

# Most popular Python Frameworks & Tools

Python is an interpreted, high-level, general-purpose programming language.

## Python Frameworks

Python frameworks are the foundations for programming on which developers can build applications for a specific platform. They can include:

Classes  
Functions  
APIs

Libraries  
Compilers  
Other programs

60% of Python users choose it for both professional and personal projects

## Most widely used tools and features in Python development

- 1 Version control systems 88%
- 2 Code completion 87%
- 3 Code refactoring 86%

## Testing frameworks

pytest (46%) is the leading Python testing framework followed by unittest (32%)

## Web frameworks

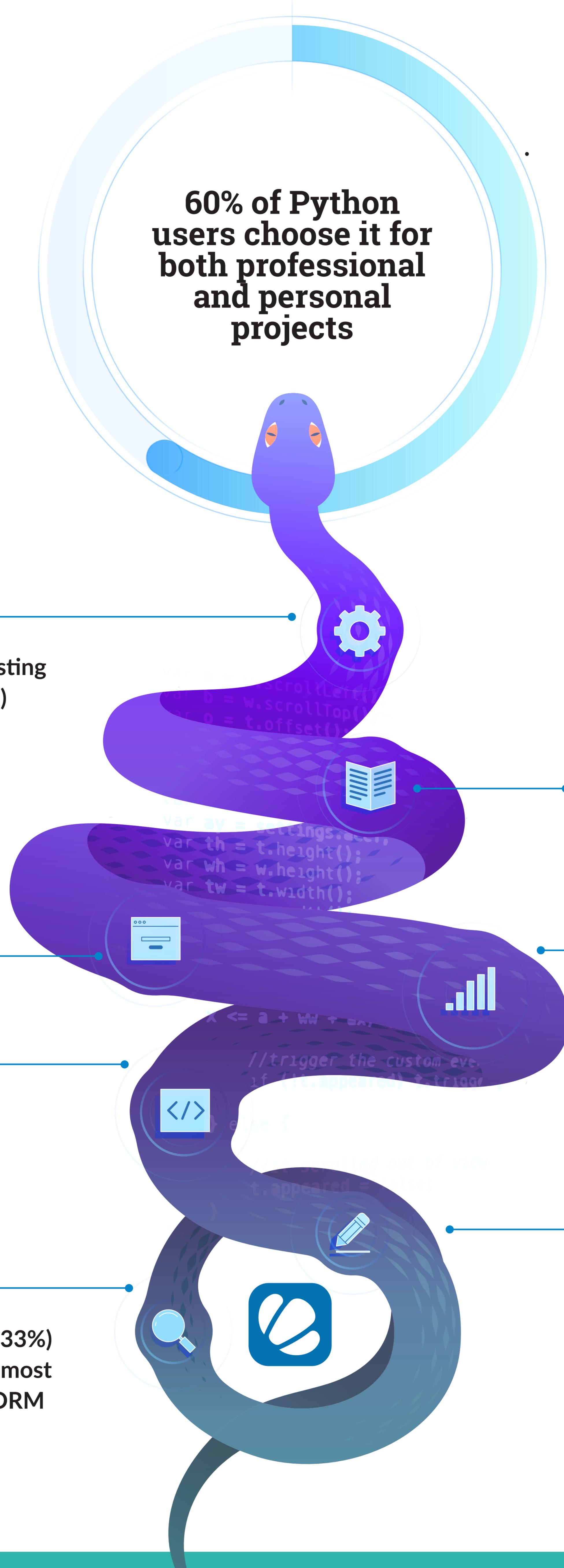
Flask (47%) and Django (45%) are the most popular Python web frameworks. Tornado (6%), web2py (6%) and Bottle (4%) complete the top 5

## Databases

PostgreSQL (44%), MySQL (41%), and SQLite (41%) are the top databases choices. MongoDB (20%) and Redis (19%) complete the top 5.

## ORMs

SQLAlchemy (34%) and Django ORM (33%) are by far the most popular ORMs. Almost half of Python developers don't use ORM



## General frameworks and libraries

Requests (53%) is the most widely used general Python library. Other popular options include Pillow (29%) for managing image file formats, and Scrapy (19%) for general web crawling

## Data Analysis frameworks and libraries

NumPy (62%) is the most widely used Python data science framework. Pandas (51%), Matplotlib (46%), SciPy (38%) and Sci-Kit Learn (31%) complete the top 5.

## Editors & IDEs

PyCharm Professional Edition (20%) is the most popular tool for Python development, especially for web. VS Code (16%) and PyCharm Community Edition (15%) follow.

## Sources

- ▶ <https://www.jetbrains.com/lp/devcosystem-2019/python/>
- ▶ <https://www.jetbrains.com/research/python-developers-survey-2018/#development-tools>
- ▶ <https://stackify.com/python-frameworks/>
- ▶ <https://pythontips.com/2018/06/03/top-14-most-famous-python-libraries-frameworks/>
- ▶ <https://hackernoon.com/5-top-python-frameworks-in-2019-ddad74323e5>
- ▶ <https://blog.usejournal.com/8-python-frameworks-libraries-to-check-out-in-2019-ee2e4de80547>