based models
- ☐ Windsurf SWE-1
- ☐ Other AI models / LLMs, please specify::

☐ I don't know

AI in Orgs (optional)

The following questions are about the use of AI-powered tools in your organization.

Logic: Hidden unless: #9 Question "In which country or region do you currently reside?" is one of the following answers ("China Mainland")

Does your organization have access to the AI / LLM services and tools that are not generally available in Mainland China (such as ChatGPT)?*

- ☐ Yes, for many such tools
- ☐ Yes, but only for a few such tools
- ☐ No
- ☐ Other, please specify:: _____
- ☐ I don't know

Logic: Show/hide trigger exists.

Which types of AI- or LLM-powered tools or services are used in your organization?

- ☐ Organization's own local, non-cloud-based AI tools or services
- ☐ Organization's own cloud-based AI tools or services
- ☐ Third-party locally installed, non-cloud-based AI tools or services
- ☐ Third-party cloud-based AI tools or services managed and hosted by my company
- ☐ Third-party cloud-based AI tools or services (e.g. ChatGPT, GitHub Copilot, etc.)
- ☐ Other, please specify:: _____
- ☐ None
- ☐ I don't know

Logic: Hidden unless: #9 Question "In which country or region do you currently reside?" is one of the following answers ("China Mainland")

Which AI / LLM tools and models does your organization use?*

- ☐ ERNIE Bot (Baidu)
- ☐ Qwen (Alibaba)
- ☐ TianGong AI
- ☐ SenseNova
- ☐ Hunyuan LLM
- ☐ DeepSeek
- ☐ Other, please specify:: _____
- ☐ I don't know
- ☐ None

Logic: Hidden unless: #482 Question "Which types of AI- or LLM-powered tools or services are used in your organization?" is one of the following answers ("None")

In your opinion, why doesn't your organization use AI- or LLM-powered tools or services?

- ☐ My organization is planning to start using them in the nearest future
- ☐ They are expensive
- ☐ Developers don't see value in such tools or services
- ☐ Management doesn't see value in such tools or services
- ☐ My organization has data privacy and security concerns
- ☐ My organization has concerns about intellectual property rights over content generated by such tools
- ☐ There is not enough demand for such tools from employees
- ☐ Negative previous experience with such tools
- ☐ Lack of knowledge about relevant AI / LLM tools and services in the company
- ☐ Difficulty in incorporating such tools into existing workflows and systems
- ☐ Processes and decision-making for adopting new technologies are slow and conservative
- ☐ Distrust in new technologies
- ☐ We have no resources for investigating the benefits and risks of adopting such tools
- ☐ Other, please specify:: _____
- ☐ I don't know

AI in Orgs 2 (show 2 / 4) (optional)

What percentage of software developers / coding professionals use AI tools and features for coding and development-related activities in your company?

- ☐ 0–20%
- ☐ 21–40%
- ☐ 41–60%

- ☐ 61–80%
- ☐ 81–100%
- ☐ I'm not sure

How would you describe the current level of AI adoption in your company's software development processes?

- ☐ No adoption – We do not use AI in our development workflows or areas
- ☐ Exploratory stage – We are researching AI but have not yet implemented it
- ☐ Pilot stage – We are experimenting with AI in limited workflows or areas
- ☐ Partial adoption – AI is used in some workflows or areas
- ☐ Extensive adoption – AI is used in most development workflows or areas

Which areas of the software development cycle does your company use AI tools in, if any?

- ☐ None
- ☐ Requirement analysis / gathering
- ☐ System design / architecture
- ☐ Implementing features or programs
- ☐ Writing tests
- ☐ Code review
- ☐ Refactoring
- ☐ Debugging
- ☐ Documentation creation
- ☐ Security / DevSecOps
- ☐ CI / CD
- ☐ QA / Testing
- ☐ Deployment / Monitoring
- ☐ Software maintenance
- ☐ Incident management
- ☐ Project management
- ☐ Migrating code from one language / stack to another

- ☐ Other, please specify:: _____
- ☐ I don't know

Logic: Show/hide trigger exists.

Which AI agents do you use for non-code-related tasks at work, if any?

- ☐ None
- ☐ Amazon Bedrock Agents
- ☐ OpenAI Operator
- ☐ Anthropic Claude computer use
- ☐ Joule AI agents by SAP
- ☐ Copilot actions or agents in Microsoft 365 Copilot
- ☐ AI agents by Oracle Fusion Cloud
- ☐ Project Astra by Google
- ☐ Project Mariner by Google
- ☐ Fujitsu Kozuchi AI Agent
- ☐ AI sales research assistant by Aomni
- ☐ Chatsonic by Writersonic
- ☐ AutoGPT
- ☐ AgentGPT
- ☐ Custom AI agents developed by or for my company
- ☐ Other, please specify:: _____

Logic: Hidden unless: #488 Question "Which AI agents do you use for non-code-related tasks at work, if any?" is one of the following answers ("Amazon Bedrock Agents", "OpenAI Operator", "Anthropic Claude computer use", "Joule AI agents by SAP", "Copilot actions or agents in Microsoft 365 Copilot", "AI agents by Oracle Fusion Cloud", "Project Astra by Google", "Project Mariner by Google", "Fujitsu Kozuchi AI Agent", "AI sales research assistant by Aomni", "Chatsonic by Writersonic", "AutoGPT", "AgentGPT", "Custom AI agents developed by or for my company", "Other, please specify:")

Which areas of work do you use these AI agents in?

