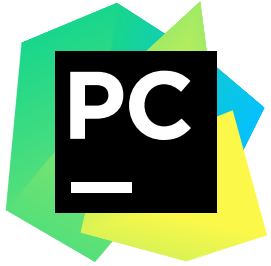




**How does PyCharm match
up against competing tools?**



PyCharm is an IDE for Python developed by JetBrains. PyCharm is built for professional Python developers, and comes with many features to deal with large code bases: code navigation, automatic refactoring, and other productivity tools, in a single unified interface. JetBrains has extensively researched various tools to come up with a comparison table below.

We tried to make it as comprehensive and neutral as we possibly can. Although we have taken care to ensure the data in this document was accurate at the time of writing, the products mentioned in the document are being actively developed and their functionality changes on a regular basis.

[Competitors](#)

[Compatibility](#)

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To learn more about the product, please visit our website at jetbrains.com/pycharm

Competitors

We will compare PyCharm Professional Edition with 2 competitors:

- Microsoft Visual Studio 2015 Enterprise with Python Tools for Visual Studio
- Eclipse with PyDev installed

There are other Python IDEs available: Wing IDE, Komodo, Spyder, and more. JetBrains internal research indicates that the vast majority of Python developers who use an IDE are using PyCharm. After PyCharm, Sublime Text and Vim are the most commonly used editors, pure text editors to be more precise. If we consider other integrated development environments (IDEs), Visual Studio

and Eclipse are the biggest by market share. For Eclipse we assume that only the PyDev plugin is installed, though additional functionality may be available in other plugins. As some Eclipse plugins have compatibility issues with each other, we are unable to verify whether configurations with more plugins would work as intended.

Compatibility

Product	Windows	Linux	macOS
PyCharm	Windows XP+	✓	10.5+ 64-bit
Visual Studio	Windows 7+	×	×
Eclipse*	✓*	✓*	✓*

* There are no published minimum system requirements for Eclipse, so specific OS versions and hardware may not work. As open source software, Eclipse comes

with no guarantees, and may run poorly or not at all on some hardware. To ensure productive usage, internal testing or external QA would need to be performed.

Feature Comparison

Feature	PyCharm	Visual Studio with PTVS	Eclipse with PyDev
Debugger			
Remote Debugging	✓	Some support	Some support
Attach to Running Process	✓	✓	✓
Debug Django templates	✓	✓	×
Inline debugger	✓	×	×
Step into my code	✓	×	×
Multi-process	✓	×	×
Run configuration	✓	×	×
Mixed mode	×	✓	×
Unit Testing			
unittest	✓	✓	✓
pytest	✓	×	✓
nosetest	✓	×	✓
Attest	✓	×	×
Doctest	✓	×	✓
BDD	✓	×	×
Frameworks			
Django	✓	✓	✓
Flask	✓	Some support	×
web2py	✓	×	×

Feature	PyCharm	Visual Studio with PTVS	Eclipse with PyDev
Pyramid	✓	×	×
SQLAlchemy	✓	×	×
Bottle	×	✓	×
Scientific			
Jupyter notebook	✓	×	×
Anaconda & Conda	✓	×	×
Code analysis			
Coverage.py	✓	×	✓
CProfile	✓	×	×
vmprof	✓	×	×
DevOps			
Puppet	✓	×	×
Microsoft Azure	×	✓	×
FTP Deploy	✓	✓	×
SFTP Deploy	✓	×	×
Refactorings			
Rename	✓	✓	✓
Delete	✓	×	×
Extract Method	✓	✓	✓
Introduce Variable	✓	×	✓
Inline Variable	✓	×	✓
Inline Method	✓	×	×

Pricing

Pricing	
PyCharm Professional	USD 199 in the 1st year USD 159 in the 2nd year USD 119 per year after Support from JetBrains is included
Visual Studio Enterprise 2015	USD 5,999 to buy with support duration depending on vendor USD 2,999 per year for subscription
Eclipse with PyDev	Free under Eclipse Public License. Comes with no support.

Community Comparison

Indicator	PyCharm	Python Tools for Visual Studio	PyDev (Eclipse)
StackOverflow Answers	12,278	561	7,861
Google Trends*	88	13	7
Twitter Followers	15.5K	1.1K	N/A

* Google Trends keywords "pycharm", "pydev", "visual studio python", time: Dec 4-10, 2016

Platform

JetBrains IDEs are built on top of a single IntelliJ Platform developed by JetBrains. This shared platform helps ease the learning curve by providing a familiar development environment across tools, languages and platforms.

When the out-of-the-box functionality is not enough, PyCharm plugin repository contains more than 700 downloadable plugins of all kinds, including those that provide support for various frameworks, additional version control systems, integrations with various tools, and editor enhancements.

Should you require integration with any solutions, services or technologies you use in the company, you can always take advantage of the extensibility of IntelliJ Platform for custom development. A powerful and rich API is available for you to extend the platform based on your needs.

Extending IntelliJ Platform significantly lowers custom development costs and efforts thanks to:

One-time plugin development work needed for all IntelliJ IDEA-based IDEs (instead of developing a dedicated plugin for each of the tools, a single plugin can be developed and made compatible with all IntelliJ IDEA-based IDEs at once).

Plugins can be developed using a single language, be it Java or Kotlin, allowing developers to leverage the platform to target any technology.

Custom plugins can be developed for any language and for any of the IDEs taking advantage of a single SDK (with a single consistent API to that SDK) for plugin/extension development.

Polyglot Experience

PyCharm is built on top of IntelliJ Platform, which means it inherits a lot of IntelliJ IDEA (e.g. editor, navigation, VCS, etc) functionality. PyCharm also benefits from the contributions made by WebStorm and DataGrip,

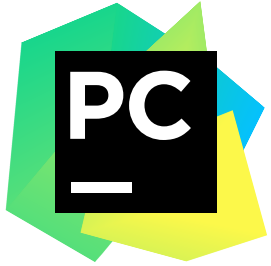
respectively JetBrains' JavaScript IDE and Database IDE. Therefore most JavaScript and Database functionality available in either WebStorm and/or DataGrip will be available in PyCharm as well.

Web language support in PyCharm Professional Edition.

Features	PyCharm Professional Edition	Sublime Text 3	Visual Studio Code 1.8	Atom 1.12.7 with Nuclide 0.188	Eclipse Neon for JavaScript and Web
JavaScript and ECMAScript support	✓	Partially	Partially	Partially	Partially
TypeScript support	✓	✓ with additional plugin	✓	✓ with additional plugin	✓ with additional plugin
HTML support	✓	✓	✓	✓	✓
CSS support	✓	✓	✓	✓	✓

As PyCharm Professional Edition's support for web technologies is contributed by WebStorm, you can consult the [WebStorm feature page](#) for detailed information regarding the support for specific web

frameworks in PyCharm Professional Edition. Similarly, for more information on the support for specific database technologies, please refer to the [DataGrip feature page](#).



More Information

We tried to make this comparison as comprehensive and neutral as we possibly can. If you discover any inaccurate items in this table, please contact us at sales@jetbrains.com and we'll update the document as soon as possible.

If you need assistance with managing your licenses, selecting a licensing option, requesting assistance with a JetBrains offer, or any special request or suggestion for JetBrains tools, please do not hesitate to contact us.

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