





Tips and Tricks

Those slides will be available on Arche





Always look at the error message

```
File "C:\Users\shine\Documents\nancy\temp4.py", line 2
print(f"{msg} (from {speaker}))
^
SyntaxError: EOL while scanning string literal
```





Always look at the error message

```
def say(msg, speaker):
    print(f"{msg} (from {speaker}))

say("hello")

File "C:\Users\shine\Documents\nancy\temp4.py", line 2
    print(f"{msg} (from {speaker}))

SyntaxError: EOL while scanning string literal
```





Always look at the error message The line with the error def say(msg, speaker): print(f"{msg} (from {speaker}) say("hello") The error File "C:\Users\shine\Documents\nancy\temp4.py", line 2 type print(f"{msg} (from {speaker})) SyntaxError: EOL while scanning string literal Google it if you are stuck!





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Google it if you are stuck!

Every programmer uses search engines





The Holy Grail 😇

Always look at the error message! Useful websites for programmers:

- https://stackoverflow.com/questions/tagged/python+python-3.x
- https://www.google.com/

https://www.w3schools.com/python/default.asp

Better than the other engines

(duckduckgo is the second best)



Very nice website. Convenient verify some notions very quickly.





Naming a File

Game files should be as a python (.py) file.

- Easier to run and test
- Can easily add metadata and versions

To name a file:

- Follow variable conventions: (starts with a lowercase, no space, etc.)
- For you game: firstname_lastname_rpg_2.0.1.py





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gael_guibon_rpg_2.0.1.py



4.2.1
MAJOR Minor patch





Useful Common Shortcuts

- Toggle comment for selected line(s): CTRL + /
- Explicitly ask autocompletion/syntax help: CTRL + space
- Indent multiple lines to the right: TAB
- Indent multiple lines to the left: SHIFT + TAB
- Run current cell (in ipynb and colab): CTRL + ENTER
- Automatic word-wrap: ALT + Z





File System





Open a Terminal

Windows key ; "terminal" ; Enter key

CMD + Space ; "terminal" ; Enter key

CTRL + ALT + T

```
Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. Tous droits réservés.
Testez le nouveau système multiplateforme PowerShell https://aka.ms/pscore6
PS C:\Users\shine>
```





Change Directory to Documents

Commands

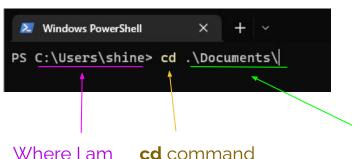
cd: change directory

ls : list elements in the current dir

mkdir: make (create) directory

touch: create a new file

Type "cd Documents"



Where I want to go, destination





Change Directory to Documents

Commands

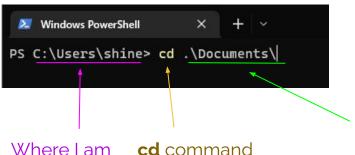
cd: change directory

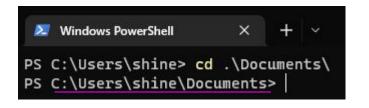
ls : list elements in the current dir

mkdir: make (create) directory

touch : create a new file

- Type "cd Documents"
- 2. Tap Enter key







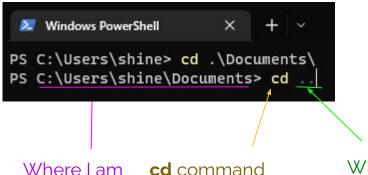


Going back to Parent Folder/Directory

Commands

cd: change directory

Type "**cd** .."



Where I want to go, destination





Going back to Parent Folder/Directory

Commands

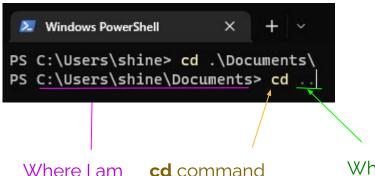
cd: change directory

ls : list elements in the current dir

mkdir: make (create) directory

touch: create a new file

- Type "cd .."
- 2. Tap Enter key



```
Windows PowerShell X + V

PS C:\Users\shine> cd .\Documents\
PS C:\Users\shine\Documents> cd ..

PS C:\Users\shine>
```

Where I want to go, destination





Create a new Folder/Directory

Commands

cd: change directory

ls : list elements in the current dir

mkdir: make (create) directory

touch : create a new file

- Type "mkdir mydir"
- 2. Tap Enter key





Create a new Folder/Directory

Commands

cd: change directory

Type "cd mydir"