- ☐ Marketing / PR
 - ☐ Legal
 - ☐ HR
 - ☐ Data analysis
 - ☐ Customer support
 - ☐ Sales
 - ☐ Security
 - ☐ Finance
 - ☐ Procurement
 - ☐ Logistics / Supply chain
 - ☐ Communication
 - ☐ Project management
 - ☐ Product management
 - ☐ IT infrastructure
 - ☐ Automation of routine tasks and processes
 - ☐ Other, please specify: _____
-

AI - aspects importance (optional)

Logic: Hidden unless: #57 Question "Which of these AI tools do you regularly use for coding and other development-related activities?" is one of the following answers ("Aider", "Amazon Q Developer (previously CodeWhisperer)", "Anthropic Claude Code", "CodeGPT plugin in VS Code", "CodeGPT plugin in JetBrains IDEs (IntelliJ IDEA, PyCharm, PhpStorm, etc.)", "Windsurf Plugin (previously Codeium)", "Qodo (previously Codium and Codiumate)", "Sourcegraph Cody", "Continue", "Cursor", "CodeGeeX", "Cline (previously Claude Dev)", "Devin", "Gemini Code Assist (previously Duet AI for Developers)", "Gemini in Android Studio", "Google Jules", "GitHub Copilot", "GitHub Spark", "GitLab Duo", "JetBrains AI Assistant", "Firebase Studio (previously Project IDX)", "OpenAI Codex CLI", "Replit", "Tabnine", "TONGYI Lingma", "Trae", "Visual Studio IntelliCode", "Windsurf", "Zed", "Built-in AI features in Xcode", "Lovable", "Vercel

v0", "Bolt", "JetBrains Junie", "Pieces for Developers", "MarsCode", "Project Padawan (AI coding agent project by GitHub)", "Custom AI tool")

How important is each of the following aspects of AI coding assistants, agents and IDEs for you?*

| | Not important at all | Slightly important | Moderately important | Very important |
|--|----------------------------|-----------------------|-------------------------|-------------------|
| Quality of code completion suggestions | () | () | () | () |
| Speed of generating code completion suggestions | () | () | () | () |
| Frequency of code completion suggestions | () | () | () | () |
| Quality of generated code | () | () | () | () |
| Speed of code generation (apart from code completion) | () | () | () | () |
| Quality of answers in chat | () | () | () | () |
| Speed of response | () | () | () | () |

| | | | | |
|--|----|----|----|----|
| generation in chat | | | | |
| Quality of the AI features' codebase context awareness | () | () | () | () |
| Smooth integration with my IDE or code editor | () | () | () | () |
| Easy-to-use user interface | () | () | () | () |
| Predictability of features' behavior | () | () | () | () |
| Price | () | () | () | () |
| Security and privacy | () | () | () | () |
| Availability of the best AI models / LLMs for coding | () | () | () | () |
| Availability of different AI models / LLMs | () | () | () | () |
| Availability of local AI models / LLMs that | () | () | () | () |

| | | | | |
|---|--|--|--|--|
| do not require internet access | | | | |
|---|--|--|--|--|

Logic: Hidden unless: (#58 Question "Which of these AI tools do you use for your coding and other development-related tasks at work?" is one of the following answers ("Aider", "Amazon Q Developer (previously CodeWhisperer)", "Anthropic Claude web / desktop / mobile apps (not inside third-party tools)", "Anthropic Claude Code", "ChatGPT web / desktop / mobile apps (not inside third-party tools)", "CodeGPT plugin in VS Code", "CodeGPT plugin in JetBrains IDEs (IntelliJ IDEA, PyCharm, PhpStorm, etc.)", "Meta Llama self-hosted / locally installed (not inside third-party tools)", "Windsurf Plugin (previously Codeium)", "Qodo (previously Codium and Codiumate)", "Sourcegraph Cody", "Continue", "Cursor", "CodeGeeX", "Cline (previously Claude Dev)", "Devin", "Gemini Code Assist (previously Duet AI for Developers)", "Gemini in Android Studio", "Google Gemini web / mobile apps (not inside third-party tools)", "Google Jules", "GitHub Copilot", "GitHub Spark", "GitLab Duo", "JetBrains AI Assistant", "Microsoft 365 Copilot", "Firebase Studio (previously Project IDX)", "OpenAI Codex CLI", "Replit", "Tabnine", "TONGYI Lingma", "Trae", "Visual Studio IntelliCode", "Windsurf", "Zed", "Built-in AI features in Xcode", "Lovable", "Vercel v0", "Bolt", "JetBrains Junie", "Pieces for Developers", "Perplexity", "MarsCode", "DeepSeek apps or self-hosted / locally installed (not inside third-party tools)", "Project Padawan (AI coding agent project by GitHub)", "Custom AI tool", "Other, please specify:") OR #476 Question "This question is about the usage of AI models / LLMs via the providers' websites, apps, or APIs, not about their usage inside third-party tools (e.g. in GitHub Copilot, Cursor, JetBrains AI Assistant and similar).

Which AI models / LLM do you regularly use for coding and other development-related activities at your work?" is one of the following answers ("codex-1", "GPT-4.1", "GPT-4.5", "o4-mini", "o3", "o3-mini", "o1-pro", "o1", "o1-mini", "GPT-4o", "GPT-4", "Claude 4 Sonnet Thinking", "Claude 4 Sonnet", "Claude 4 Opus Thinking", "Claude 4 Opus", "Claude 3.7 Sonnet Thinking", "Claude 3.7 Sonnet", "Claude 3.5 Sonnet", "Claude 3.5 Haiku", "Gemini 2.5 Pro", "Gemini 2.5 Flash", "Gemini 2 Pro", "Gemini 2 Flash", "Gemini 2 Flash-Lite", "Gemini 1.5 Pro", "Gemini 1.5 Flash", "DeepSeek R1", "DeepSeek V3", "Meta Llama-based models", "Other AI models / LLMs, please specify:"))

How often do you use AI tools for each of the following tasks at work?*

| | Every day | Several times a week | Once a week | Several times a month | Once a month or less often | Never |
|--|----------------------|-------------------------------------|----------------------------|--------------------------------------|---|--------------|
| Code completion | () | () | () | () | () | () |
| Generating code | () | () | () | () | () | () |
| Generating chunks of boilerplate, repetitive code | () | () | () | () | () | () |
| Prompt-based agentic development of features or programs | () | () | () | () | () | () |
| Editing code across multiple files | () | () | () | () | () | () |
| Generating code comments or code documentation | () | () | () | () | () | () |
| Generating user documentation (e.g. manuals, tutorials, release notes) | () | () | () | () | () | () |
| Generating internal documentation | () | () | () | () | () | () |

| | | | | | | |
|--|----|----|----|----|----|----|
| Generating tests | () | () | () | () | () | () |
| Generating commit messages | () | () | () | () | () | () |
| Explaining code | () | () | () | () | () | () |
| Summarizing recent code changes | () | () | () | () | () | () |
| Performing code reviews | () | () | () | () | () | () |
| Explaining bugs and offering fixes for them | () | () | () | () | () | () |
| Checking code for potential issues | () | () | () | () | () | () |
| Improving or optimizing code | () | () | () | () | () | () |
| Converting code to other languages | () | () | () | () | () | () |
| Refactoring code | () | () | () | () | () | () |
| Suggesting names for classes, functions, variables, etc. | () | () | () | () | () | () |

| | | | | | | |
|---|-----|-----|-----|-----|-----|-----|
| Debugging code | () | () | () | () | () | () |
| Generating CLI commands by natural-language description | () | () | () | () | () | () |
| Search in natural-language queries for code fragments | () | () | () | () | () | () |
| Asking questions about software development and coding | () | () | () | () | () | () |
| Brainstorming new ideas | () | () | () | () | () | () |
| Learning new things about coding and software development | () | () | () | () | () | () |

