

# GETTING STARTED WITH PYTHON





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Try the following five steps outlined on the next slides.

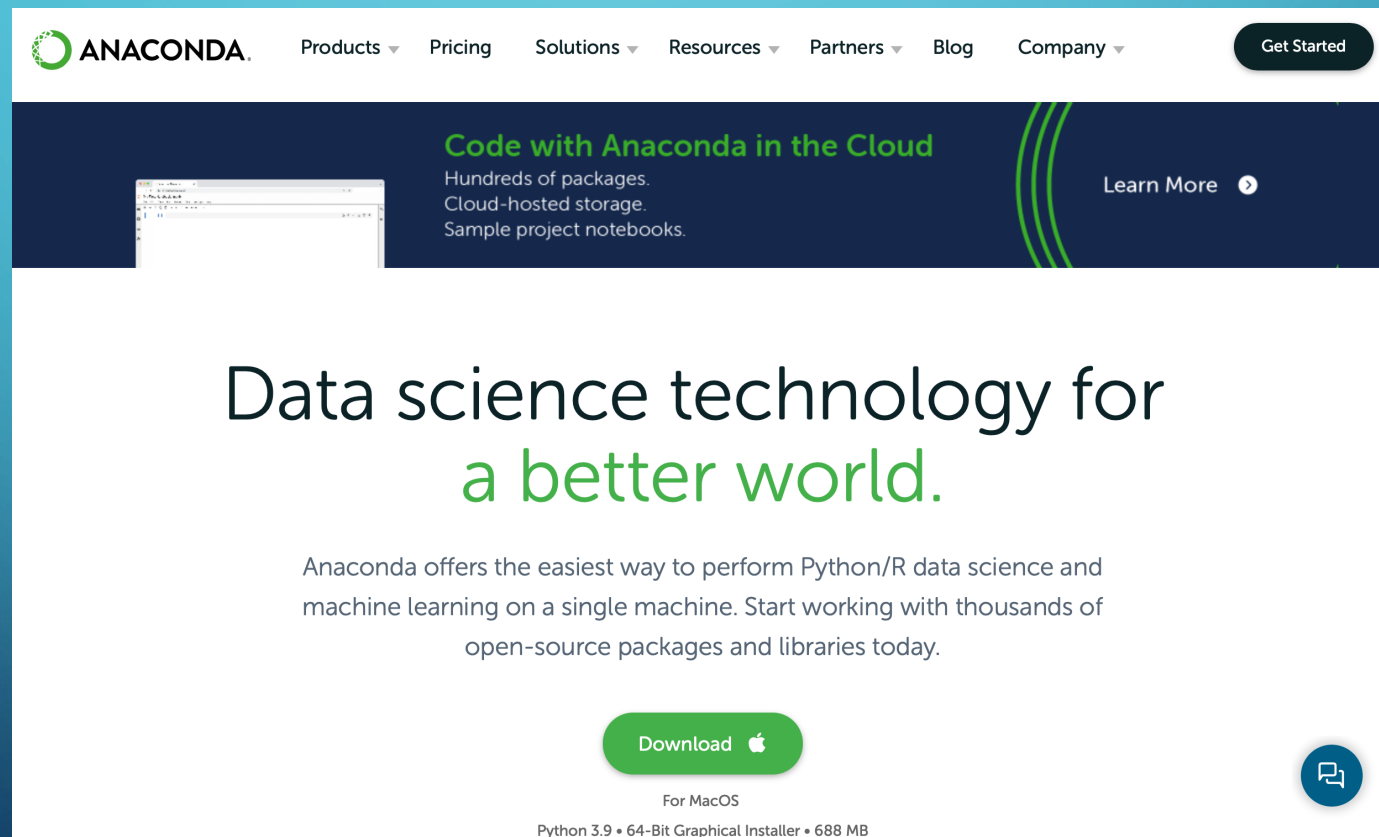
If you have trouble with the installation or launching/using JupyterLab please attend the drop-in help sessions hosted by Kishan Dhankecha:

Wednesday September 13, 2:30-4:30pm in Room 2L14

Wednesday September 20, 2:30-4:30pm in Room 2L14

# 1. DOWNLOAD ANACONDA

<https://www.anaconda.com>




The screenshot shows the Anaconda website homepage. At the top, there is a navigation bar with the Anaconda logo and links for Products, Pricing, Solutions, Resources, Partners, Blog, and Company. A 'Get Started' button is located in the top right corner. Below the navigation bar is a dark blue banner with the text 'Code with Anaconda in the Cloud' and a 'Learn More' button. The main content area features the headline 'Data science technology for a better world.' followed by a paragraph describing Anaconda's capabilities. A 'Download' button with an Apple logo is prominently displayed, with the text 'For MacOS' below it. At the bottom, it specifies 'Python 3.9 • 64-Bit Graphical Installer • 688 MB'. A small circular icon is visible in the bottom right corner of the page.

