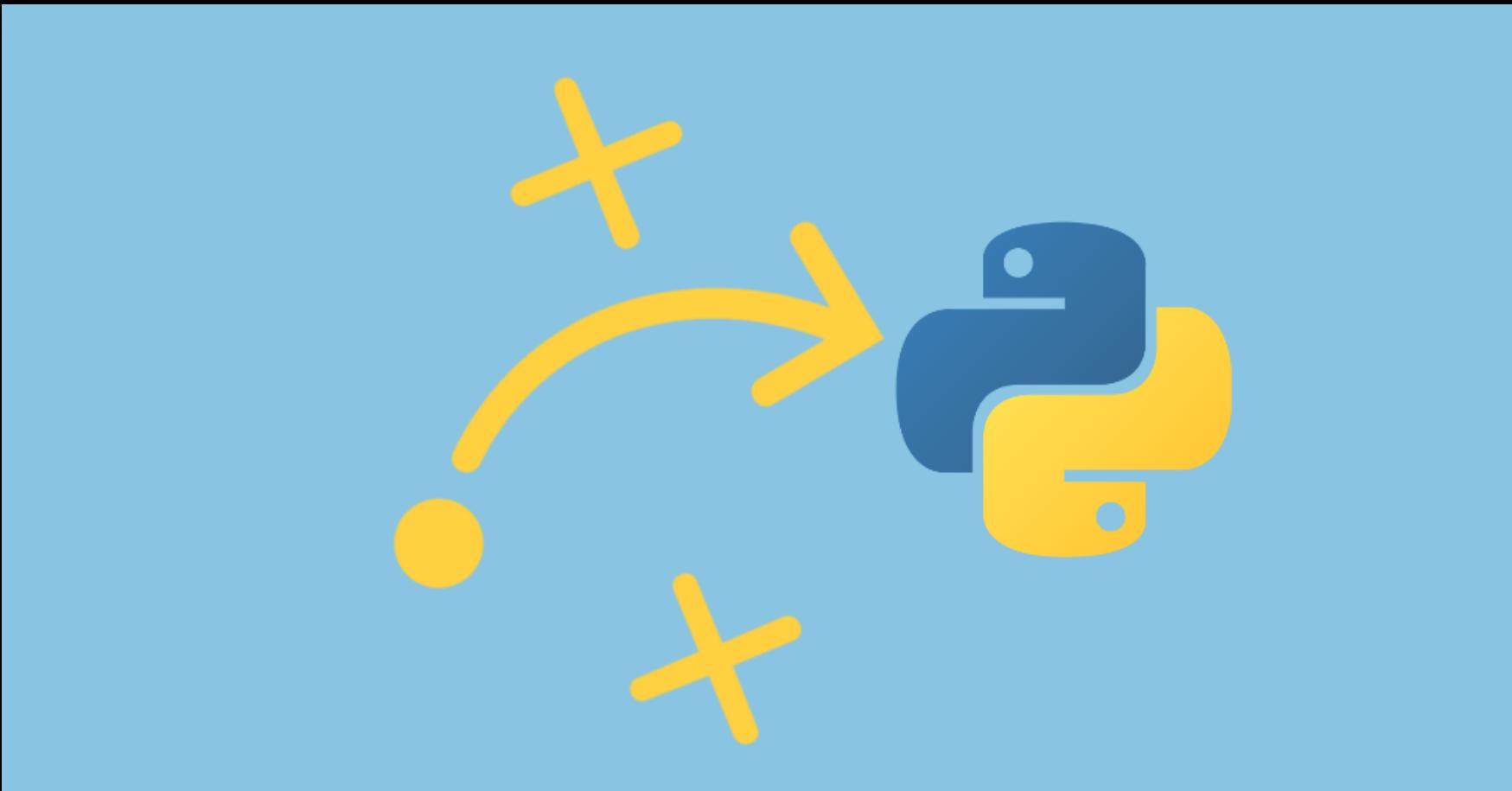


# What is Python?



# First of all, Python is not a snake

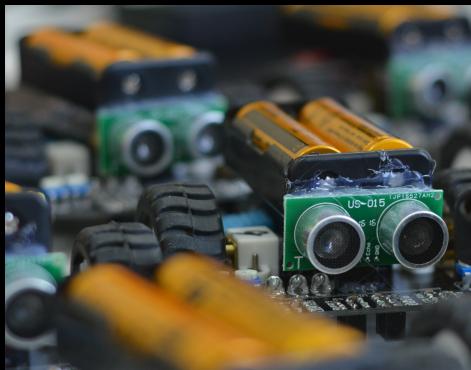


# Python is 3 things at once



```
def hello_world(name):
    print("This is Python code")
    print("Nice to meet you {name}")
```

