**PATH:** the list of places that your computer searches to find stuff

Environment variables – setting up the computer - like $PATH/PATH

which: command

-a: flag or option

**Backticks `:** are to wrap around technical stuff like code or command line commands

**逐一打开电脑上的文件：**

wangyushuo@wangyushuodeMBP ~ % **cd Desktop**

wangyushuo@wangyushuodeMBP Desktop % cd 1Columbia

wangyushuo@wangyushuodeMBP 1Columbia % cd "Data Journalism"

wangyushuo@wangyushuodeMBP Data Journalism % cd Foundations

wangyushuo@wangyushuodeMBP Foundations % cd python-test

wangyushuo@wangyushuodeMBP python-test % ls

hello.py

**跑Visual Studio Code里的代码：**

hello.py

wangyushuo@wangyushuodeMBP python-test % python hello.py

Hello world

按上下键可直接定位terminal已经写过的码，按tab可自动填充长的文件名

**下载网站数据：**

[**https://flother.github.io/htmltab/**](https://flother.github.io/htmltab/)[**https://flother.github.io/htmltab/usage/**](https://flother.github.io/htmltab/usage/)

**Search for Text:** [**grep commandLinks**](https://www.thegeekstuff.com/2009/03/15-practical-unix-grep-command-examples/)**is used to search for text in plain text files.**

相关作业：

<https://docs.google.com/document/d/1Ai6ZFHTPQXLFOLQARxv8nqS4AHuJtstsFdvrK0IkzHI/edit?tab=t.0>

**下载网站Video:** 根据<https://github.com/yt-dlp/yt-dlp/wiki/Installation>

python3 -m yt\_dlp "https://www.youtube.com/watch?v=MdMnPrUxm1w"

控制下载速度：

python3 -m yt\_dlp **-r 1M** <https://www.youtube.com/watch?v=MdMnPrUxm1w>

**API (application programming interface):** a website with stuff formatted for a computer

Basic form: <https://pokeapi.co/api/v2/pokemon/>

However, most APIs are paginated, which means you get … pages of content:

<http://twitter.com/api/v2/tweets> does not give you all tweets ever

<https://pokeapi.co/api/v2/pokemon?limit=50>: Returns the first 50 Pokémon.

<https://pokeapi.co/api/v2/pokemon?offset=20&limit=20>: Skips the first 20 Pokémon and retrieves the next 20.

**Endpoint:** a specific URL or a fill-in-the-blanks URL with data formatted for a computer

**JSON:** javascript option notation; APIs don’t usually give us CSV files: the data format is JSON

**Get a File from the Internet: requests**

A screenshot of a computer

Description automatically generated

**Play Audio:**

**A screen shot of a computer

Description automatically generated**

**Homework 02, Part 1: Python**

**List:**

**A screenshot of a computer code

Description automatically generated**

7. How many times there has been a president from the Democratic Party in office since they were born (1980 onward, and each president only counts once)

A screenshot of a computer

Description automatically generated

**While loop vs For loop:**

**- for loop:** use when the number of **iterations is predetermined** (e.g., iterating over a **list** or range).

A number equation on a white background

Description automatically generated

**- while loop:** use when waiting for a condition to be met, such as taking user input until valid input is received, and the exact number of iterations isn’t fixed.

10. If someone says they were born in the future, ask them for their year of birth again. Assume they’ll do it right the second time.

A close-up of a message

Description automatically generated

== are they equal?

= they are equal