

Get Started with Python

Setting up your development environment

Visual Studio Code

<https://code.visualstudio.com>

The image shows the Visual Studio Code website and application interface. The website header includes the Visual Studio Code logo, navigation links (Docs, Updates, Blog, API, Extensions, FAQ, Learn), a search bar, and a 'Download' button. A banner below the header states 'Version 1.84 is now available! Read about the new features and fixes from October.' The main content area features the text 'Code editing. Redefined.' and 'Free. Built on open source. Runs everywhere.' Below this is a 'Download for Windows' button with a dropdown arrow, and a link to 'Web, Insiders edition, or other platforms'. A note states 'By using VS Code, you agree to its license and privacy statement.' The application interface is shown on the right, displaying the 'EXTENSIONS MARKETPLACE' sidebar with a list of installed and available extensions, including Python, GitLens, C/C++, ESLint, Debugger for Chrome, Language Support for JavaScript, vscode-icons, Vector, and C#. The main editor area shows a JavaScript file named 'serviceWorker.js' with code for registering a service worker. The terminal at the bottom displays the output of a command, showing the local and network URLs for the application.

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Version 1.84 is now available! Read about the new features and fixes from October.

Code editing. Redefined.

Free. Built on open source. Runs everywhere.

Download for Windows Stable Build

Web, Insiders edition, or other platforms

By using VS Code, you agree to its license and privacy statement.

EXTENSIONS MARKETPLACE

- @vscode/remote-explorer
- Python 2019.6.24221 54.9M 4.5
- Linting, Debugging (multi-threaded) ...
- Microsoft
- GitLens — Git sup... 9.8.5 23.1M 4.5
- Supercharge the Git capabilities bol...
- Eric Amedeo
- C/C++ 0.24.0 2.9M 4.5
- C/C++ IntelliSense, debugging, and ...
- Microsoft
- ESLint 1.9.0 21.9M 4.5
- Integrates ESLint JavaScript into VS ...
- Dev. Baesener
- Debugger for Ch... 4.11.6 20.9M 4.4
- Debug your JavaScript code in the C...
- Microsoft
- Language Supp... 0.47.0 18.7M 4.5
- Java Linting, IntelliSense, formatting, ...
- Red Hat
- vscode-icons 0.8.0 17.2M 4.5
- Icons for Visual Studio Code
- VSCode Icons Team
- Vector 0.2.1 17M 4.5
- Vue tooling for VS Code
- Pine Wu
- C# 1.21.0 15.6M 4.4
- C# for Visual Studio Code (powered ...
- Microsoft

File Edit Selection View Go Debug Terminal Help serviceWorker.js - create-react-app - Visual Studio Code - In...

```
src > .\serviceWorker.js > @register > @window.addEventListener(load) callback
checkValidServiceWorker(swUrl, config);
// Add some additional logging to localhost, p...
// service worker/PWA documentation.
navigator.serviceWorker.ready.then(() => {
  product
  productSub
  removeSiteSpecificTrackingException
  removeWebbideTrackingException
  requestMediaKeySystemAccess
  sendBeacon
  serviceWorker (property) Navigator.serviceWork...
  storage
  storeSiteSpecificTrackingException
  storeWebbideTrackingException
  userAgent
  vendor
function registerValidSw(swUrl, config) {
  navigator.serviceWorker
    .register(swUrl)
    .then(registration) => {
```

TERMINAL


You can now view create-react-app in the browser.

Local: http://localhost:3000/
On Your Network: http://10.211.55.3:3000/

Note that the development build is not optimized.

Git

<https://git-scm.com/downloads>



 **git** --fast-version-control


Search entire site...

[About](#)
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 [GUI Clients](#)
 [Logos](#)
[Community](#)

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on [Amazon.com](#).

Downloads

 [macOS](#)  [Windows](#)

 [Linux/Unix](#)

Older releases are available and the Git source repository is on [GitHub](#).

GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.


