

Python Away From Your Computer

How To Code Your Favorite Language In Any* Situation

** nearly*

About Me

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31 followers 38 repos 190 contributions ★ 164 stars

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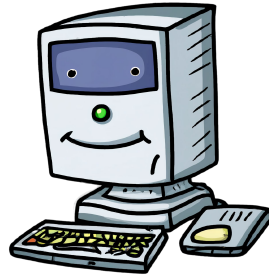
"Lead Data Engineer. Focussed on Big Data, Machine Learning, Distributed and Cloud Computing."

TOP LANGUAGES

Python (9) C# (4) R (4) JavaScript (2) TypeScript (2)

Case #1

Using a Spare Computer

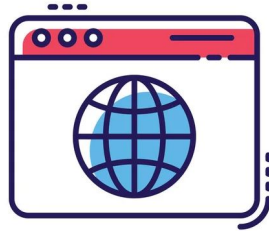




- Access to a computer where things can be installed
- [Install](#) uv
 - `curl -LsSf https://astral.sh/uv/install.sh | sh`
- Run a Python REPL
 - `uv run --isolated --no-cache --python 3.14 python`
 - `uv cache clean` if you feel like a boy scout

Case #2

Using a Web Browser




Virtual Machine for the Web 🕸

- Linux & Python in the browser
- <https://webvm.io/>
- Run a Python REPL
 - `python3`
- You can even run `sudo rm -rf /` in it 😜

PYODIDE

WA

- Python distribution for the browser (port of CPython to WebAssembly)
- REPL: <https://pyodide.org/en/stable/console.html>
- Install **pure** Python libraries:  `install_pip.py`

```
import micropip
await micropip.install('art')
```

```
from art import tprint
tprint('Python Rennes')
```

- Make HTTP **requests**:



`get_my_ip.py`

```
import requests
url = 'https://httpbin.io/ip'
r = requests.get(url)
r.json()
```

Other Browser Based Solutions

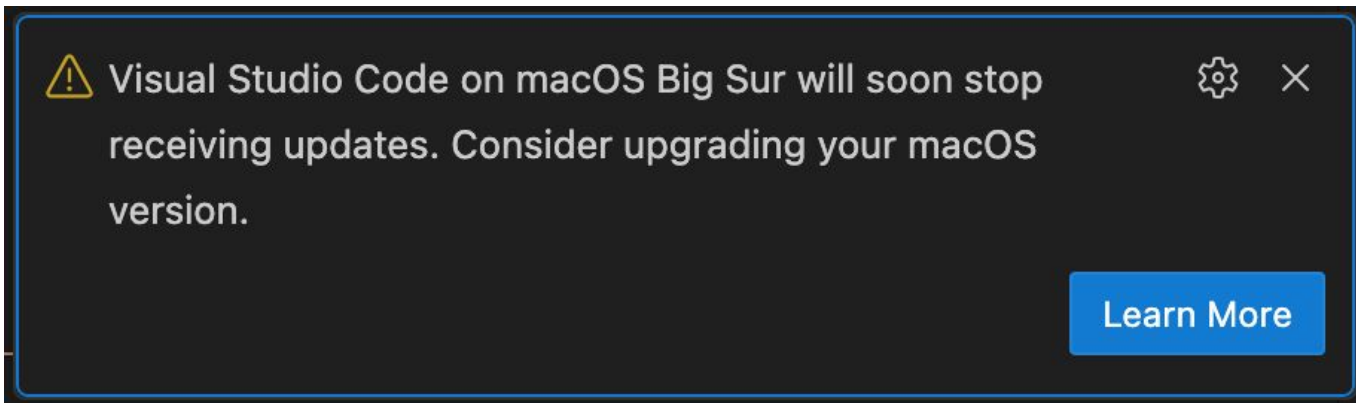
- Python-fiddle
 - Online Python IDE, Compiler, and Interpreter
 - <https://python-fiddle.com/>
- PyTogether
 - Google Docs for Python
 - For education
 - <https://pytogether.org/>



- Python **notebook**
- More sophisticated coding
 - Document ideas
 - Keep your work
 - Build small applications
- <https://marimo.io/>
- Create a new notebook: <https://marimo.new>
- Manage notebooks: <https://marimo.io/dashboard>