**ANACONDA.** Products ▾ Pricing Solutions ▾ Resources ▾ Partners ▾ Blog Company ▾ [Get Started](#)

**Code with Anaconda in the Cloud**  
Hundreds of packages.  
Cloud-hosted storage.  
Sample project notebooks. [Learn More](#) ▶

## Data science technology for a better world.

Anaconda offers the easiest way to perform Python/R data science and machine learning on a single machine. Start working with thousands of open-source packages and libraries today.

[Download](#) 

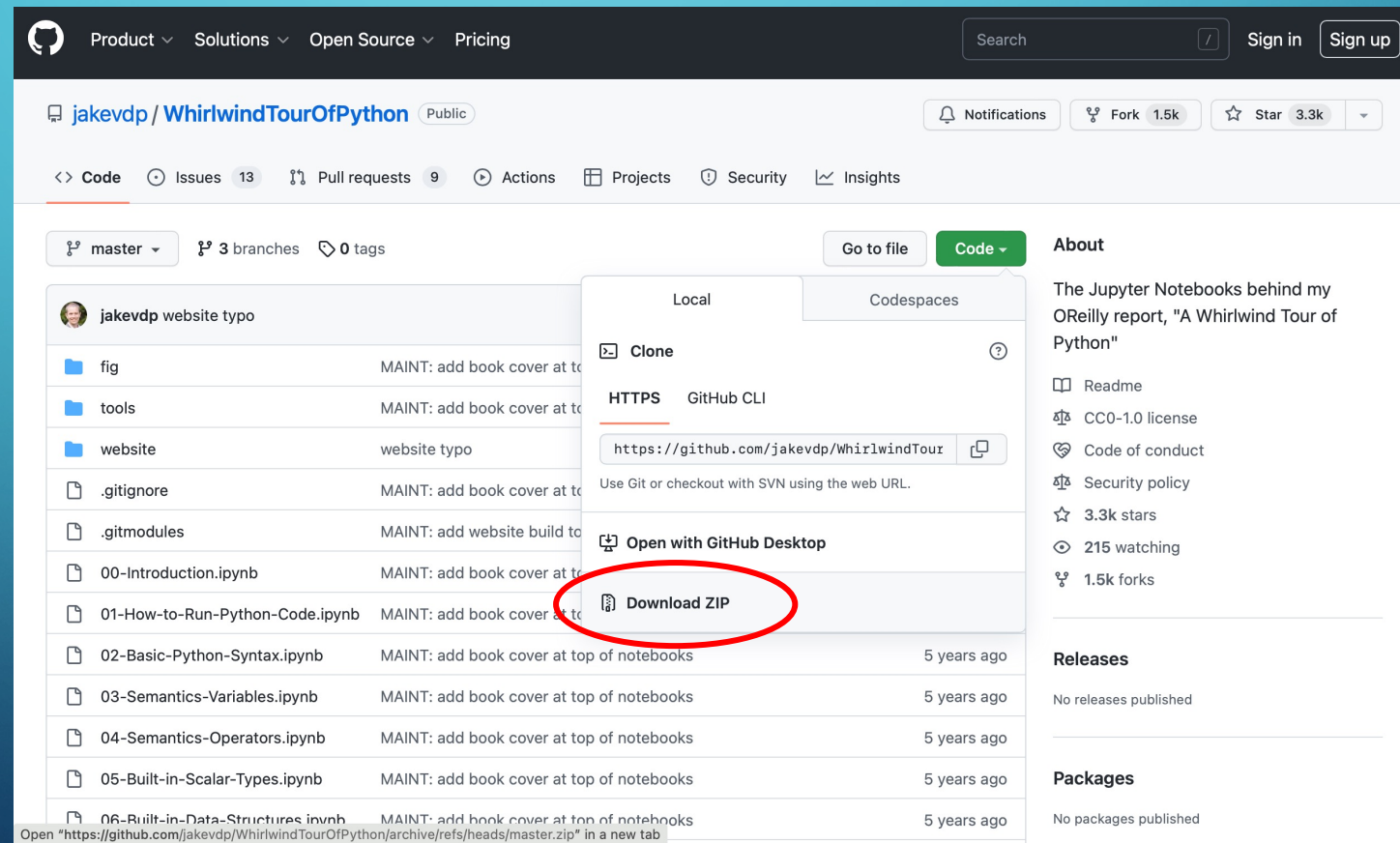
For MacOS

Python 3.9 • 64-Bit Graphical Installer • 688 MB

## 2. DOWNLOAD WHIRLWIND TOUR OF PYTHON

<https://jakevdp.github.io/WhirlwindTourOfPython/>

<https://github.com/jakevdp/WhirlwindTourOfPython>



The screenshot shows the GitHub repository page for 'jakevdp/WhirlwindTourOfPython'. The repository is public and has 1.5k forks and 3.3k stars. The file list includes folders like 'fig', 'tools', and 'website', and files like '.gitignore', '.gitmodules', and several Jupyter Notebook files (e.g., '00-Introduction.ipynb', '01-How-to-Run-Python-Code.ipynb', etc.). A context menu is open over the file list, showing options like 'Clone', 'Open with GitHub Desktop', and 'Download ZIP'. The 'Download ZIP' option is highlighted with a red circle. The 'About' section on the right provides details about the repository, including the README, license (CC0-1.0), and the number of stars and forks.