[View Logos →](#)

Git via Git


If you already have Git installed, you can get the latest development version via Git itself:

```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).



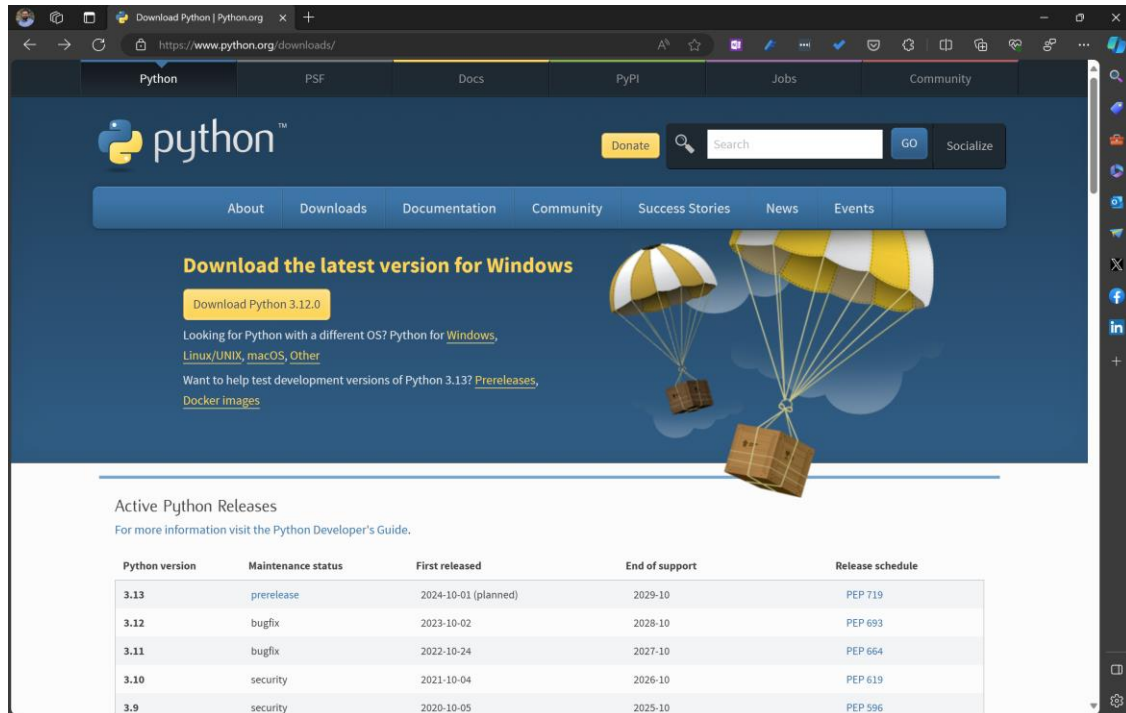
Latest source Release
2.42.1
Release Notes (2023-11-02)
[Download for Windows](#)

 [About this site](#)
Patches, suggestions, and comments are welcome.

Git is a member of [Software Freedom Conservancy](#)

Get Python

<https://www.python.org/downloads/>



The screenshot shows the Python.org website's download page. The header includes the Python logo, a search bar, and navigation links. The main content area features a large banner with the text "Download the latest version for Windows" and a button to "Download Python 3.12.0". Below this, there are links for other operating systems and pre-releases. The bottom section, titled "Active Python Releases", contains a table with release details.

Download the latest version for Windows

[Download Python 3.12.0](#)

Looking for Python with a different OS? Python for [Windows](#), [Linux/UNIX](#), [macOS](#), [Other](#)

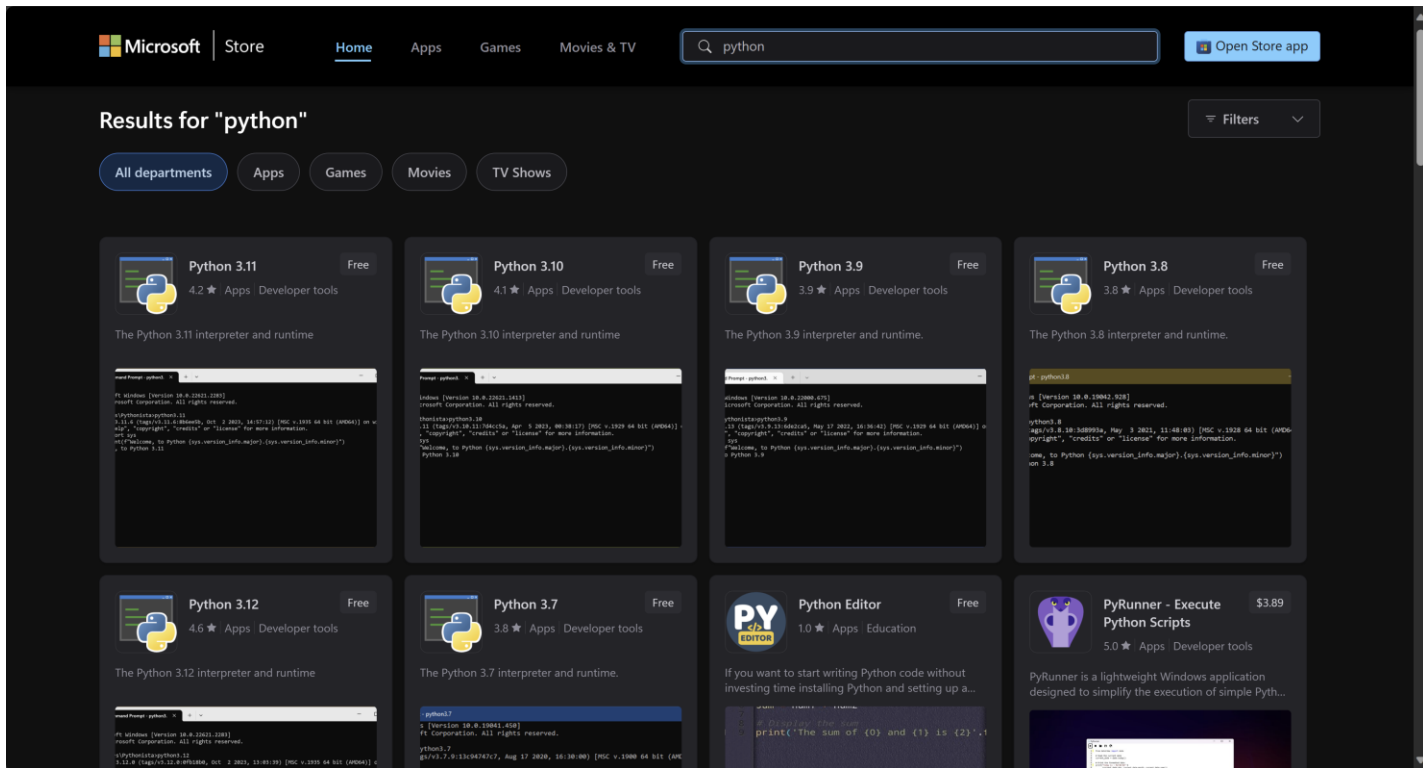
Want to help test development versions of Python 3.13? [Prereleases](#), [Docker images](#)

Active Python Releases

For more information visit the [Python Developer's Guide](#).

Python version	Maintenance status	First released	End of support	Release schedule
3.13	prerelease	2024-10-01 (planned)	2029-10	PEP 719
