

Grab the slides:

[slides.com/cheukting\\_ho/pydata-spaghetti-python](https://slides.com/cheukting_ho/pydata-spaghetti-python)

# Untangle Spaghetti Python Paths

How to manage your Python  
Environments

Cheuk Ting Ho

<https://cheuk.dev>



@cheukting\_ho



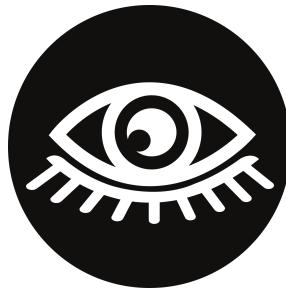
Cheukting



Cheuk Ting Ho

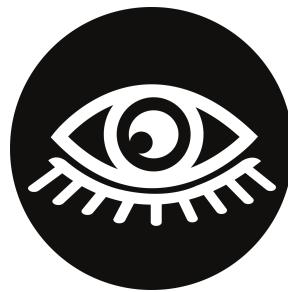


Cheuk Ting Ho





Cheuk Ting Ho



PYTHON  
SPRINTS

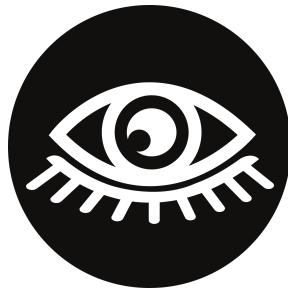


PyData  
Global

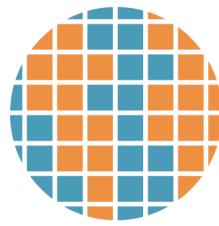




# Cheuk Ting Ho



PYTHON  
SPRINTS



PyData  
Global



[https://www.twitch.tv/cheukting\\_ho](https://www.twitch.tv/cheukting_ho)