Product Solutions Open Source Pricing Search Sign in Sign up

jakevdp / WhirlwindTourOfPython Public Notifications Fork 1.5k Star 3.3k

Code Issues 13 Pull requests 9 Actions Projects Security Insights

master 3 branches 0 tags Go to file Code

jakevdp website typo

- fig MAINT: add book cover at top of notebooks
- tools MAINT: add book cover at top of notebooks
- website website typo
- .gitignore MAINT: add book cover at top of notebooks
- .gitmodules MAINT: add website build to top of notebooks
- 00-Introduction.ipynb MAINT: add book cover at top of notebooks
- 01-How-to-Run-Python-Code.ipynb MAINT: add book cover at top of notebooks
- 02-Basic-Python-Syntax.ipynb MAINT: add book cover at top of notebooks 5 years ago
- 03-Semantics-Variables.ipynb MAINT: add book cover at top of notebooks 5 years ago
- 04-Semantics-Operators.ipynb MAINT: add book cover at top of notebooks 5 years ago
- 05-Built-in-Scalar-Types.ipynb MAINT: add book cover at top of notebooks 5 years ago
- 06-Built-in-Data-Structures.ipynb MAINT: add book cover at top of notebooks 5 years ago

Local Codespaces

Clone ?

HTTPS GitHub CLI

https://github.com/jakevdp/WhirlwindTourOfPython

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

About

The Jupyter Notebooks behind my O'Reilly report, "A Whirlwind Tour of Python"

- Readme
- CC0-1.0 license
- Code of conduct
- Security policy
- 3.3k stars
- 215 watching
- 1.5k forks