AI - Benefits and time savings of AI (optional)

What benefits do you get from using AI tools for coding and other development-related activities?*

[] Faster completion of repetitive tasks

- ☐ Increased productivity
- ☐ Faster coding and development
- ☐ Less time spent searching for information
- ☐ Less mental effort required for coding and development
- ☐ Faster learning of new technologies, frameworks, languages, etc.
- ☐ Better quality of code and development solutions
- ☐ Better coding and development experience
- ☐ Other, please specify:: _____
- ☐ None

On average, how much time do you think you save per week by using AI tools for coding and other development-related activities?*

- ☐ I don't save any time
- ☐ Less than 1 hour
- ☐ From 1 to less than 2 hours
- ☐ From 2 to less than 4 hours
- ☐ From 4 to less than 8 hours
- ☐ 8 hours or more

AI - Concerns (everybody is eligible, show 1 / 7 Qs) (optional)

How likely is it that you would delegate the following activities to AI tools for coding and development?

| | I would still | I am not | I would delegate it |
|--|------------------------------|-------------------------|------------------------------------|
| | | | |

| | do it myself | sure yet | |
|---|-------------------------|---------------------|-----|
| Writing application logic code | () | () | () |
| Writing boilerplate, repetitive code | () | () | () |
| Writing code comments or code documentation | () | () | () |
| Writing user documentation (e.g. manuals, tutorials, release notes) | () | () | () |
| Writing internal documentation | () | () | () |
| Writing commit messages | () | () | () |
| Writing tests | () | () | () |
| Explaining bugs and offering fixes for them | () | () | () |
| Understanding code | () | () | () |
| Performing code reviews | () | () | () |
| Searching for code fragments | () | () | () |

| | | | |
|---|----|----|----|
| inside the codebase | | | |
| Searching for development-related information on the internet | () | () | () |
| Debugging | () | () | () |
| Understanding recent code changes | () | () | () |
| Refactoring | () | () | () |
| Performing actions in the terminal / CLI | () | () | () |
| Checking code for potential issues | () | () | () |
| Improving or optimizing code | () | () | () |
| Converting code to other languages | () | () | () |
| Creating project-related content, such as tasks, comments, descriptions, etc. | () | () | () |
| Brainstorming new ideas | () | () | () |

| | | | |
|---|--------------------------|--------------------------|--------------------------|
| Summarizing recent code changes | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Writing reports or whitepapers | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Communicating through email and messaging | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

What is your biggest concern about AI in coding and software development?

- ☐ Quality of generated code
- ☐ Privacy and security
- ☐ Intellectual property concerns over AI-generated code
- ☐ Costs
- ☐ Poor integration with existing coding and development workflows
- ☐ Lack of context awareness
- ☐ Limited understanding of complex code and logic by AI tools
- ☐ Job security and future job prospects
- ☐ Negative effect on my coding and development skills
- ☐ Other, please specify:: _____
- ☐ I don't have any concerns

In which of the following areas would you like to get assistance from AI tools for coding and development?*

This is a long list, so please read all the options

- ☐ Writing and editing code
- ☐ Generating boilerplate or repetitive code
- ☐ Generating tests
- ☐ Improving or optimizing code quality (e.g. refactoring)
- ☐ Profiling code for performance improvements

- ☐ Understanding bugs and finding fixes for them
- ☐ Converting code to other languages
- ☐ Generating solutions for ad-hoc coding problems (sorting, mathematical operations, etc.)
- ☐ Creating simple apps
- ☐ Brainstorming or testing new ideas
- ☐ Generating UI components for frontend applications
- ☐ Designing and styling frontend elements
- ☐ Creating or editing static web pages
- ☐ Generating CRUD-like backend APIs
- ☐ Integrating with external services or APIs
- ☐ Managing and interacting with databases
- ☐ Creating serverless backend functionality
- ☐ Generating API specifications and documentation (e.g. using OpenAPI)
- ☐ Creating small scripts for simple automation or data processing
- ☐ Other software development tasks, please specify::

-
- ☐ Analyzing application logs and metrics
 - ☐ Configuring CI/CD pipelines
 - ☐ Working on containerization / container orchestration
 - ☐ Managing infrastructure with infrastructure-as-code tools (e.g. Ansible or Terraform)
 - ☐ Generating code comments or code documentation
 - ☐ Generating user documentation (e.g. manuals, tutorials, or release notes)
 - ☐ Generating internal documentation
 - ☐ Generating commit messages
 - ☐ Becoming familiar with or understanding code
 - ☐ Understanding recent code changes
 - ☐ Performing code reviews
 - ☐ Checking code for potential issues
 - ☐ Coming up with names for classes, functions, variables, etc.
 - ☐ Working with CLI tools
 - ☐ Searching through and navigating code
 - ☐ Learning new things about coding and software development
 - ☐ Other tasks, please specify:: _____

☐ None

How do you expect your coding and development workflows to change in the next 1–3 years due to AI tools for coding and development?