# Humble Data

## workshop

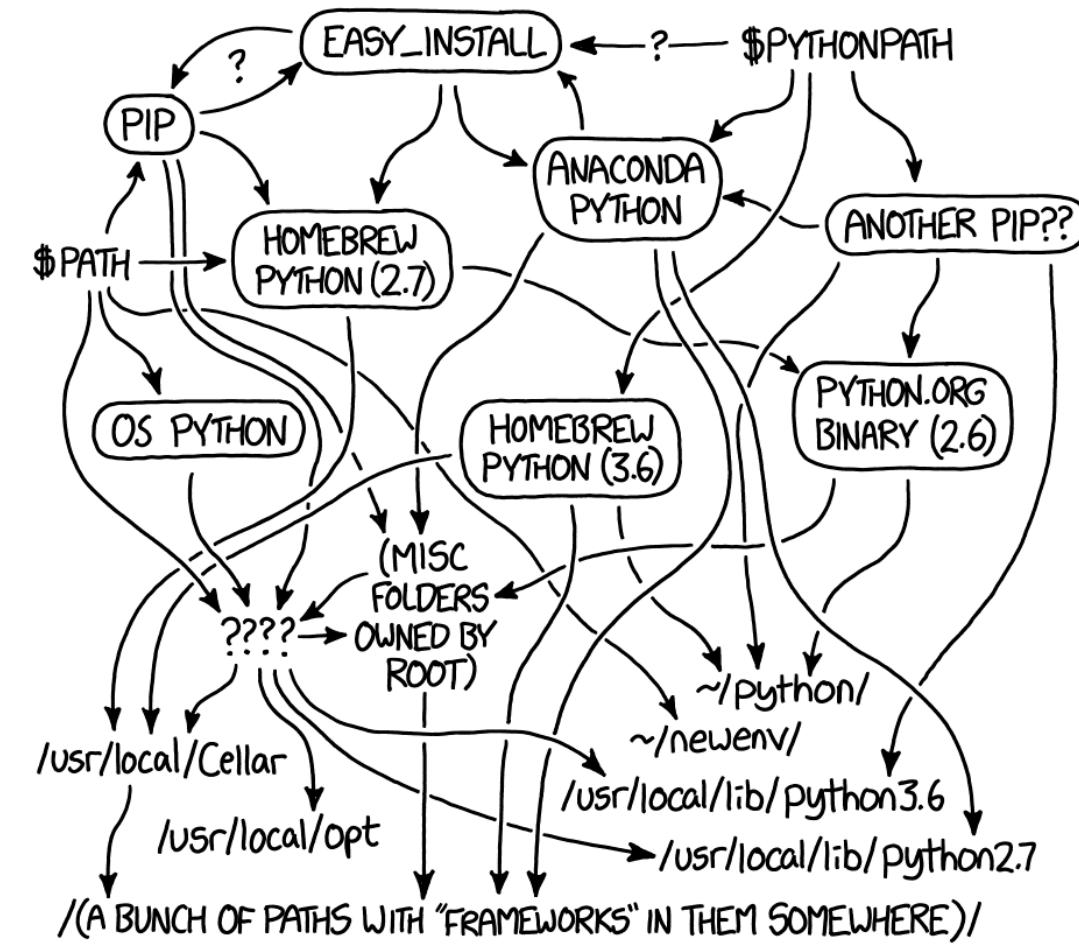


@HumbleData

<https://humbledata.org>

Saturday, 7 November 2020





MY PYTHON ENVIRONMENT HAS BECOME SO DEGRADED  
THAT MY LAPTOP HAS BEEN DECLARED A SUPERFUND SITE.

A close-up photograph of a yellow dog's face, looking slightly to the right with its mouth open. The dog has dark eyes and a pink tongue visible. The background is dark.

# How to find where my Python is installed?

In unix (mac os X included) terminal you can do:

```
1 $ which python
```

For Windows Users, chances are one of these  
(e.g. Python3.6):

- C:\Python36