3.12	bugfix	2023-10-02	2028-10	PEP 693
3.11	bugfix	2022-10-24	2027-10	PEP 664
3.10	security	2021-10-04	2026-10	PEP 619
3.9	security	2020-10-05	2025-10	PEP 596

Python in the Microsoft Store



What is a Python version?

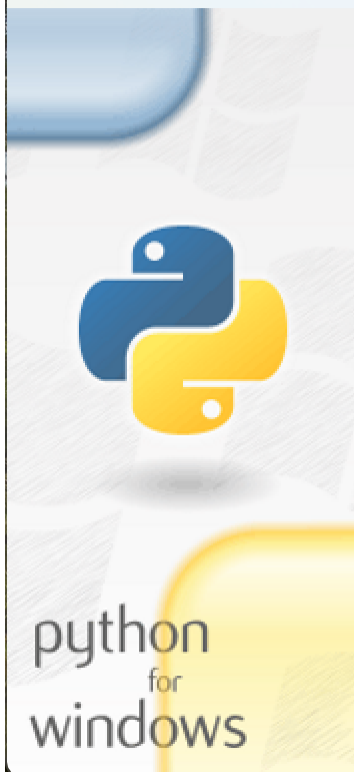
Looking for a specific release?

Python releases by version number:

Release version	Release date	Click for more	
Python 3.12.0	Oct. 2, 2023	Download	Release Notes
Python 3.11.6	Oct. 2, 2023	Download	Release Notes
Python 3.11.5	Aug. 24, 2023	Download	Release Notes
Python 3.10.13	Aug. 24, 2023	Download	Release Notes
Python 3.9.18	Aug. 24, 2023	Download	Release Notes
Python 3.8.18	Aug. 24, 2023	Download	Release Notes
Python 3.10.12	June 6, 2023	Download	Release Notes

[View older releases](#)

The Python core team releases minor versions of Python also known as “feature releases” currently at a pace of once a year.



Install Python 3.9.10 (64-bit)

Select Install Now to install Python with default settings, or choose Customize to enable or disable features.



Install Now

C:\Users\EricDBoyd\AppData\Local\Programs\Python\Python39

Includes IDLE, pip and documentation
Creates shortcuts and file associations



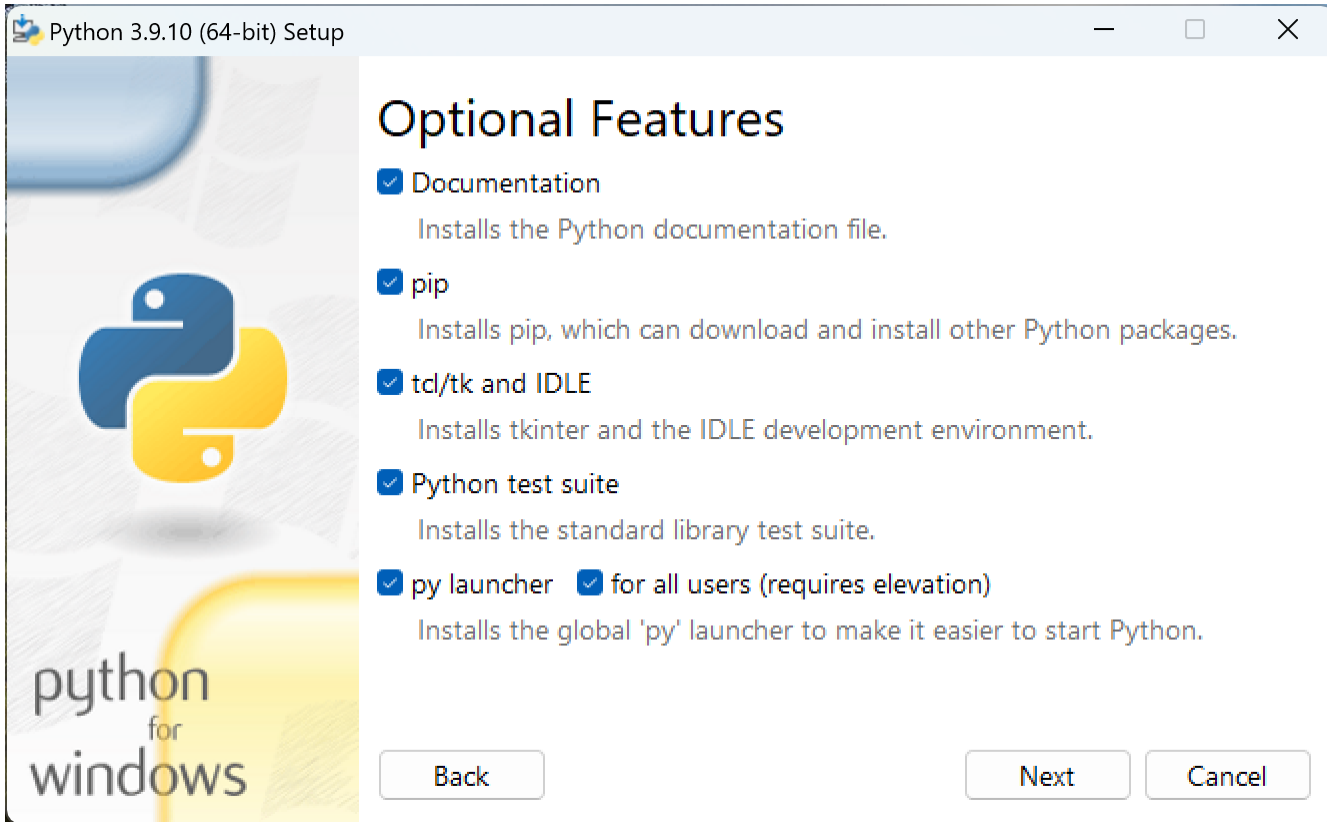
Customize installation

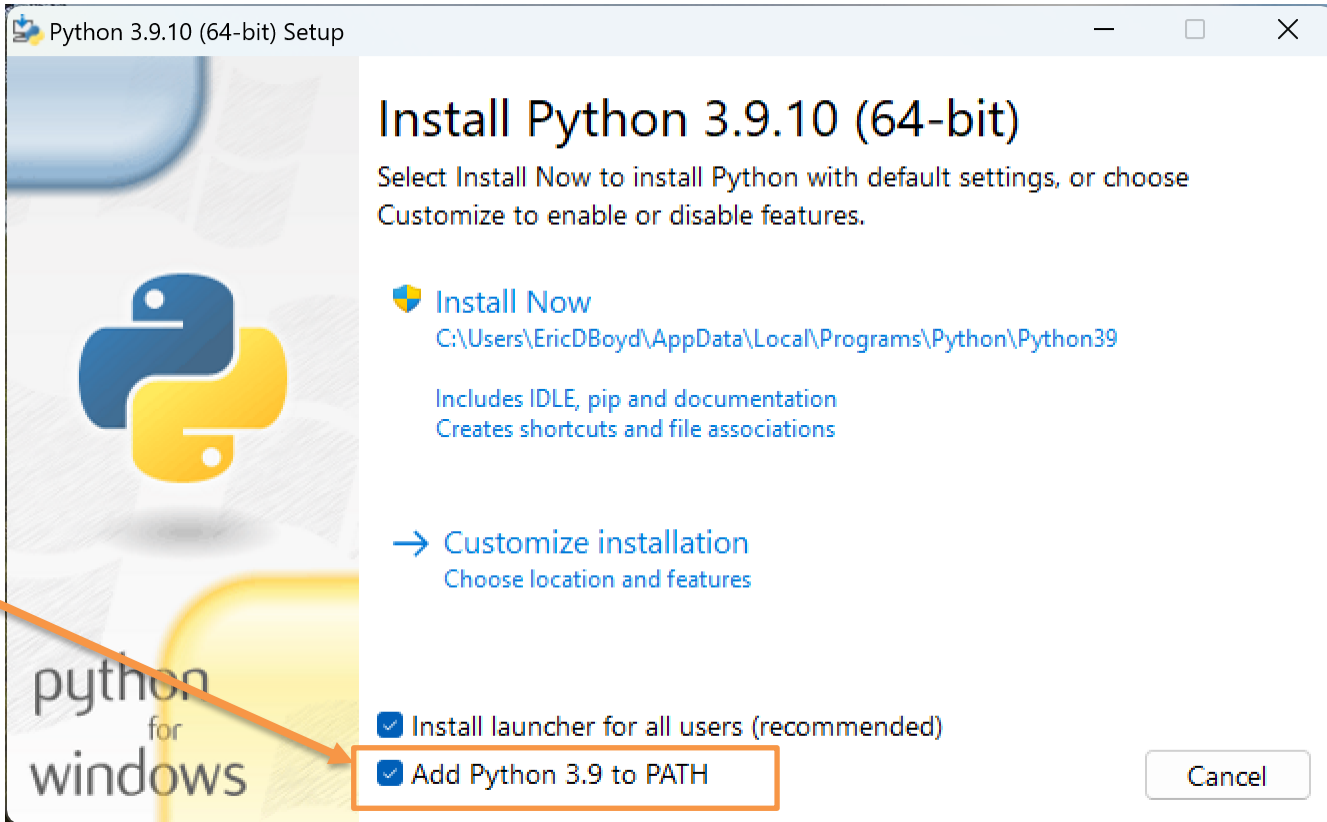
Choose location and features

☒ Install launcher for all users (recommended)

☐ Add Python 3.9 to PATH

Cancel





Python 3.9.10 (64-bit) Setup