Tap Enter key

PS C:\Users\shine\Documents\nancy> cd mydir

PS C:\Users\shine\Documents\nancy\mydir>





List elements in current Folder/Directory

Commands

cd: change directory

ls: list elements in the current dir

mkdir: make (create) directory

touch : create a new file

```
ı.    Type "cd mydir"
```

- Tap Enter key
- 3. Type "**ls**"
- 4. Tap Enter key

```
PS C:\Users\shine\Documents\nancy> cd mydir
PS C:\Users\shine\Documents\nancy\mydir> ls
PS C:\Users\shine\Documents\nancy\mydir>
```

The current directory is empty





Create a new file

Commands

cd : change directory

ls : list elements in the current dir

mkdir: make (create) directory

touch: create a new file

PS C:\Users\shine\Documents\nancy> cd mydir
PS C:\Users\shine\Documents\nancy\mydir> ls
PS C:\Users\shine\Documents\nancy\mydir> touch superprog.py

touch command

UNIX operating systems

- Type "touch superprog.py"
- 2. Tap Enter key

File to create





Create a new file

Commands

cd : change directory

ls : list elements in the current dir

mkdir: make (create) directory

echo: display something (> put it in a file)



- Type "echo > superprog.py"
- 2. Tap Enter key
- 3. Tap Enter key again

```
PS C:\Users\shine\Documents\nancy\mydir> ls
PS C:\Users\shine\Documents\nancy\mydir> echo > superprog.py

applet de commande Write-Output à la position 1 du pipeline de la commande
Fournissez des valeurs pour les paramètres
InputObject[0]:
PS C:\Users\shine\Documents\nancy\mydir>

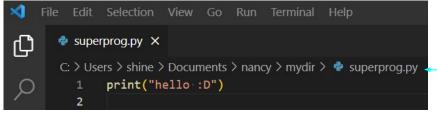
echo command
```

with > target





Execute your Python file



Path of the current file

Run a python file

- Type "(py|python3|python) superprog.py"
- 2. Tap Enter key



File to run with python





Your computer is your friend







Don't depend on mouse and trackpad

You need to know your shortcuts!

You WANT to look like this guy 😉







How to be more efficient?

With your computer:

- ALT + TAB : switch between windows / apps
 - CMD + TAB
- WINDOWS + TAB : overviews of your opened windows
- WINDOWS + a few letters : quickly access to an application
 - CMD + SPACE + a few letters





How to be more efficient?

With your browser:

- CTRL + L : address bar
- CTRL + R : reload the page
- CTRL + SHIFT + R : reload the page and the cache
- CTRL + U : see page source code
- **CTRL + SHIFT + I**: developer mode
- CTRL + T : open a new tab
- CTRL W : close the current tab
- **CTRL + TAB**: switch between tabs





How to be more efficient?

With Visual Studio Code (and with many softwares):

- **CTRL + S**: save
- CTRL + Z : cancel/go back to previous action
- CTRL + C : copy
- CTRL + V : paste
- CTRL + X : cut
- CTRL + A : select all
- **CTRL + TAB**: switch between tabs
- CTRL + F : search pattern
- CTRL + H : search and replace in the page





Training!

- Try to use your computer without mouse / trackpad for 1 hour
 - Do it regularly









Use your file system

 Don't put everything in the desktop. Try to avoid putting anything in it.

Nom	^	Date de modification	Taille	Туре
✓ ■ generation1		aujourd'hui à 15:00		Dossier
bulbizarre.txt		aujourd'hui à 15:00	Zéro octet	Format texte
carapuce.txt		aujourd'hui à 15:00	Zéro octet	Format text
pikachu.txt		aujourd'hui à 15:00	Zéro octet	Format texte
salameche.txt		aujourd'hui à 15:00	Zéro octet	Format texte
✓ ■ generation2		aujourd'hui à 15:02		Dossier
germignon.txt		aujourd'hui à 15:01	Zéro octet	Format text
hericendre.txt		aujourd'hui à 15:01	Zéro octet	Format text
kaiminus.txt		aujourd'hui à 15:02	Zéro octet	Format text
✓ ■ generation3		aujourd'hui à 15:03		Dossier
🔜 arcko.txt		aujourd'hui à 15:02	Zéro octet	Format texte
gobou.txt		aujourd'hui à 15:03	Zéro octet	Format text
poussifeu.txt		aujourd'hui à 15:02	Zéro octet	Format text





gaelguibon@hs-idm-r-01 pokemons % tree

Use your file system

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it.