- C:\Users\Your logged in User\AppData\Local\Programs\Python\Python36

Or in a CMD:

```
1 $ where python
```

```
1 $ cd \
2 $ ls *ython* -Recurse -Directory
```

- <package>.\_\_path\_\_ lets you identify the location(s) of a specific package: ([details](#))

```
1 $ python -c "import setuptools as _; print(_.__path__)"  
2 ['/usr/lib/python2.7/dist-packages/setuptools']
```

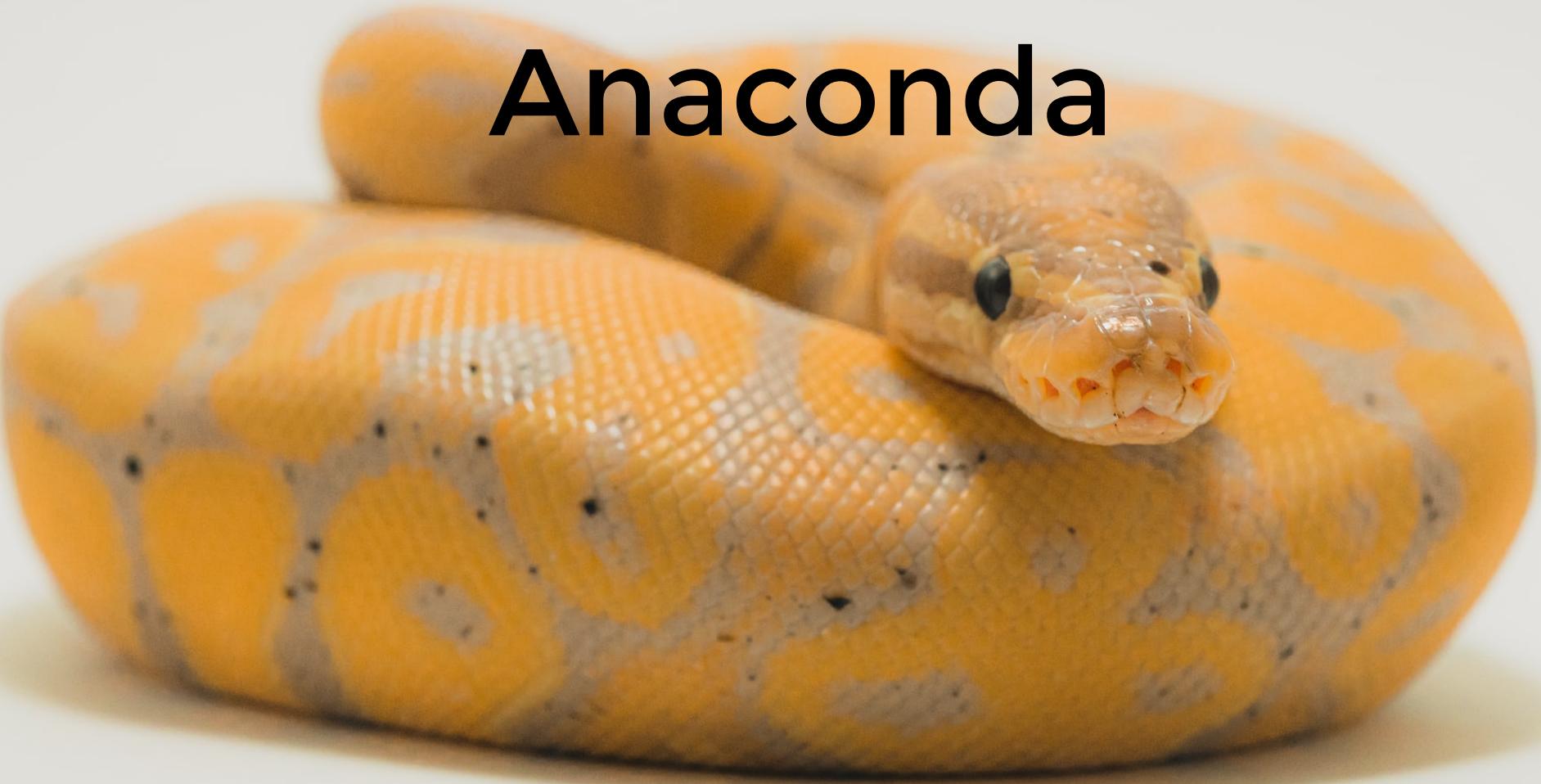
- <module>.\_\_file\_\_ lets you identify the location of a specific module: ([difference](#))

```
1 $ python3 -c "import os as _; print(_.__file__)"  
2 /usr/lib/python3.6/os.py
```