- ☐ I'll rely more on AI for repetitive tasks but keep the core work manual
- ☐ AI will become integral to most parts of my workflow, automating a majority of coding tasks
- ☐ AI will help me focus more on problem-solving and high-level design, while handling low-level implementation
- ☐ I expect AI to significantly improve debugging and code optimization processes
- ☐ AI will reduce the time I spend learning new frameworks, tools, or APIs
- ☐ AI will enable better collaboration with my team
- ☐ My workflows will mostly stay the same, but AI will improve efficiency in specific areas
- ☐ I'll rely less on AI tools, as they don't fit my needs or workflows
- ☐ I expect to use AI to generate initial drafts of code, but I will still review and refine it
- ☐ AI will help me transition into new roles or technologies more easily
- ☐ AI will completely transform my workflow, and I expect coding to become more about oversight and orchestration
- ☐ Other, please specify:: _____
- ☐ I don't know
- ☐ I don't expect any changes

To what extent do you agree with each of the following statements?

| | Disagree | Neither agree nor disagree | Agree |
|--|-----------------|---|--------------|
| AI will eventually take over the coding process, fully | () | () | () |

| | | | |
|--|----|----|----|
| replacing human developers | | | |
| The majority of coding will turn into prompt engineering | () | () | () |
| The adoption of AI coding will decrease the demand for professional software developers | () | () | () |
| AI tools for developers will radically change the software development job market | () | () | () |
| Employers will expect every software developer to be proficient with AI tools for developers | () | () | () |
| AI tools for developers will make developers | () | () | () |

| | | | |
|---|-----|-----|-----|
| more efficient | | | |
| I am ready to use cloud-based generative AI services for work tasks | () | () | () |

DX for DX persons

Does your company measure developer experience and developer productivity (either for individuals or teams)?*

☐ Yes, we measure both developer productivity and developer experience

☐ Yes, we measure developer productivity

☐ Yes, we measure developer experience

☐ No

☐ I'm not sure

☐ Other, please specify:: _____

To what extent do you believe developer productivity is influenced by ...?*

| | Significantly influenced | Moderately influenced | Somewhat influenced | Not at all influenced |
|---|--------------------------|-----------------------|---------------------|-----------------------|
| Technical factors (such as performance of development tools, code | () | () | () | () |

| | | | | |
|--|-----|-----|-----|-----|
| editor responsiveness, etc.)? | | | | |
| Non-technical factors (such as team processes, clear communication, clear goals, fair compensation, your overall well-being, work-life balance, etc.)? | () | () | () | () |

Are you familiar with the concept of developer experience?*

- () Yes, I know a lot about it
- () I am vaguely aware of it
- () No

To what extent are you aware of your company's policies and practices concerning developer productivity, experience, and associated processes?*

- () I am not at all aware of them
- () I am moderately aware of them
- () I am fully aware of them

DX for DX persons (aware)

Who is responsible for developer productivity engineering and developer experience in your company?*

- ☐ Team leads
- ☐ HR
- ☐ Platform Engineering team
- ☐ Dedicated specialists (e.g. Developer Productivity Engineers) or dedicated teams (Developer Experience, Engineering Operations, Productivity & Happiness, Developer Infrastructure & Tools, and similar)
- ☐ Developers themselves
- ☐ Other, please specify:: _____
- ☐ No one is responsible for measuring developer productivity or developer experience
- ☐ I don't know

For every 20 software developers, approximately how many dedicated specialists in your company work full-time in the areas of developer productivity and/or developer experience?*

- ☐ Less than 1 per 20 developers
- ☐ From 1 to less than 3 per 20 developers
- ☐ 3 and more per 20 developers
- ☐ I'm not sure

What is your company's main organizational measure to enhance developer productivity and developer experience?*

- ☐ Internal training and skill development organized by the company
- ☐ Support of grassroots initiatives and peer-to-peer exchange of best practices
- ☐ GenAI tool adoption
- ☐ Fixing internal collaboration and communication issues
- ☐ Enhancing and modernizing existing professional tools and infrastructure
- ☐ Improving development processes and methodologies
- ☐ Reducing technical debt
- ☐ Optimizing and shortening feedback loops
- ☐ Improving documentation
- ☐ Investing in the tracking, analysis, and interpretation of developer productivity and developer experience data

☐ I'm not sure

☐ Other, please specify: _____

DX for DX persons (aware & measure)

Which of the following methods does your company or organization use to measure developer productivity?*

☐ Surveys and feedback forms

☐ Key performance indicators (KPIs)

☐ One-on-one interviews

☐ Activity logs (e.g. code commits, pull requests)

☐ Telemetry data (e.g. tracking mouse movement, keyboard usage)

☐ Work journals or diaries

☐ Observational assessments

☐ Self-assessment (in any form other than surveys and feedback forms)

☐ Other, please specify: _____

☐ Developer productivity is not measured

☐ I'm not sure

Which of the following metrics does your company use to assess developer productivity and/or developer experience?*

☐ Adoption rate

☐ Change failure rate

☐ Deployment frequency

☐ Developer engagement

☐ Developer satisfaction

☐ Developer sentiment

☐ Ease of delivery

- ☐ Lead time for changes
 - ☐ Perceived/Self-reported productivity
 - ☐ Time to restore service
 - ☐ Number of diffs/pull requests per developer
 - ☐ Time loss
 - ☐ Other, please specify:: _____
 - ☐ I'm not sure
-

DX for DX persons (all)

Logic: Show/hide trigger exists.

Do you keep up with the latest trends and discussions related to developer experience an/or developer productivity?*

- ☐ Yes
 - ☐ No
-

Productivity measurement (all)

To what extent do you believe your productivity as a developer is influenced by...?*

| | Significantly influenced | Moderately influenced | Somewhat influenced | Not at all influenced |
|--|-----------------------------|--------------------------|--------------------------|--------------------------|
| Technical factors (such as performance of development | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| | | | | |
|--|-----|-----|-----|-----|
| tools, code editor responsiveness, etc.)? | | | | |
| Non-technical factors (such as team processes, clear communication, clear goals, fair compensation, your overall well-being, work-life balance, etc.)? | () | () | () | () |

Logic: Show/hide trigger exists. Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000")

Which of the following methods does your company or organization use to measure your productivity?*

- ☐ Surveys and feedback forms
- ☐ Key performance indicators (KPIs)
- ☐ One-on-one interviews
- ☐ Activity logs (e.g. code commits, pull requests)
- ☐ Telemetry data (e.g. tracking mouse movement, keyboard usage)
- ☐ Work journals or diaries
- ☐ Observational assessments
- ☐ Self-assessment (in any form other than surveys and feedback forms)
- ☐ Other, please specify: _____
- ☐ My productivity is not measured
- ☐ My productivity is measured, but I am not aware of the methods used
- ☐ I don't know if my productivity is measured

Logic: Hidden unless: #514 Question "Which of the following methods does your company or organization use to measure your productivity?" is one of the following answers ("Surveys and feedback forms", "Key performance indicators (KPIs)", "One-on-one interviews", "Activity logs (e.g. code commits, pull requests)", "Telemetry data (e.g. tracking mouse movement, keyboard usage)", "Work journals or diaries", "Observational assessments", "Self-assessment (in any form other than surveys and feedback forms)", "Other, please specify:", "My productivity is measured, but I am not aware of the methods used")