Setup Progress

Installing:

Python 3.9.10 Test Suite (64-bit)



python
for
windows

Cancel



python
for
windows

Setup was successful

New to Python? Start with the [online tutorial](#) and [documentation](#). At your terminal, type "py" to launch Python, or search for Python in your Start menu.

See [what's new](#) in this release, or find more info about [using Python on Windows](#).



Disable path length limit

Changes your machine configuration to allow programs, including Python, to bypass the 260 character "MAX_PATH" limitation.

Close

Setup was successful

New to Python? Start with the [online tutorial](#) and [documentation](#). At your terminal, type "py" to launch Python, or search for Python in your Start menu.

See [what's new](#) in this release, or find more info about [using Python on Windows](#).



python
for
windows

Close



Python

Microsoft  microsoft.com |  103,182,945 installs |  (565) | Free

IntelliSense (Pylance), Linting, Debugging (multi-threaded, remote), code formatting, refactoring, unit tests, and more.

[Install](#)[Trouble Installing?](#)[Overview](#)[Version History](#)[Q & A](#)[Rating & Review](#)

Python extension for Visual Studio Code

A [Visual Studio Code extension](#) with rich support for the [Python language](#) (for all [actively supported versions](#) of the language: >=3.7), including features such as IntelliSense (Pylance), linting, debugging, code navigation, code formatting, refactoring, variable explorer, test explorer, and more!