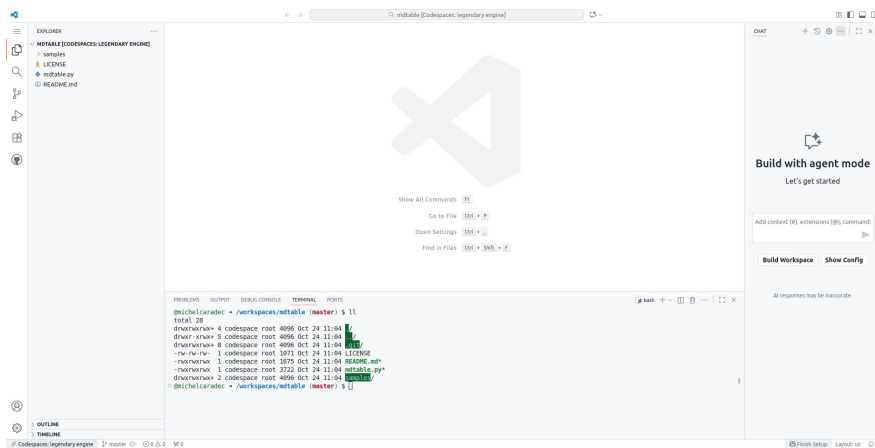
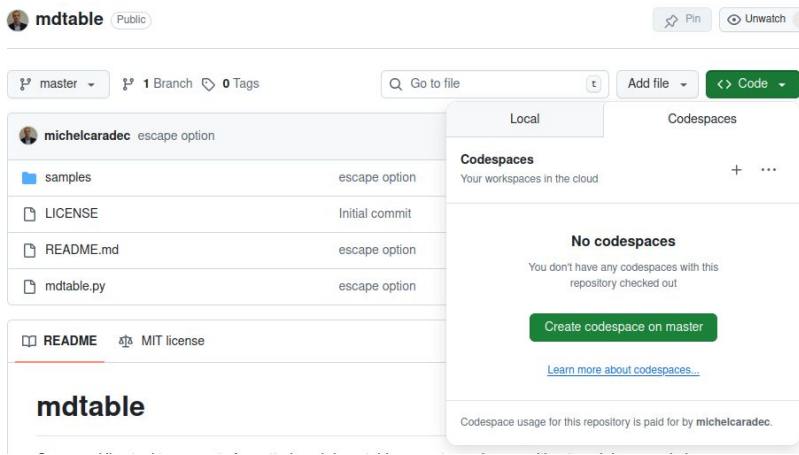


As A VSCode Alternative For Experiments



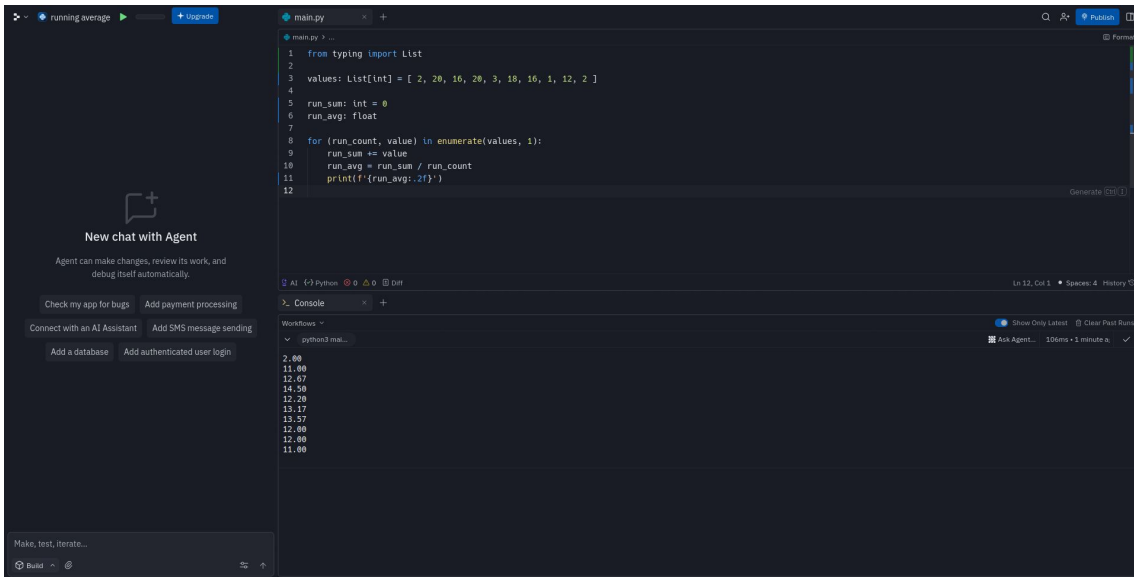
GitHub Codespaces

- Like **DevContainer** & **VSCode**, but in the cloud
- From a GitHub repository
- <https://docs.github.com/en/codespaces>





- No GitHub dependency
- <https://replit.com/>
- Also on [Apple](#) and [Google Play](#) Stores



The screenshot displays the Replit IDE interface. On the left, a sidebar contains a 'New chat with Agent' section with a description: 'Agent can make changes, review its work, and debug itself automatically.' Below this are several buttons: 'Check my app for bugs', 'Add payment processing', 'Connect with an AI Assistant', 'Add SMS message sending', 'Add a database', and 'Add authenticated user login'. At the bottom of the sidebar is a 'Make, test, iterate...' section with a 'Build' button.