Releases

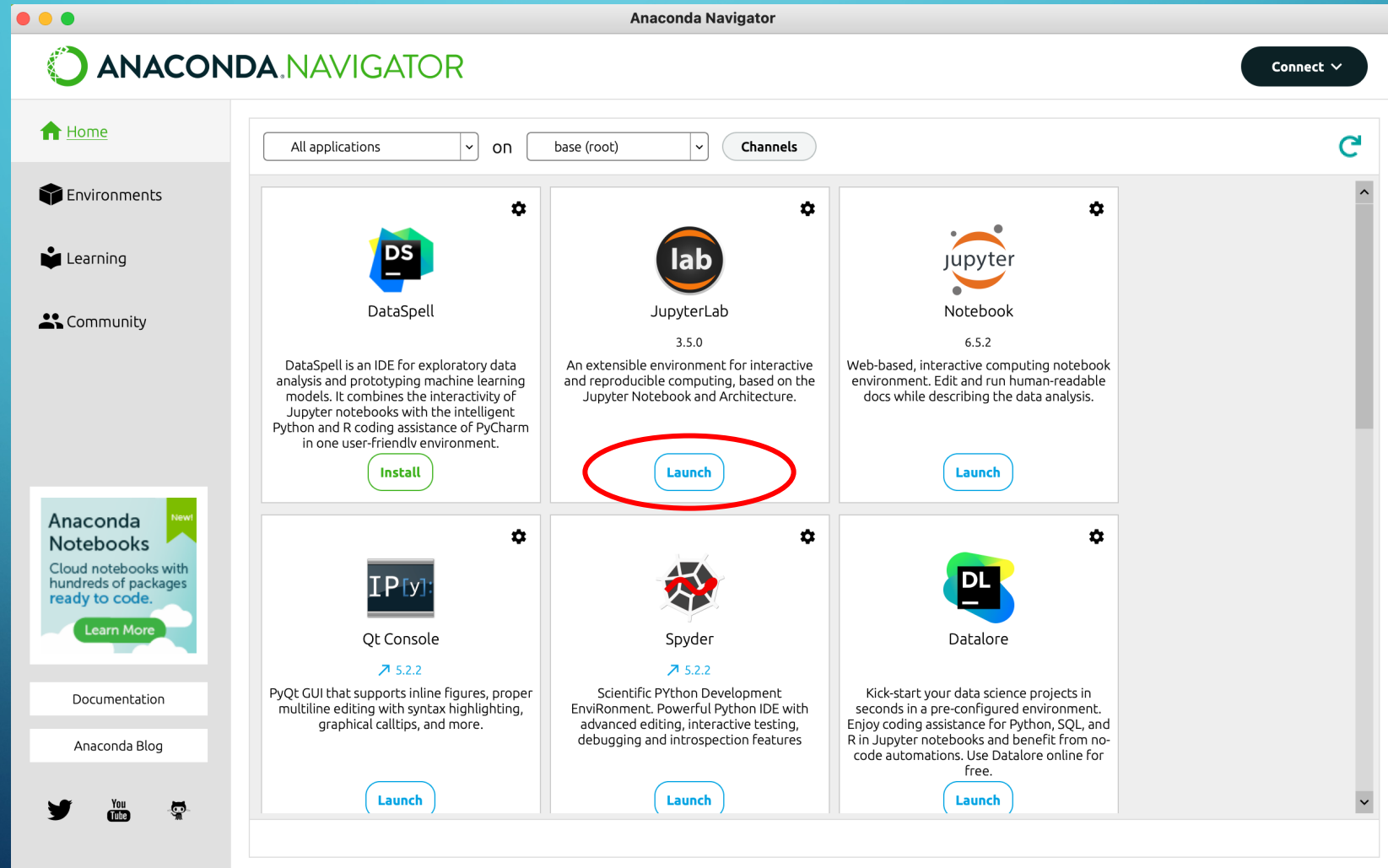
No releases published

Packages

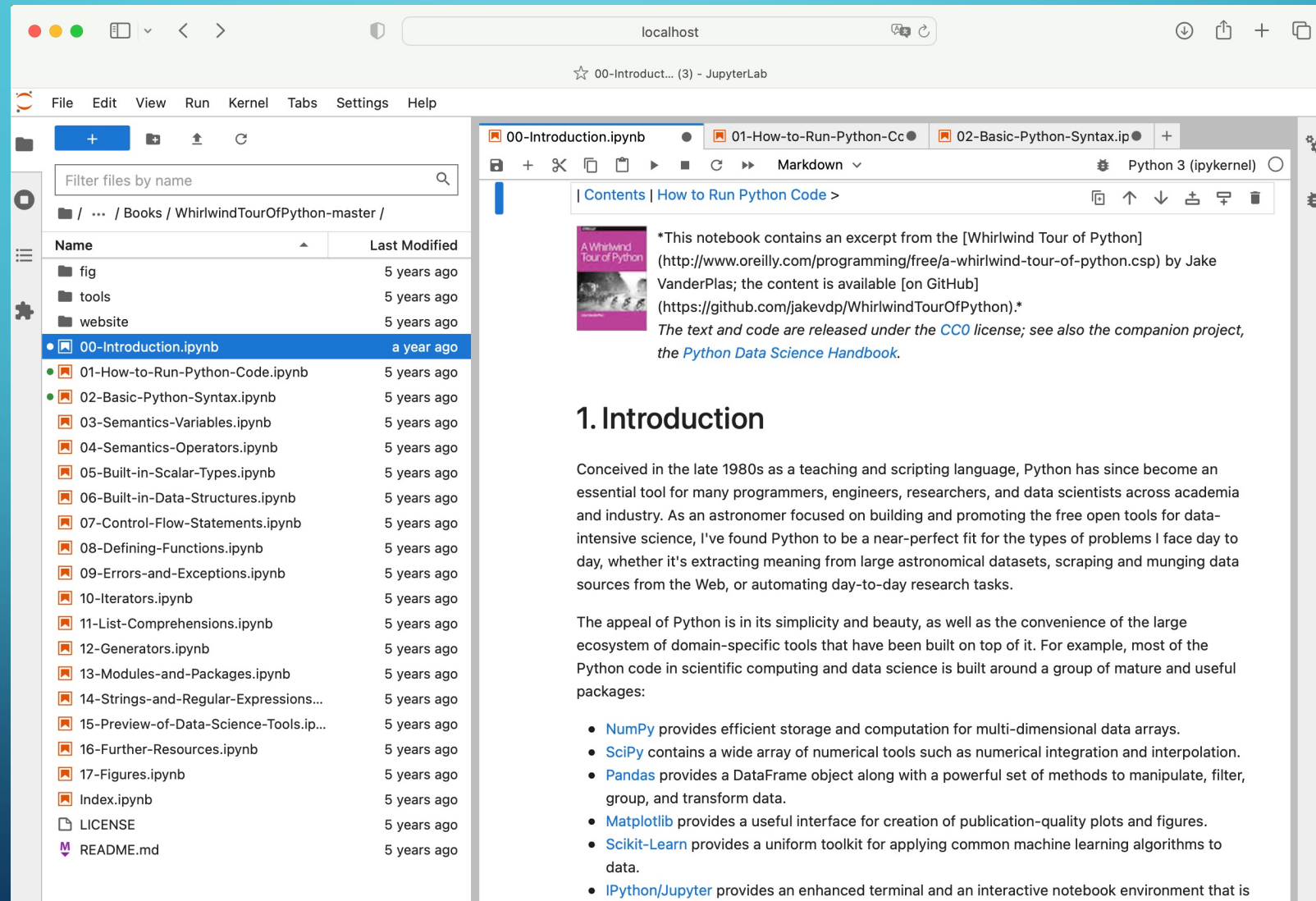
No packages published

Open "https://github.com/jakevdp/WhirlwindTourOfPython/archive/refs/heads/master.zip" in a new tab

# 3. OPEN ANACONDA-NAVIGATOR / LAUNCH JUPYTER LAB



# 4. OPEN WHIRLWIND TOUR OF PYTHON



The screenshot displays the JupyterLab interface. On the left, a file browser shows a directory structure with a search bar and a table of files. The selected file is '00-Introduction.ipynb'. The main area shows the notebook content, which includes a title '1. Introduction' and a paragraph of text about Python's history and use in data science. A list of packages is provided at the bottom.

Name	Last Modified
fig	5 years ago
tools	5 years ago
website	5 years ago
00-Introduction.ipynb	a year ago
01-How-to-Run-Python-Code.ipynb	5 years ago
02-Basic-Python-Syntax.ipynb	5 years ago
03-Semantics-Variables.ipynb	5 years ago
04-Semantics-Operators.ipynb	5 years ago
05-Built-in-Scalar-Types.ipynb	5 years ago
06-Built-in-Data-Structures.ipynb	5 years ago
07-Control-Flow-Statements.ipynb	5 years ago
08-Defining-Functions.ipynb	5 years ago
09-Errors-and-Exceptions.ipynb	5 years ago
10-Iterators.ipynb	5 years ago
11-List-Comprehensions.ipynb	5 years ago
12-Generators.ipynb	5 years ago
13-Modules-and-Packages.ipynb	5 years ago
14-Strings-and-Regular-Expressions...	5 years ago
15-Preview-of-Data-Science-Tools.ip...	5 years ago
16-Further-Resources.ipynb	5 years ago
17-Figures.ipynb	5 years ago
Index.ipynb	5 years ago
LICENSE	5 years ago
README.md	5 years ago