Support for [vscode.dev](#)

The Python extension does offer [some support](#) when running on [vscode.dev](#) (which includes [github.dev](#)). This includes partial IntelliSense for open files in the editor.

Installed extensions

The Python extension will automatically install the [Pylance](#) extension to give you the best experience when working with Python files. However, Pylance is an optional dependency, meaning the Python extension will remain fully functional if it fails to be installed. You can also [uninstall it](#) at the expense of some features if you're using a different language server.

Categories

[Programming Languages](#)[Linters](#)[Debuggers](#)[Formatters](#)[Data Science](#)[Machine Learning](#)

Tags

[debuggers](#)[django](#)[ini](#)[jinja](#)[json](#)[keybindings](#)[linters](#)[multi-root ready](#)[pip requirements](#)[pip-requirements](#)[python](#)[requirements.txt](#)[toml](#)[unittest](#)[yaml](#)

Works with

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Python Extension Pack

Don Jayamanne | 6,802,093 installs | ★★★★★ (16) | Free

Popular Visual Studio Code extensions for Python

[Install](#)[Trouble installing?](#)[Overview](#)[Version History](#)[Q & A](#)[Rating & Review](#)

Python Extension Pack

This extension pack packages some of the most popular (and some of my favorite) Python extensions.

Extensions Included