A programming language



A rich standard library



Extensive 3rd party libraries

# Python Package Index

The screenshot shows the PyPI homepage in a web browser. The title bar reads "PyPI - The Python Package Index X". The main heading is "Find, install and publish Python packages with the Python Package Index". Below it is a search bar with "Search projects" and a magnifying glass icon. A link "Or browse projects" is also present. At the bottom, there are statistics: "206,109 projects", "1,553,053 releases", "2,318,463 files", and "387,621 users". The "206,109 projects" statistic is highlighted with a red rectangular box. The footer features the Python logo and the text: "The Python Package Index (PyPI) is a repository of software for the Python programming language."

<https://pypi.org/>

# Where to start?

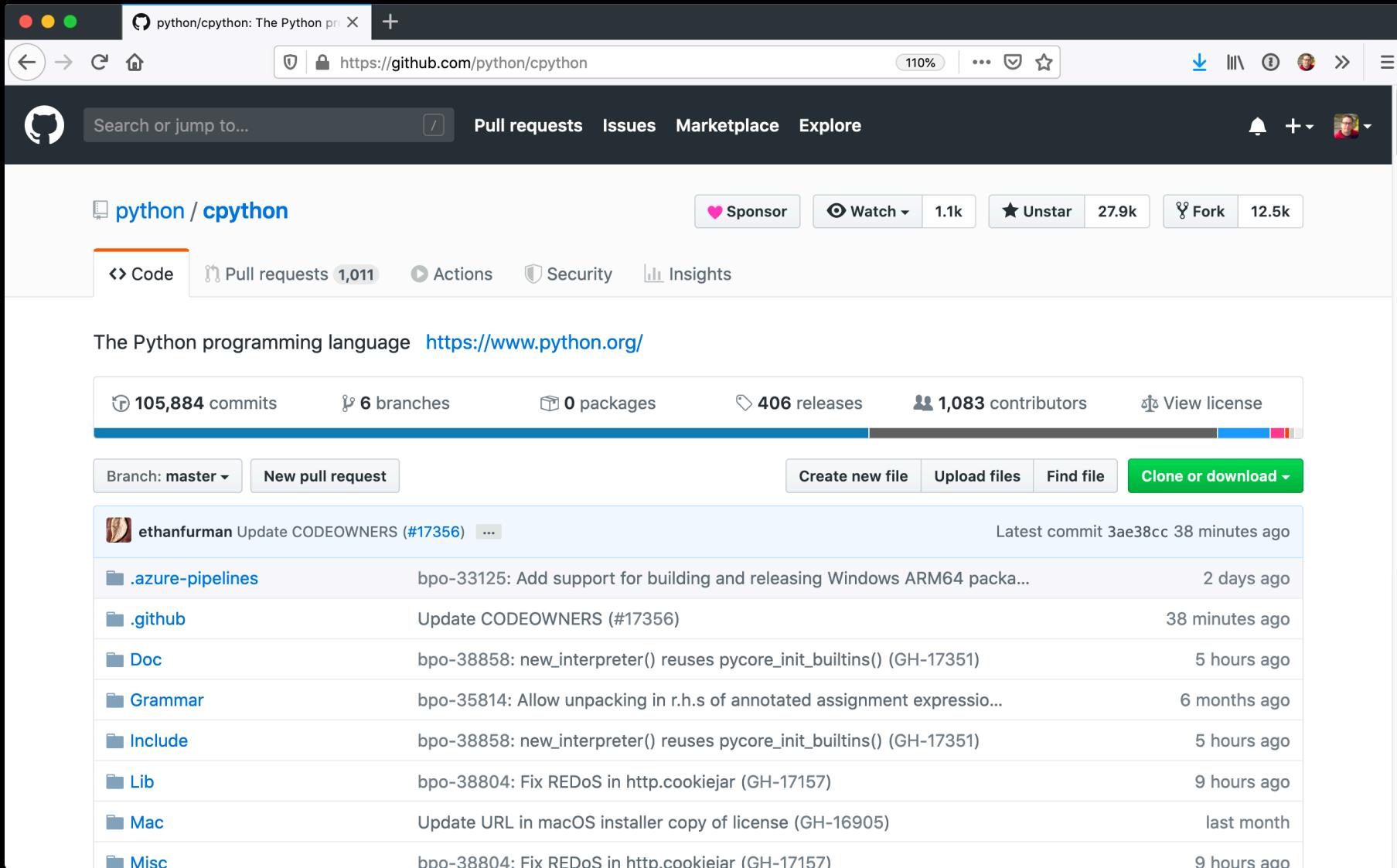
A screenshot of a web browser window displaying the [Awesome Python](https://awesome-python.com) website. The browser has a dark theme with a red header bar. The title bar shows the page is titled "Awesome Python". The address bar shows the URL <https://awesome-python.com>. The page itself has a white background with a red header bar containing the site's name and a search bar. To the right of the search bar is a GitHub icon and the repository information "vinta/awesome-python 76k Stars · 15k Forks". The main content area features the heading "Awesome Python" with a subtitle "A curated list of awesome Python frameworks, libraries, software and resources." Below this, there is a note "Inspired by [awesome-php](#)". A horizontal dotted line separates this from the "Admin Panels" section. The "Admin Panels" section contains the heading "Admin Panels" and a sub-section "Libraries for administrative interfaces." followed by a bulleted list of nine Python packages: [ajenti](#), [django-grappelli](#), [django-jet](#), [django-suit](#), [django-xadmin](#), [jet-bridge](#), [flask-admin](#), and [flower](#). To the right of this list is a "Table of contents" sidebar with a vertical scroll bar, listing various Python categories such as Admin Panels, Algorithms and Design Patterns, Asynchronous Programming, Audio, Authentication, Build Tools, Built-in Classes Enhancement, CMS, Caching, ChatOps Tools, Code Analysis, Command-line Interface Development, Command-line Tools, Compatibility, Computer Vision, Concurrency and Parallelism, Configuration, and Cryptography.