**1. Introduction**

Conceived in the late 1980s as a teaching and scripting language, Python has since become an essential tool for many programmers, engineers, researchers, and data scientists across academia and industry. As an astronomer focused on building and promoting the free open tools for data-intensive science, I've found Python to be a near-perfect fit for the types of problems I face day to day, whether it's extracting meaning from large astronomical datasets, scraping and munging data sources from the Web, or automating day-to-day research tasks.

The appeal of Python is in its simplicity and beauty, as well as the convenience of the large ecosystem of domain-specific tools that have been built on top of it. For example, most of the Python code in scientific computing and data science is built around a group of mature and useful packages:

- **NumPy** provides efficient storage and computation for multi-dimensional data arrays.
- **SciPy** contains a wide array of numerical tools such as numerical integration and interpolation.
- **Pandas** provides a DataFrame object along with a powerful set of methods to manipulate, filter, group, and transform data.
- **Matplotlib** provides a useful interface for creation of publication-quality plots and figures.
- **Scikit-Learn** provides a uniform toolkit for applying common machine learning algorithms to data.
- **IPython/Jupyter** provides an enhanced terminal and an interactive notebook environment that is

A decorative graphic on the left side of the slide consists of white, stylized circuit lines. These lines are vertical and horizontal, with small circles at various points, resembling a printed circuit board or a network diagram. The lines are set against a dark blue background that transitions to a lighter blue at the top.

5. READ, EXPLORE, PLAY, HAVE FUN!