How do you feel about the fact that your productivity is being measured?*

- ☐ Very comfortable
- ☐ Somewhat comfortable
- ☐ Neutral
- ☐ Somewhat uncomfortable
- ☐ Very uncomfortable

Logic: Hidden unless: #514 Question "Which of the following methods does your company or organization use to measure your productivity?" is one of the following answers ("Surveys and feedback forms", "Key performance indicators (KPIs)", "One-on-one interviews", "Activity logs (e.g. code commits, pull requests)", "Telemetry data (e.g. tracking mouse movement, keyboard usage)", "Work journals or diaries", "Observational assessments", "Self-assessment (in any form other than surveys and feedback forms)", "Other, please specify:")

Do you feel that the methods or metrics used to measure your productivity accurately reflect your productivity and contribution?*

- ☐ Yes
- ☐ No
- ☐ I'm not sure

Logic: Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000")

What is the main organizational measure that your company could implement to enhance your productivity as a developer? *

- ☐ Internal training and skill development organized by the company
 - ☐ Support of grassroots initiatives and peer-to-peer exchange of best practices
 - ☐ GenAI tool adoption
 - ☐ Fixing internal collaboration and communication issues
 - ☐ Enhancing and modernizing existing professional tools and infrastructure
 - ☐ Improving development processes and methodologies
 - ☐ Reducing technical debt
 - ☐ Optimizing and shortening feedback loops
 - ☐ Improving documentation
 - ☐ Investing in tracking, analysis, and interpretation of developer productivity and developer experience data
 - ☐ I'm not sure
 - ☐ Other, please specify:: _____
-

DX for developers

Are you familiar with the concept of developer experience?*

- ☐ Yes, I know a lot about it
- ☐ I am vaguely aware of it
- ☐ No

Logic: Show/hide trigger exists. Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000")

How is your satisfaction with development tools measured in your company?*

- ☐ Through surveys and feedback forms
- ☐ In one-on-one interviews
- ☐ Via observational assessments

- ☐ Informally, during spontaneous conversations
- ☐ My satisfaction with development tools is not measured
- ☐ I don't know
- ☐ Other, please specify:: _____

Logic: Hidden unless: #519 Question "How is your satisfaction with development tools measured in your company?" is one of the following answers ("Through surveys and feedback forms", "In one-on-one interviews", "Via observational assessments")

How frequently is your satisfaction with development tools measured?*

- ☐ Weekly
- ☐ Monthly
- ☐ Quarterly
- ☐ Annually
- ☐ At irregular intervals
- ☐ Other, please specify:: _____

Logic: Hidden unless: #519 Question "How is your satisfaction with development tools measured in your company?" is one of the following answers ("Through surveys and feedback forms", "In one-on-one interviews", "Via observational assessments", "Informally, during spontaneous conversations")

Who is primarily responsible for measuring your productivity and/or developer experience?*

- ☐ My team lead
- ☐ HR
- ☐ Myself
- ☐ Platform Engineering team
- ☐ Dedicated specialists (e.g. Developer Productivity Engineers) or dedicated teams (Developer Experience, Engineering Operations, Productivity & Happiness, Developer Infrastructure & Tools, and similar)
- ☐ No one is responsible for measuring my productivity or developer experience
- ☐ I don't know

[] Other, please specify:: _____

Trends

Logic: Hidden unless: #11 Question "How many people work for your company / organization?" is one of the following answers ("2–10", "11–50", "51–500", "501–1,000", "1,001–5,000", "More than 5,000")

On average, how many hours do you actually work compared to your contracted amount (e.g. 40 hours per week)?*

- ☐ I usually work **fewer** hours than expected.
- ☐ I work **about the same** as expected.
- ☐ I work **more hours** than expected.

The following questions are about brain-computer interfaces (BCIs): How do you think the technology will evolve, and how will it influence the software development industry in the future?

When do you think it will be possible for software developers to “write” reasonable code directly with their minds (or brains) (using BCIs)?*

- ☐ In less than 1 year
- ☐ In 1–3 years
- ☐ In 5–10 years
- ☐ In 10–20 years
- ☐ I don't believe it will ever be possible

When do you expect true AGI (human-like artificial general intelligence) will be developed? *

- ☐ In less than 1 year
- ☐ In 1–3 years
- ☐ In 5–10 years
- ☐ In 10–20 years
- ☐ In 20–50 years
- ☐ In 50–100 years
- ☐ In more than 100 years
- ☐ I don't believe it will ever be possible

If AGI were to be developed, what would be the most likely outcome?*

- ☐ Transformative and beneficial – AGI will solve major global problems
- ☐ Mixed impact – AGI will bring benefits but also create major risks
- ☐ Existential threat – AGI poses a serious risk to humanity
- ☐ No major impact – AGI will turn out to be another overhyped technology
- ☐ I don't know

Work and Employment

Logic: Hidden unless: (#2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student") AND #5 Question "In which kinds of activities are you involved?" is one of the following answers ("Coding / Programming"))

What are the most challenging aspects of your job?*

Select up to three.

- ☐ Understanding user requirements
- ☐ Communication with other job roles (product managers, QA engineers, UX designers)
- ☐ Communication with other developers

- ☐ Writing code
- ☐ Understanding other people's code
- ☐ Debugging
- ☐ Writing tests
- ☐ Performing code reviews
- ☐ Setting up my work environment
- ☐ Improving team processes
- ☐ Improving my technical skills
- ☐ Context switching
- ☐ Managing my team lead's expectations
- ☐ Waiting for various processes, like code compiling, CI/CD, or indexing, to finish
- ☐ Implementing AI into my workflow
- ☐ Other, please specify:: _____

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

Where do you primarily work?

- ☐ Only from the office
- ☐ Mainly from the office
- ☐ Equally from the office and remotely
- ☐ Mainly remotely
- ☐ Only remotely
- ☐ Other, please specify:: _____

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Founder or business owner in software or tech", "Working student")

Is working from home allowed in your company or organization?