- Run pip show <package> to show package information:

```
1 $ pip show pytest  
2 Name: pytest  
3 Version: 3.8.2  
4 Summary: pytest: simple powerful testing with Python  
5 Home-page: https://docs.pytest.org/en/latest/  
6 Author: Holger Krekel, Bruno Oliveira, Ronny Pfannschmidt, Floris Bruy  
7 Author-email: None  
8 License: MIT license  
9 Location: /home/peter/.local/lib/python3.4/site-packages  
10 Requires: more-itertools, atomicwrites, setuptools, attrs, pathlib2, s
```

**But Wait, I use  
Anaconda**



**“Anaconda** is a [free and open-source\[5\]](#) distribution of the [Python](#) and [R](#) programming languages for [scientific computing](#)

- Wikipedia

It also provide a package manager: [Conda](#)

Which you can manage your Python  
enviroment

Create:

```
1 conda create --name myenv
```

Activate:

```
1 conda activate myenv
```

Deactivate:

```
1 conda deactivate
```

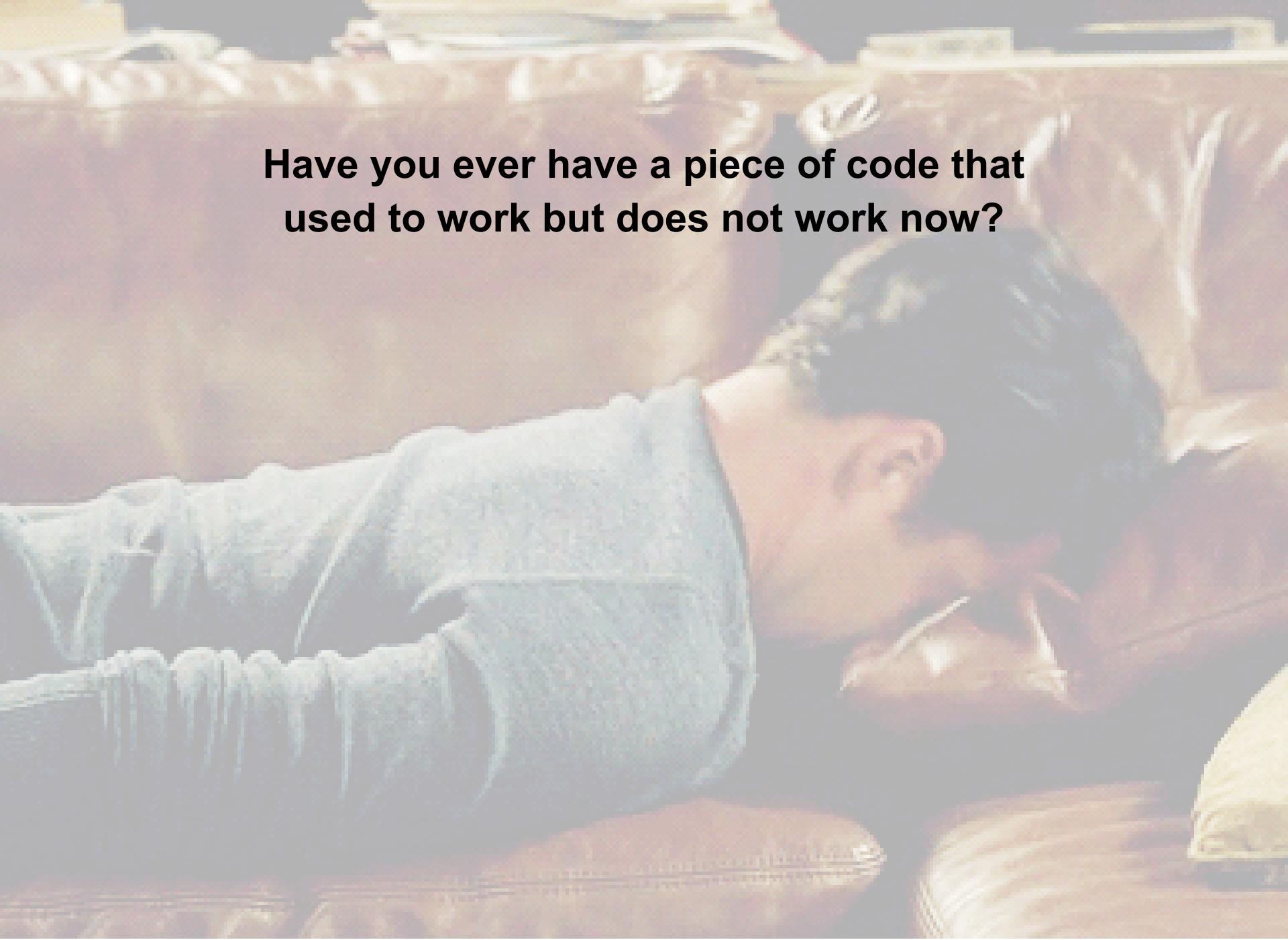
Other tools that you can use to managing  
your Python environments:

pyenv-virtualenv, [venv](#), pipenv, poetry

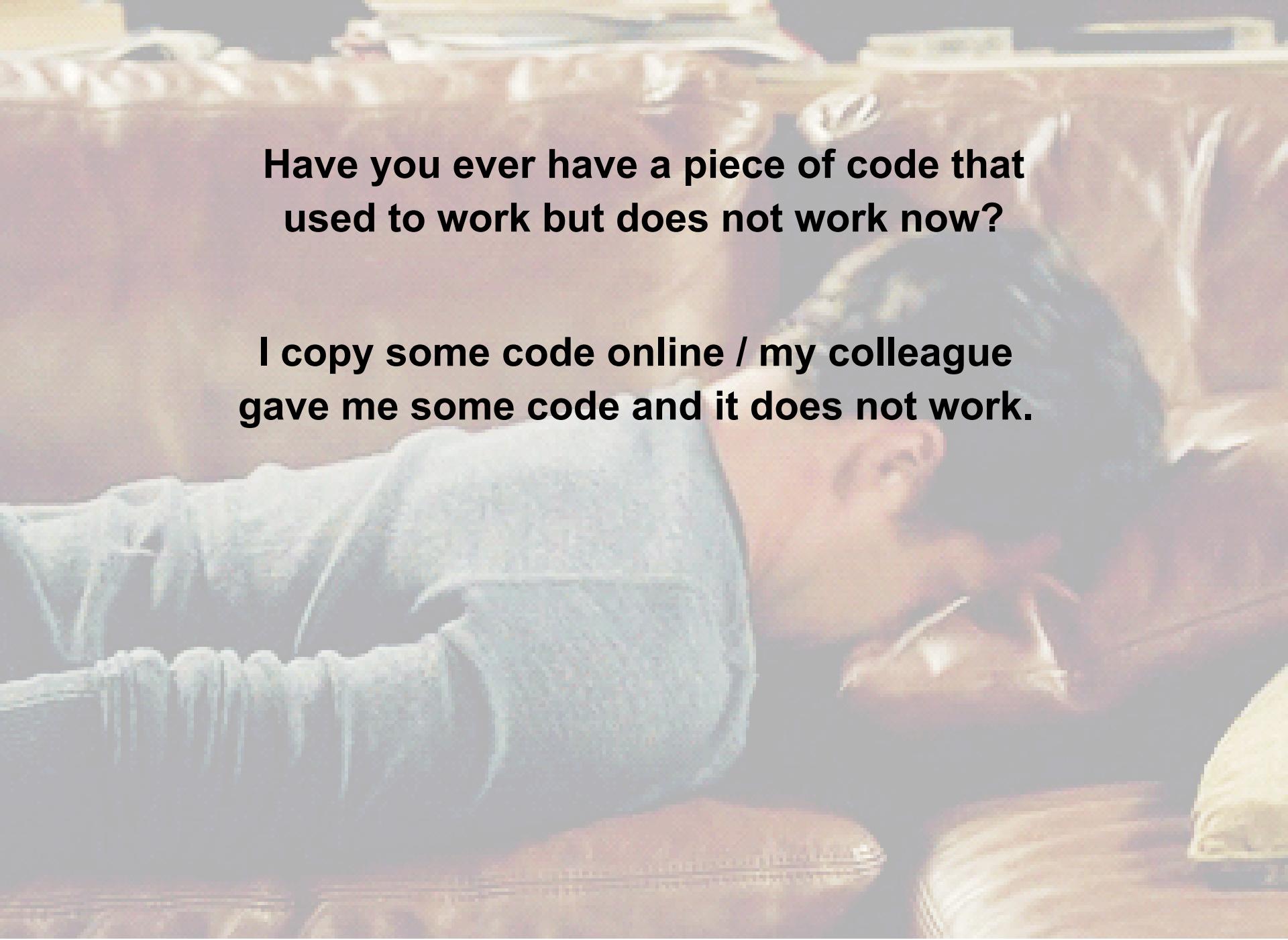
Other tools that you can use to managing  
your Python environments:

`pyenv`-`virtualenv`, [venv](#), `pipenv`, `poetry`



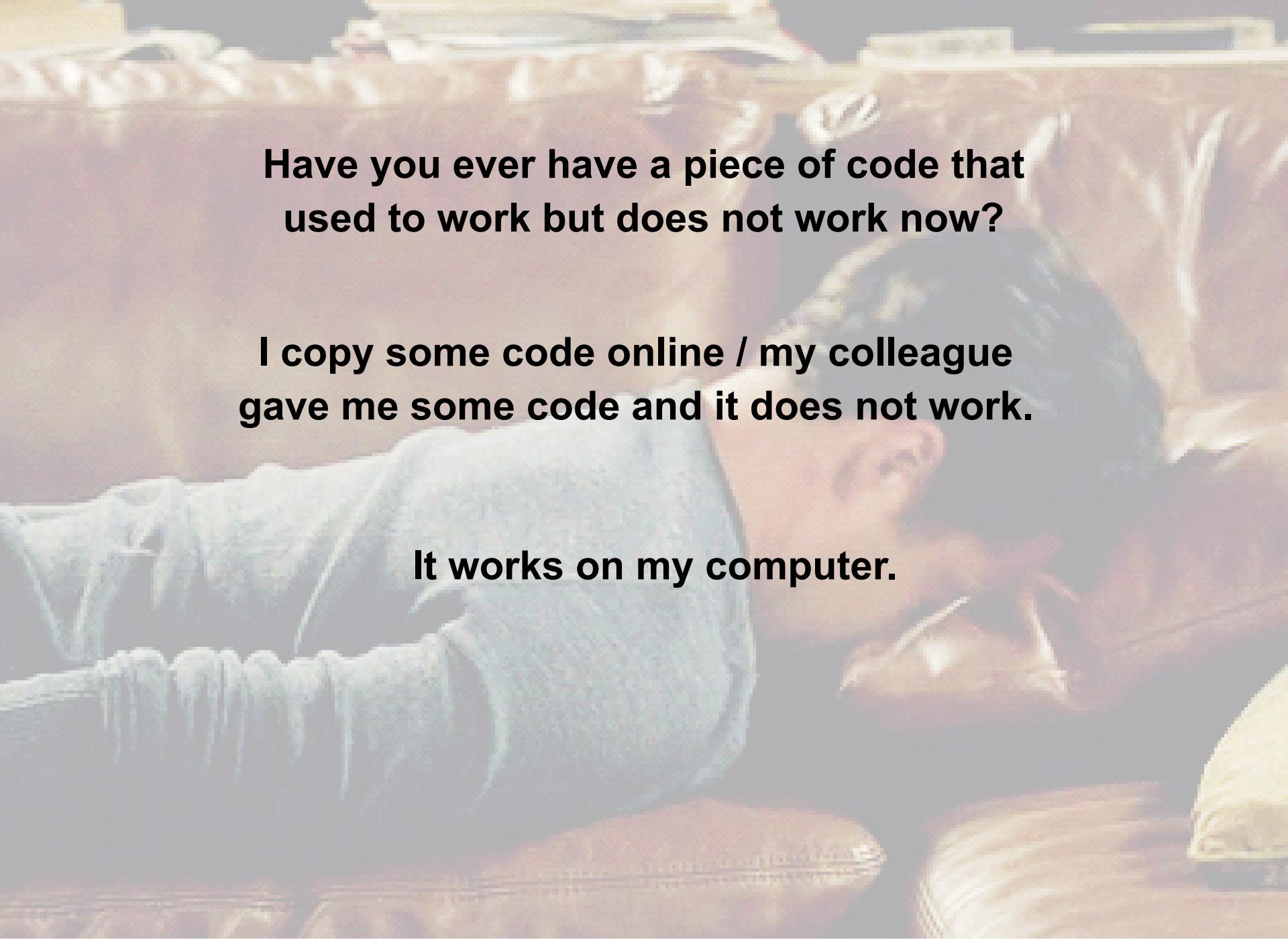
A photograph of a man with dark hair and a beard, wearing a grey hoodie. He is looking down at a laptop screen, which is visible in the lower right corner of the frame. The background is blurred, showing what appears to be an office or study environment.

**Have you ever have a piece of code that  
used to work but does not work now?**

A man in a grey suit jacket and white shirt is looking down at his smartphone with a worried expression. His hands are clasped around the phone. The background is blurred, showing what appears to be an office or public space.