<https://awesome-python.com/>



Python is a full spectrum language

# Python is open source



The screenshot shows the GitHub repository page for `python/cpython`. The page title is "python / cpython". Key statistics displayed include 105,884 commits, 6 branches, 0 packages, 406 releases, and 1,083 contributors. A recent commit by `ethanfurman` was made 38 minutes ago. The repository URL is <https://github.com/python/cpython>.

The Python programming language <https://www.python.org/>

105,884 commits	6 branches	0 packages	406 releases	1,083 contributors	View license																																				
Branch: master	New pull request	Create new file	Upload files	Find file	Clone or download																																				
<table border="1"><thead><tr><th>ethanfurman</th><th>Update CODEOWNERS (#17356)</th><th>...</th><th>Latest commit 3ae38cc 38 minutes ago</th></tr></thead><tbody><tr><td>.azure-pipelines</td><td>bpo-33125: Add support for building and releasing Windows ARM64 packa...</td><td></td><td>2 days ago</td></tr><tr><td>.github</td><td>Update CODEOWNERS (#17356)</td><td></td><td>38 minutes ago</td></tr><tr><td>Doc</td><td>bpo-38858: new_interpreter() reuses pycore_init_builtins() (GH-17351)</td><td></td><td>5 hours ago</td></tr><tr><td>Grammar</td><td>bpo-35814: Allow unpacking in r.h.s of annotated assignment expressio...</td><td></td><td>6 months ago</td></tr><tr><td>Include</td><td>bpo-38858: new_interpreter() reuses pycore_init_builtins() (GH-17351)</td><td></td><td>5 hours ago</td></tr><tr><td>Lib</td><td>bpo-38804: Fix REDoS in http.cookiejar (GH-17157)</td><td></td><td>9 hours ago</td></tr><tr><td>Mac</td><td>Update URL in macOS installer copy of license (GH-16905)</td><td></td><td>last month</td></tr><tr><td>Misc</td><td>bpo-38804: Fix REDoS in http.cookiejar (GH-17157)</td><td></td><td>9 hours ago</td></tr></tbody></table>						ethanfurman	Update CODEOWNERS (#17356)	...	Latest commit 3ae38cc 38 minutes ago	.azure-pipelines	bpo-33125: Add support for building and releasing Windows ARM64 packa...		2 days ago	.github	Update CODEOWNERS (#17356)		38 minutes ago	Doc	bpo-38858: new_interpreter() reuses pycore_init_builtins() (GH-17351)		5 hours ago	Grammar	bpo-35814: Allow unpacking in r.h.s of annotated assignment expressio...		6 months ago	Include	bpo-38858: new_interpreter() reuses pycore_init_builtins() (GH-17351)		5 hours ago	Lib	bpo-38804: Fix REDoS in http.cookiejar (GH-17157)		9 hours ago	Mac	Update URL in macOS installer copy of license (GH-16905)		last month	Misc	bpo-38804: Fix REDoS in http.cookiejar (GH-17157)		9 hours ago
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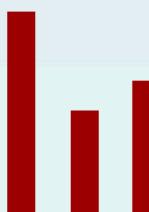
<https://github.com/python/cpython>