- ☐ Yes, always
- ☐ Yes, partially
- ☐ No, but exceptions can be made
- ☐ No, never
- ☐ I'm not sure

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

Do you have any restrictions in accessing the internet during your work?*

- ☐ No, there are no restrictions
- ☐ Yes, there are minor restrictions, for example, non-work-related websites are blocked
- ☐ Yes, the internet is generally restricted, but it's possible to get access from certain computers, via special software such as a VPN, or with special permissions
- ☐ Yes, internet access is completely blocked; we only have an internal network

Logic: Hidden unless: (#5 Question "In which kinds of activities are you involved?" is one of the following answers ("Coding / Programming") AND #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student"))

How much of your working time do you spend on activities directly involving code?*

- ☐ Less than 10%
- ☐ 10–20%
- ☐ 21–30%
- ☐ 31–40%
- ☐ 41–50%
- ☐ 51–60%
- ☐ 61–70%
- ☐ 71–80%

- ☐ 81–90%
- ☐ More than 90%

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Working student", "Not currently employed, but with past experience in software development (e.g. unemployed, retired, or on leave)")

Have there been any layoffs in companies you worked for in the past two years?*

- ☐ Yes, mass layoffs
- ☐ Yes, small-scale layoffs
- ☐ No
- ☐ Not applicable

Logic: Hidden unless: #2 Question "Which of the following best describes your employment and involvement in software development?" is one of the following answers ("Employed full-time", "Employed part-time", "Self-employed or freelancer", "Founder or business owner in software or tech", "Working student")

How secure do you feel in your current job?*

- ☐ Completely secure
- ☐ Very secure
- ☐ Fairly secure
- ☐ Hard to say
- ☐ Fairly insecure
- ☐ Very insecure
- ☐ Completely insecure
- ☐ I don't know

How would you describe the current job market for software developers in your city or area, particularly in terms of how easy it is to get a job?*

- ☐ Very favorable
 - ☐ Somewhat favorable
 - ☐ Neutral
 - ☐ Somewhat challenging
 - ☐ Very challenging
 - ☐ I don't know
-

Lifestyle

Which type of pet do you like more?*

- ☐ None
- ☐ Cat
- ☐ Dog
- ☐ Other, please specify:: _____

Which statement do you identify with?*

- ☐ I am a morning person
- ☐ I am a night owl
- ☐ I am a bit of both

Which activities or hobbies do you pursue in your free time?

- ☐ I don't have any hobbies
- ☐ Collecting
- ☐ Creative arts
- ☐ Performing arts
- ☐ Playing board games

- ☐ Cooking
- ☐ Dancing
- ☐ Spending time with pets
- ☐ DIY (do it yourself) projects or handicrafts
- ☐ Gardening
- ☐ Physical exercise or sports
- ☐ Learning foreign languages
- ☐ Listening to music
- ☐ Photography
- ☐ Programming for fun
- ☐ Reading
- ☐ Socializing
- ☐ Parenting or spending time with family
- ☐ Traveling
- ☐ Playing video games
- ☐ Cyber sport
- ☐ Volunteering or activism
- ☐ Walking
- ☐ Watching TV or video streaming services
- ☐ Creative writing
- ☐ Yoga or meditation
- ☐ Other, please specify:: _____

What do you prefer to listen to while working?*

Select one.

- ☐ I don't listen to anything while working
- ☐ Music
- ☐ Ambient sounds (e.g. nature sounds, white noise)
- ☐ Podcasts or audiobooks
- ☐ News or radio
- ☐ Other, please specify:: _____

Validation: Max. answers = 3 (*if answered*)

What genre of music do you listen to while working? *

Select up to three.

☐ Pop

☐ Hip-hop

☐ R&B

☐ Rock

☐ Punk

☐ Soul

☐ Reggae

☐ Country

☐ Funk

☐ Folk

☐ Jazz

☐ Disco

☐ Classical

☐ Electronic

☐ New age

☐ Indie

☐ Religious

☐ Metal

☐ House

☐ Blues

☐ Other, please specify:: _____

What types of podcasts or audiobooks do you listen to while working?*

☐ Comedy / Entertainment

☐ True Crime / Mystery

☐ Sports

- ☐ News / Current events
- ☐ Business / Finance
- ☐ Technology
- ☐ Science / Education
- ☐ History
- ☐ Health & Wellness
- ☐ Personal development / Motivational
- ☐ Spirituality / Religion
- ☐ Travel
- ☐ Arts & Culture
- ☐ Fashion / Beauty / Lifestyle
- ☐ Fiction / Literature
- ☐ Other, please specify:: _____

Which generation do you identify with?*

- ☐ Baby Boomers (1946–1964)
- ☐ Generation X (1965–1980)
- ☐ Millennials (1981–1996)
- ☐ Generation Z (1997–2012)
- ☐ Alpha (2013–2024)
- ☐ I don't identify with a particular generation

Personality / Character traits

At a party, you can find me...*

- ☐ You won't find me at the party
- ☐ Hanging out near the snack table
- ☐ In the corner, deep in conversation with one person

- ☐ Floating around, chatting with everyone
- ☐ On the dance floor, stealing the spotlight
- ☐ Sitting in the corner with a phone
- ☐ Quietly planning my escape without anyone noticing

Do you consider yourself more of an extrovert or an introvert?*

- ☐ Definitely an introvert
- ☐ More introvert than extrovert
- ☐ A mix of both
- ☐ More extrovert than introvert
- ☐ Definitely an extrovert

How much do you align your identity to your job?*

- ☐ It's just a means to an end; work pays the bills, nothing more
- ☐ It's important, but I mostly see it as a way to fund my passions outside of work
- ☐ It's a part of my life, but doesn't define me
- ☐ My job reflects my values and is a significant part of my identity
- ☐ My job defines me completely; this is my entire identity

Do you feel comfortable being your authentic self at work? *

- ☐ Very uncomfortable
- ☐ Somewhat uncomfortable
- ☐ Neutral
- ☐ Somewhat comfortable
- ☐ Very comfortable

How often do you receive feedback or recognition that you are doing a good job at work?*

- ☐ Often
- ☐ From time to time
- ☐ Rarely
- ☐ Never

Do you feel that your work tasks and responsibilities align with your skills and strengths?*

- ☐ Yes, completely
- ☐ Mostly
- ☐ Somewhat
- ☐ Not much
- ☐ Not at all

How often do you typically take a vacation or PTO (paid time off) in a year? Select one.*

- ☐ Less than once a year
- ☐ 1–2 times a year
- ☐ 3–4 times a year
- ☐ 5–6 times a year
- ☐ More than 6 times a year
- ☐ I rarely or never take a vacation or PTO

Logic: Show/hide trigger exists.

