

Python Away From Your Computer

How To Code Your Favorite Language In Any* Situation

** nearly*

About Me

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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



uv 

- 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 😱

- 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')
```



get_my_ip.py

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

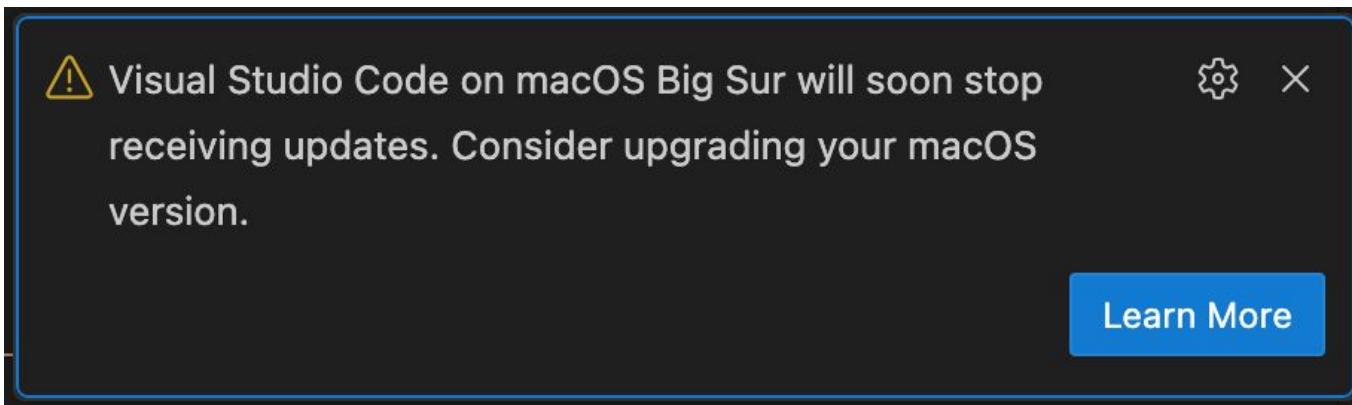
Other Browser Based Solutions

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



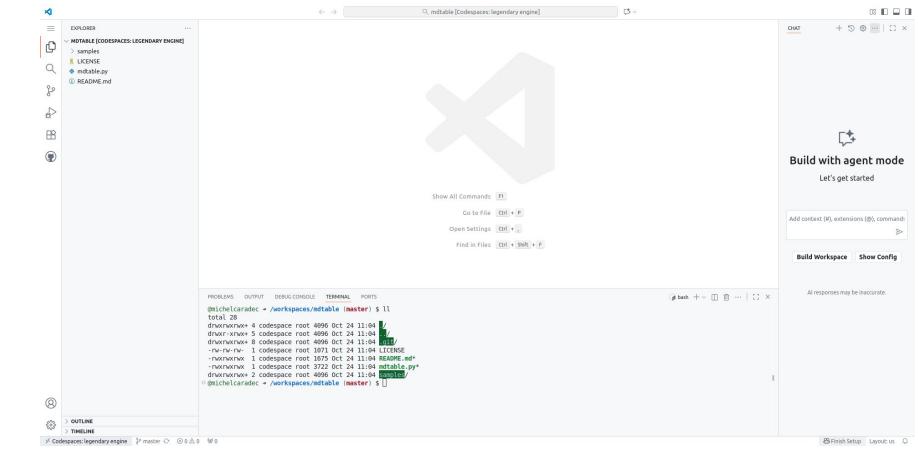
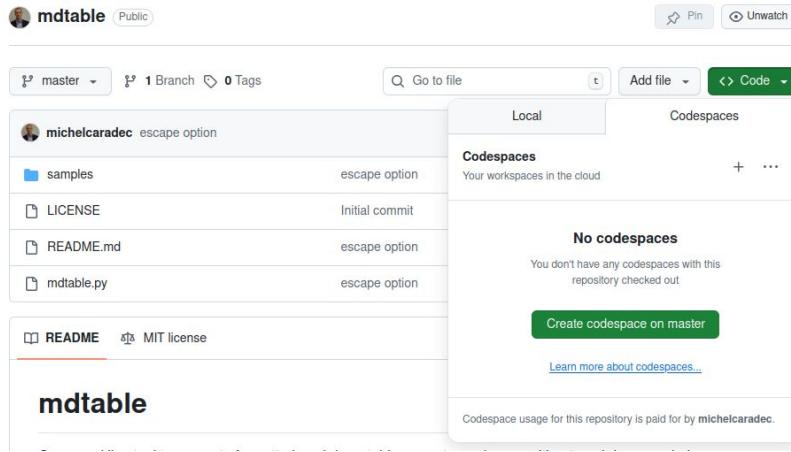
- Python **notebook**
- More sophisticated coding
 - Document ideas
 - Keep your work
 - Build small applications
- <https://marimo.io/>
- Create a new notebook: <https://marimo.new>
- Manage notebooks: <https://marimo.io/dashboard>

O/marimo 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 shows the Replit IDE interface. At the top, there's a navigation bar with tabs for "running average" and "Upgrade". Below the navigation bar is a dark-themed code editor window titled "main.py". The code in "main.py" is:

```
from typing import List
values: List[int] = [2, 20, 16, 28, 3, 18, 16, 1, 12, 2]
run_sum: int = 0
run_avg: float = 0
for (run_count, value) in enumerate(values, 1):
    run_sum += value
    run_avg = run_sum / run_count
print(f'{run_avg:.2f}')
```

Below the code editor is a "New chat with Agent" section with a message input field and a "Send" button. It says: "Agent can make changes, review its work, and debug itself automatically." There are also buttons for "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".

To the right of the code editor is a "Console" window titled "python3 main...". The output in the console is:

```
2.00
11.00
12.07
14.00
12.20
13.17
13.57
12.00
12.00
11.00
```

At the bottom of the interface, there's a footer with the text "Make, test, iterate..." and a "Build" button. On the far right, there are icons for "Format", "Generate", and "History".

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

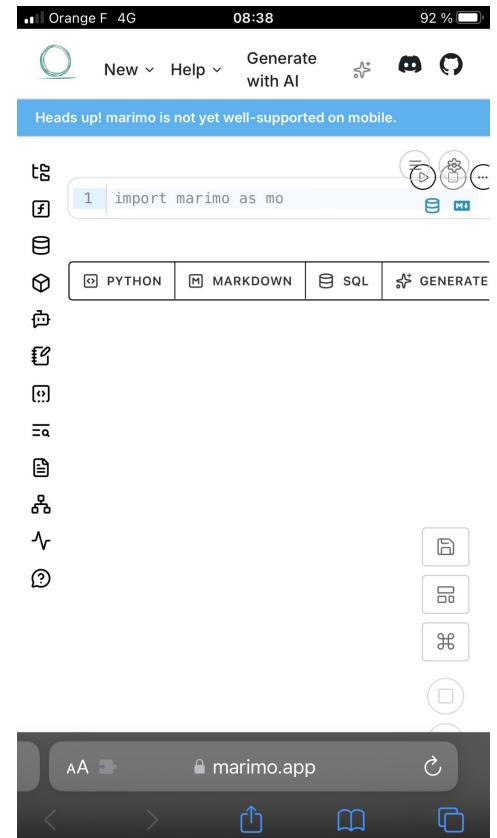


- Terminal in your pocket
- https://holzschu.github.io/a-Shell_iOS/
- Batteries included
 - Python and common libraries pre-installed
 - <https://github.com/holzschu/a-Shell-commands>
- Made by Nicolas Holzschuch in Grenoble 

```
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 -a
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
~17RELEASE_X86_64 x86_64
$ 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% packet loss
$
→ ↵ ⌂ ↑ ↓ ← →
a z e r t y u i o p
q s d f g h j k l m
⇪ w x c v b n ' ⌂
123 ☺ espace retour
🌐
```

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 🙏