# Broader open source



THE STATE OF  
**ENTERPRISE OPEN SOURCE**

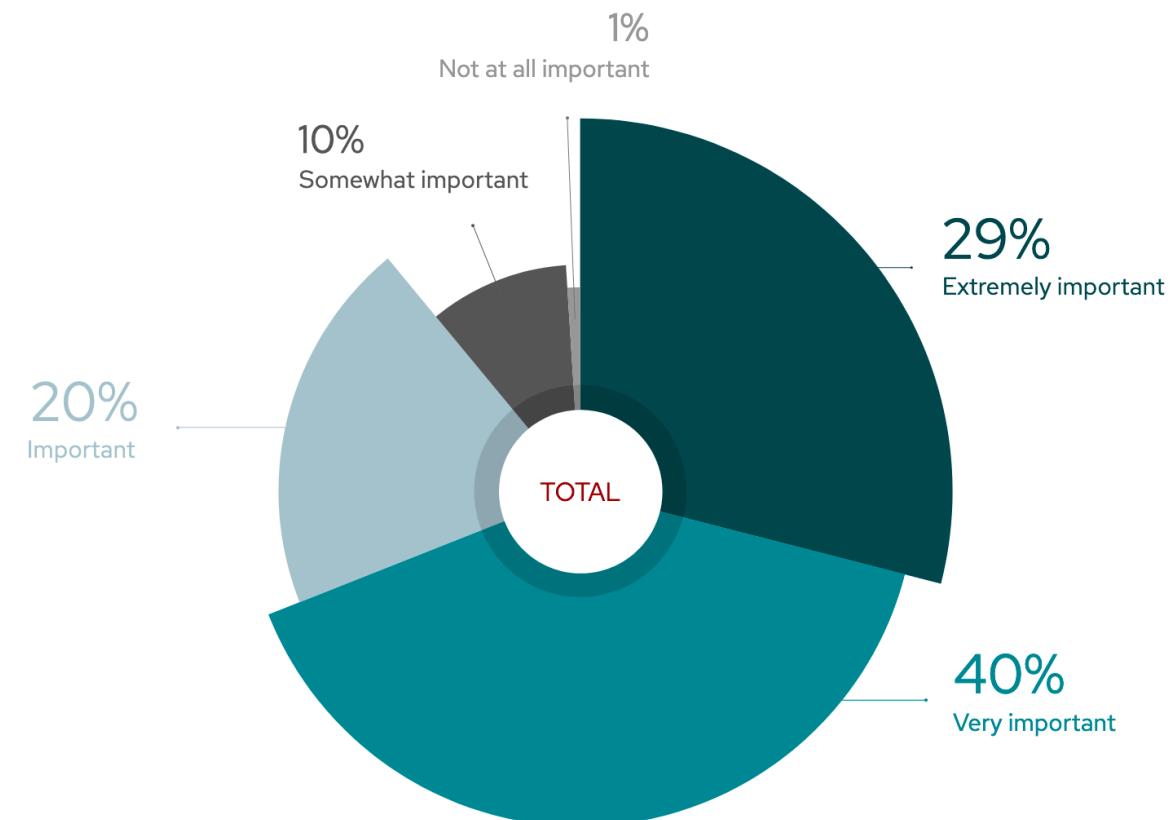
A RED HAT® REPORT



# Open source's role in the enterprise

## Enterprise open source plays a strategic role

Importance of enterprise open source



# Open source is genuinely better software

Innovation and security rank among the top benefits of using enterprise open source solutions

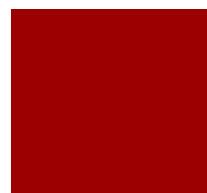
33%

Lower total cost of ownership



29%

Access to the latest innovations



29%

Better security



26%

Higher quality software



25%

Access to enterprise-level support



25%

Ability to customize applications



*"Open source is increasingly used not because it's cheaper—though it often is—but because it's genuinely better software."*