Does your company subsidize mental health activities (e.g. paying toward or covering subscriptions to mental health apps)?*

- ☐ Yes
- ☐ No

Logic: Hidden unless: #548 Question "Does your company subsidize mental health activities (e.g. paying toward or covering subscriptions to mental health apps)?" is one of the following answers ("Yes")

Do you use your company's mental health benefits or services? *

- ☐ Yes

☐ No

Tech trends (AI, habits, and attitudes)

When you think about the increasing role of AI in society, which of the following emotions best describes your overall feeling?*

Select one.

☐ Excited

☐ Hopeful

☐ Anxious

☐ Fearful

☐ Uncertain

☐ Indifferent

☐ Other, please specify:: _____

To what extent do you trust AI systems to make decisions that impact your *personal* life?*

Strongly distrust

☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Strongly trust

If your country's government replaced your courts with AI would you trust it?*

☐ Definitely yes

☐ Probably yes

☐ Maybe

☐ Probably not

☐ Definitely not

How has your creativity changed since the adoption of AI began? *

- ☐ I have not adopted AI tools
- ☐ I became much more creative
- ☐ I became somewhat more creative
- ☐ My creativity has not changed
- ☐ I became somewhat less creative
- ☐ I became much less creative

Which of the following ethical concerns about AI development do you consider to be most important? *

Select all that apply.

- ☐ None, I don't see any significant ethical concerns
 - ☐ Job displacement
 - ☐ Bias and discrimination
 - ☐ Privacy violations
 - ☐ Lack of transparency (it's a black box)
 - ☐ Potential for misuse (e.g. autonomous weapons)
 - ☐ Existential risks (e.g. AI surpassing human intelligence)
 - ☐ Copyright violations
 - ☐ Other, please specify: _____
-

Mental Health & Gamification

How often do you use fun, reward-based (gamified)* apps or features to help you learn, work, or improve yourself?

*Gamification refers to adding fun, game-like elements (such as points, levels, or rewards) to everyday activities to make them more engaging. Some examples include fitness challenges on

apps, learning languages with Duolingo, and earning badges for completing tasks on productivity apps.

- ☐ Every day
- ☐ Several times a week
- ☐ Several times a month
- ☐ Several times a year
- ☐ Never

How familiar are you with the concept of mental health?

- ☐ I've never heard of it
- ☐ I'm vaguely aware of it
- ☐ I know about it, but I'm not interested in the topic
- ☐ I'm actively interested in this topic

For each of the following statements, please indicate how much they applied to you over the past two weeks.

| | Always | Often | Sometimes | Rarely | Never |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| I experienced difficulty maintaining focus while working on my tasks | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I experienced feelings of low mood or sadness | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I felt anxious or found myself persistently worrying | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | |
|--|----|----|----|----|----|
| I felt emotionally exhausted | () | () | () | () | () |
| I wasn't able to stop thinking about work in my free time | () | () | () | () | () |
| I felt overwhelmed by the amount of information I had to process and the multiple sources I needed to keep up with | () | () | () | () | () |
| I experienced stress because of tight deadlines at work | () | () | () | () | () |

Please indicate how much you agree or disagree with each of the following statements.

| | Always | Often | Sometimes | Rarely | Never |
|---|---------------|--------------|------------------|---------------|--------------|
| I often doubt my own abilities and feel like I don't deserve my | () | () | () | () | () |

| | | | | | |
|--|----|----|----|----|----|
| professional achievements | | | | | |
| I feel socially isolated or disconnected from my colleagues | () | () | () | () | () |
| I feel overwhelmed by the constant need to learn and adapt to new technologies in my field | () | () | () | () | () |
| I struggle to maintain a balance between work and personal life, feeling that work takes up too much of my time and energy | () | () | () | () | () |
| Stress related to work negatively affects my sleep, making it difficult to rest and recover | () | () | () | () | () |
| I feel overwhelmed by the need to keep up with the rapid advancements | () | () | () | () | () |

| | | | | | |
|---|-----|-----|-----|-----|-----|
| in AI and the pressure to stay relevant in my field | | | | | |
| I feel anxious that AI advancements might eventually replace my role as a developer | () | () | () | () | () |

Have you experienced burnout in the past 1–2 years?

By “burnout”, we mean emotional exhaustion and decreased motivation due to intense or challenging work.

() Yes

() No

In which aspects of life do you use special tools or apps to help take care of your mental health?

- [] Meditation and mindfulness practices
- [] Sleep enhancement
- [] Focus and concentration improvement
- [] Stress management
- [] Anxiety reduction
- [] Anger management
- [] Addiction recovery support
- [] Psychotherapy (e.g. CBT, DBT)
- [] Mood/emotion tracking and improvement
- [] Self-esteem and confidence building
- [] Relationship and communication skills

- ☐ Grief and loss support
- ☐ Personal growth and development
- ☐ Resilience training
- ☐ Parenting and family dynamics
- ☐ None of the above
- ☐ Other, please specify:: _____

Do you use any self-monitoring apps or devices to track physical activity, sleep quality, health, and so on?

- ☐ Yes
- ☐ No

Do you take care of your mental health?

- ☐ No
- ☐ Yes, I visit a therapist
- ☐ Yes, I take prescribed medications
- ☐ Yes, I take over-the-counter medications
- ☐ Yes, I use psychological techniques and practices on my own (e.g. mindfulness meditation)
- ☐ Other, please specify:: _____

Does your company subsidize mental health activities (e.g. subscription to mental health apps)?

- ☐ Yes
- ☐ No

Validation: Max. answers = 3 (*if answered*)

Which of the following most affect your ability to focus at work? Select up to three options.

- ☐ Requests for help or support from others (e.g. colleagues)

- ☐ Meetings and scheduled calls
- ☐ Work-related notifications, updates, and background discussions (not directly addressed to you, but present in the work environment)
- ☐ Too many tasks that you have to switch between
- ☐ Fatigue or mental exhaustion
- ☐ Ambiguity or vagueness of tasks
- ☐ Anxiety
- ☐ Procrastination
- ☐ Lack of interest or motivation
- ☐ Noise or environmental distractions
- ☐ Personal communication from friends, family, or acquaintances (e.g. messages, calls)
- ☐ Social media content from the broader community (e.g. news, blog posts, discussions)
- ☐ Other, please specify:: _____

Logic: Show/hide trigger exists.