- [Python](#) - Linting, Debugging (multi-threaded, remote), Intellisense, code formatting, refactoring, unit tests, snippets, Data Science (with Jupyter), PySpark and more.
- [Jinja](#) - Jinja template language support for Visual Studio Code.
- [Django](#) - Beautiful syntax and scoped snippets for perfectionists with deadlines.
- [Visual Studio IntelliCode](#) - Provides AI-assisted productivity features for Python developers in Visual Studio Code with insights based on understanding your code combined with machine learning..
- [Python Environment Manager](#) - Provides the ability to view and manage all of your Python environments & packages from a single place.
- [Python Docstring Generator](#) - Quickly insert Python comment blocks with contextually inferred parameters for classes and methods based on multiple, selectable template patterns.
- [Python Indent](#) - Correct python indentation in Visual Studio Code.
- [Jupyter](#) - Provides Jupyter notebook support for Python language, used for data science, scientific computing and machine learning.

Categories

[Extension Packs](#)

Tags

[debugger](#)[django](#)[jinja](#)[python](#)[unittest](#)

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Project Details

[DonJayamanne/python-extension-pack](#)[Last Commit: 2 years ago](#)

[https://github.com/ericdboyd/
vslive-vegas-2024-python-and-ai-day-1](https://github.com/ericdboyd/vslive-vegas-2024-python-and-ai-day-1)