**Have you ever have a piece of code that  
used to work but does not work now?**

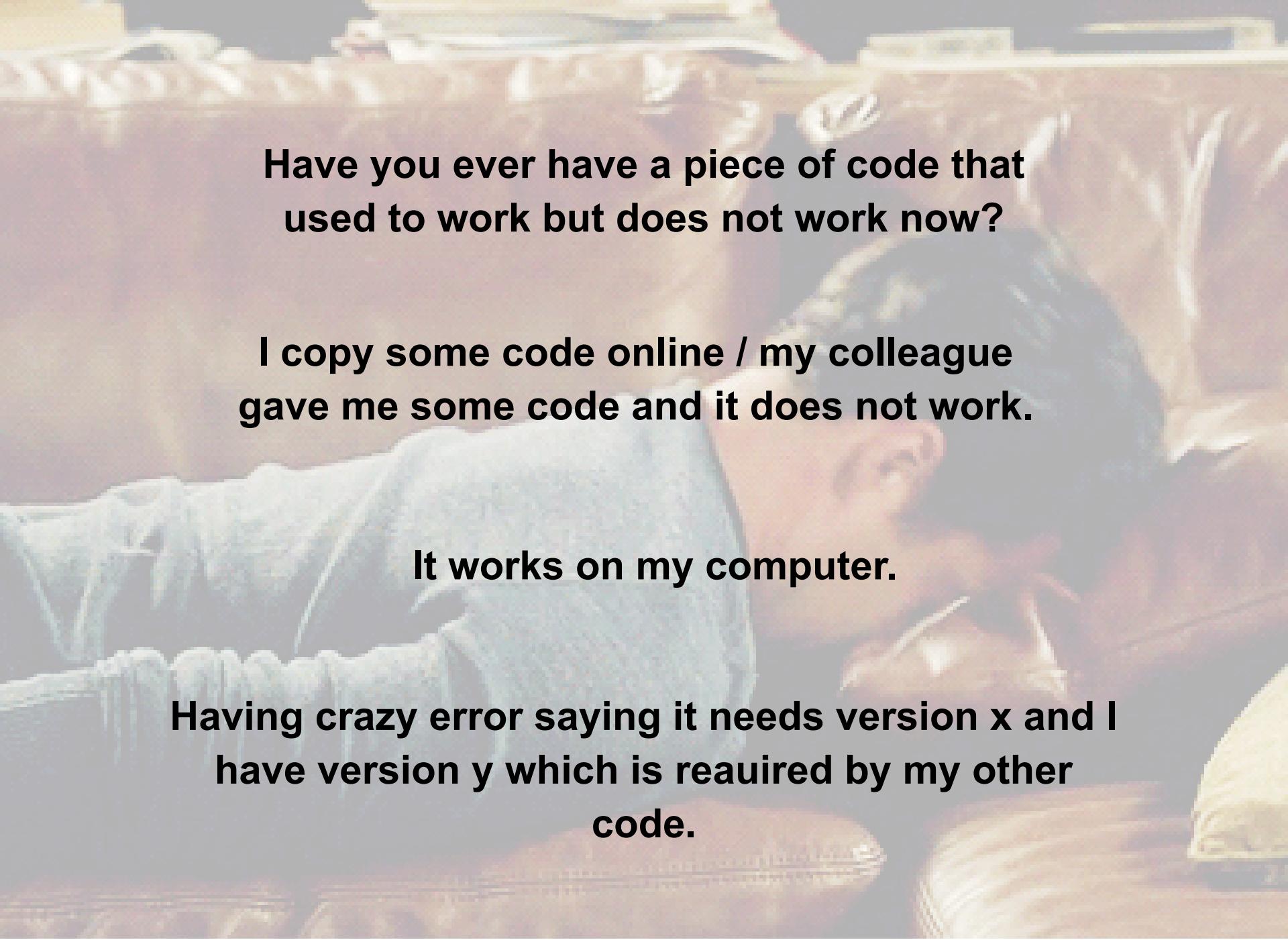
**I copy some code online / my colleague  
gave me some code and it does not work.**

A close-up photograph of a person's hands wearing a white surgical mask and blue nitrile gloves. The person is holding a black computer mouse with their right hand and a black keyboard with their left hand. The background is blurred.

**Have you ever have a piece of code that  
used to work but does not work now?**

**I copy some code online / my colleague  
gave me some code and it does not work.**

**It works on my computer.**

A photograph of a person's hands wearing a white surgical mask and blue nitrile gloves. They are resting their chin on their hand and looking down at a dark-colored computer keyboard. The background is slightly blurred.

**Have you ever have a piece of code that  
used to work but does not work now?**

**I copy some code online / my colleague  
gave me some code and it does not work.**

**It works on my computer.**

**Having crazy error saying it needs version x and I  
have version y which is required by my other  
code.**

# Let's give it a try:

## Create an enviroment:

```
1 conda create --name myenv
```

```
1 On macOS and Linux:  
2 python3 -m venv env  
3  
4 On Windows:  
5 py -m venv env
```

## Activate your enviroment:

```
1 conda activate myenv
```

```
1 On macOS and Linux:  
2 source env/bin/activate  
3  
4 On Windows:  
5 .\env\Scripts\activate
```

## Go to Python terimal:

```
1 python
```

## See if you can import Pandas:

```
1 >>> import pandas as pd
```

Let's give it a try (con't):

Exit Python:

```
1 >>> exit()
```

Install pandas:

```
1 pip install pandas
```

See if you can import Pandas again (repead  
the steps and exit Python when done)

install TerminusDB Python Client (I bet you don't have it originally)

```
1 pip install terminusdb-client
```

See if you can import it

```
1 >>> import terminusdb_client
```

Let's give it a try (con't):

Deactivate your environment:

```
1 conda deactivate
```

```
1 deactivate
```

Try to see if you can import terminusdb\_client again

Let's give it a try (con't):

Deactivate your environment:

```
1 conda deactivate
```

```
1 deactivate
```

Try to see if you can import terminusdb\_client again