Do you use any tools, techniques, or strategies to help maintain or improve your focus during work?

- ☐ Yes
- ☐ No

Logic: Hidden unless: #570 Question "Do you use any tools, techniques, or strategies to help maintain or improve your focus during work?" is one of the following answers ("Yes")

Which of the following methods do you use at least a couple of times per week to help maintain or improve your focus at work?

- ☐ Timers (e.g. Pomodoro Timer, Third Time, or another time-based technique)
- ☐ Blocking distractions (e.g. website blockers, app blockers, disabling notifications)
- ☐ Soundscapes (e.g., white noise, binaural beats, music for concentration)
- ☐ Mindfulness techniques (e.g. meditation, breathing exercises)
- ☐ Changing your environment (e.g. working from the office instead of at home)

- ☐ Keeping to-do lists (e.g. writing tasks in a notebook, using a digital planner or a notes app)
- ☐ Other, please specify: _____

Which type of interruptions or distractions do you experience more frequently during a typical workday?

- ☐ External interruptions (e.g. Slack notifications, colleagues asking questions, meetings, phone calls)
- ☐ Self-initiated distractions (e.g. checking social media, browsing unrelated websites, switching to another task before finishing the current one)
- ☐ Both of the above happen equally frequently
- ☐ I'm not sure
-

Media. Optional

The following questions are about your experience with tech media.

Which types of media do you use to keep up with tech or software development news?

- ☐ I don't follow tech news
- ☐ Aggregated news sites
- ☐ Tech-focused print media
- ☐ Tech-focused websites
- ☐ Newsletters
- ☐ Social media
- ☐ YouTube
- ☐ Podcasts
- ☐ Blogs
- ☐ Community forums
- ☐ Other, please specify: _____

Which of the following information sources do you use to keep up with news on AI tools for coding and development?*

- ☐ I don't keep up with this topic
- ☐ YouTube
- ☐ Podcasts
- ☐ Medium
- ☐ Towards Data Science
- ☐ Hacker News
- ☐ X
- ☐ LinkedIn
- ☐ Bluesky
- ☐ Hugging Face
- ☐ Kaggle
- ☐ Facebook
- ☐ GitHub
- ☐ Stack Overflow
- ☐ Reddit
- ☐ DEV Community
- ☐ Substack
- ☐ TechCrunch
- ☐ The Register
- ☐ The Verge
- ☐ Accounts, blogs, or websites of companies that build such tools
- ☐ Friends or colleagues
- ☐ Personal blogs
- ☐ Influencers and experts on social media
- ☐ Community forums
- ☐ Other, please specify:: _____

What is your primary source of tech news and development-related information?*

- ☐ Social media (e.g. Facebook, X, TikTok, Douyin)
- ☐ Online communities (e.g. Reddit, Stack Overflow, GitHub)
- ☐ News publications (e.g. Tech Crunch, The Verge, WIRED)
- ☐ Blogs (e.g. Medium, HackerNoon)
- ☐ Newsletters (e.g. Substack)
- ☐ Podcasts
- ☐ Video streaming (e.g. YouTube, Bilibili)
- ☐ Influencers and opinion leaders
- ☐ Other, please specify: _____

What do you use social media for?*

- ☐ Learning new skills
- ☐ Researching new tools
- ☐ Staying up to date with the news in tech and development
- ☐ Following brands I like
- ☐ Staying in touch with my peers
- ☐ Following influencers
- ☐ Purchasing tools required for my work
- ☐ Unwinding and entertainment
- ☐ Other, please specify: _____

Which of the following tools or subscriptions do you use?

- ☐ Tool for blocking online ads (e.g. Adblock)
- ☐ YouTube Premium
- ☐ X Premium or Premium+
- ☐ Paid subscription for ad-free Instagram or Facebook
- ☐ Telegram Premium
- ☐ Reddit Premium
- ☐ Quora+
- ☐ Twitch Turbo

☐ None of the above

When searching for answers to development-related questions, which of the following platforms do you use most frequently?

☐ Search engines

☐ Stack Overflow

☐ ChatGPT or other AI chatbots

☐ YouTube

☐ TikTok

☐ Reddit

☐ Developer forums (e.g. DEV Community, Hashnode)

☐ Official documentation (e.g. MDN, API docs)

☐ Other, please specify:: _____

Have you attended any of the following events during the last year?

| | Online | In person | Didn't attend |
|-------------|--------------------------|--------------------------|--------------------------|
| Conferences | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| User groups | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Meetups | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Workshops | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Hackathons | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Which social media platforms do you check at least once a day?

☐ Facebook

☐ X

- ☐ YouTube
- ☐ LinkedIn
- ☐ QQ
- ☐ Instagram
- ☐ Twitch
- ☐ TikTok
- ☐ Snapchat
- ☐ Tumblr
- ☐ Douyin
- ☐ Bluesky
- ☐ Other, please specify:: _____
- ☐ None

Which online communities do you check at least once a month?

- ☐ Baidu Tieba
- ☐ Quora
- ☐ Zhihu (知乎)
- ☐ Reddit
- ☐ Stack Overflow
- ☐ GitHub
- ☐ DEV Community
- ☐ Other, please specify:: _____
- ☐ None

Which of the following sites have you visited in the last six months?

- ☐ TechCrunch
- ☐ Medium
- ☐ Apple Music
- ☐ Telegram
- ☐ The Verge

- ☐ Substack
 - ☐ Spotify
 - ☐ Discord
 - ☐ DZone
 - ☐ HackerNoon
 - ☐ BiliBili
 - ☐ WeChat
 - ☐ The Register
 - ☐ Hacker News
 - ☐ CodeProject
 - ☐ Netflix
 - ☐ Other, please specify:: _____
 - ☐ None
-

Open-source

Do you contribute to open-source projects?

- ☐ Yes, I work full time on open-source code and get paid for it
 - ☐ Yes, I work full time on open-source code, but I do not get paid for it
 - ☐ Yes, I contribute regularly (at least once a month)
 - ☐ Yes, I contribute from time to time (several times a year)
 - ☐ I have contributed only a few times
 - ☐ No, but I would like to
 - ☐ No, and I would not like to
-

Thank You!

Have questions? Contact us at surveys@jetbrains.com.