The main editor area shows a file named 'main.py' with the following Python code:

```
1 from typing import List
2
3 values: List[int] = [ 2, 20, 16, 20, 3, 18, 16, 1, 12, 2 ]
4
5 run_sum: int = 0
6 run_avg: float
7
8 for (run_count, value) in enumerate(values, 1):
9     run_sum += value
10    run_avg = run_sum / run_count
11    print(f'({run_avg:.2f})')
12
```

Below the code editor is a 'Console' tab showing the output of the script:

```
2.00
11.00
12.67
14.50
12.20
13.17
13.57
12.00
12.00
11.00
```

The console also shows a status bar at the bottom right indicating 'Show Only Latest', 'Clear Past Runs', and 'Ask Agent...' with a timer '100ms + 1 minute' and a checkmark.

Case #3

No Computer 🥹 nor Internet Access 😱





- The Linux shell for iOS
- <https://github.com/ish-app/ish>
- `apk add --no-cache python3 python3-dev`



a-Shell

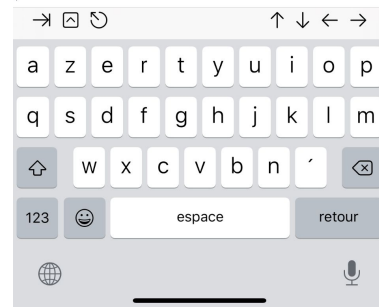


- Terminal in your pocket
- https://holzschu.github.io/a-Shell_iOS/
- Batteries included
 - Python and common libraries pre-installed
 - <https://github.com/holzschu/a-Shell-commands>
- Made by Nicolas Holzschuch in Grenoble 🇫🇷

```
9:57
-rw-r--r--  1 501  staff   0 Oct 15 21:55 newFile
-rw-r--r--  1 501  staff   0 Oct 15 20:30 newFile.c
drwxr-xr-x  2 501  staff  64 Oct 15 21:55 newFolder
-rw-r--r--  1 501  staff  68 Oct 15 21:55 test.py
$ uname
Darwin
$ uname -a
Darwin ache.local 19.0.0 Darwin Kernel Version 19.0.0: Tue Sep 17 01:59:51 PDT 2019; root:xnu-6153.11.24~1/RELEASE_ARM64_T8020
$ date
Tue Oct 15 21:56:57 CEST 2019
$ ping apple.com
PING apple.com (17.142.160.59): 56 data bytes
36 bytes from 17.142.1.35: Communication prohibited
by filter
Vr  Hl  Tos  Len  ID  Flg  off  TTL  Pro  cks      Src
      Dst
  4   5   00  5400  312e   0  0000   28   01 eef6 192.168.0.
19  17.142.160.59

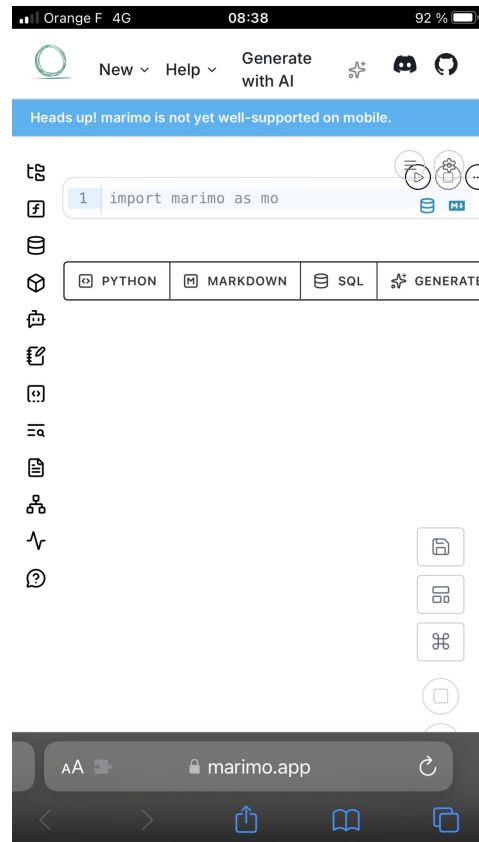
Request timeout for icmp_seq 0
Request timeout for icmp_seq 1
Request timeout for icmp_seq 2
Request timeout for icmp_seq 3

--- apple.com ping statistics ---
5 packets transmitted, 0 packets received, 100.0% pa
cket loss
$
```



What About Marimo On Mobile Browser?

- Not fully supported
- Some glitches
- But it works 😊



*“Coder, c’est comme respirer :
à trop se retenir,
on risque l’asphyxie”*

Happy Coding, Anytime, Anywhere! 🧐

Thank You 🙏