

Big Data

Open Data

MMI 2 – TP#4 S4

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Python

- Langage haut-niveau
 - Syntaxe relativement simple à utiliser
- Très polyvalent
 - Logiciel, système d'exploitation, sites...
- Utilisé en data-science (beaucoup même)

Python – Installation d'Anaconda

- Version "simplifiée" de Python
- Très populaire en science des données
- Gère aussi R et Julia

Source(s) :

- <https://www.anaconda.com/products/individual>

Installons Anaconda (et Python)

(Il est aussi possible d'utiliser Google Colab)

Source(s) :

- <https://www.anaconda.com/products/individual>

Google colab

- Version en ligne et gratuite de Jupyter
 - Jupyter est un outil d'Anaconda
- Nécessite un compte google
- Les notebooks sont sauvegardés dans Google Cloud

Source(s) :

- <https://colab.research.google.com/>

anaconda.com/products/individual

Individual Edition

Your data science toolkit

With over 20 million users worldwide, the open-source Individual Edition (Distribution) is the easiest way to get started with Python/R data science and machine learning on your machine. Developed for solo practitioners, it is tailored to equip you to work with thousands of open-source packages and libraries.

[Download](#)

Anaconda Installers

Windows 	MacOS 	Linux 
Python 3.8 64-Bit Graphical Installer (457 MB) 32-Bit Graphical Installer (403 MB)	Python 3.8 64-Bit Graphical Installer (435 MB) 64-Bit Command Line Installer (428 MB)	Python 3.8 64-Bit (x86) Installer (529 MB) 64-Bit (Power8 and Power9) Installer (279 MB)

Source(s) :

- <https://www.anaconda.com/products/individual>

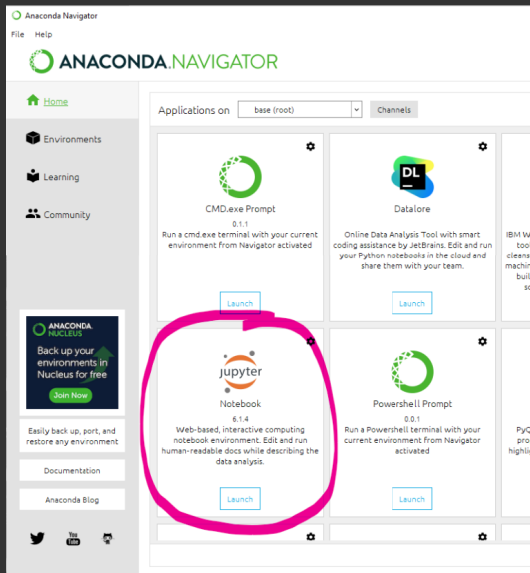
Pratiquons ! - Testons Anaconda

Pré-requis :

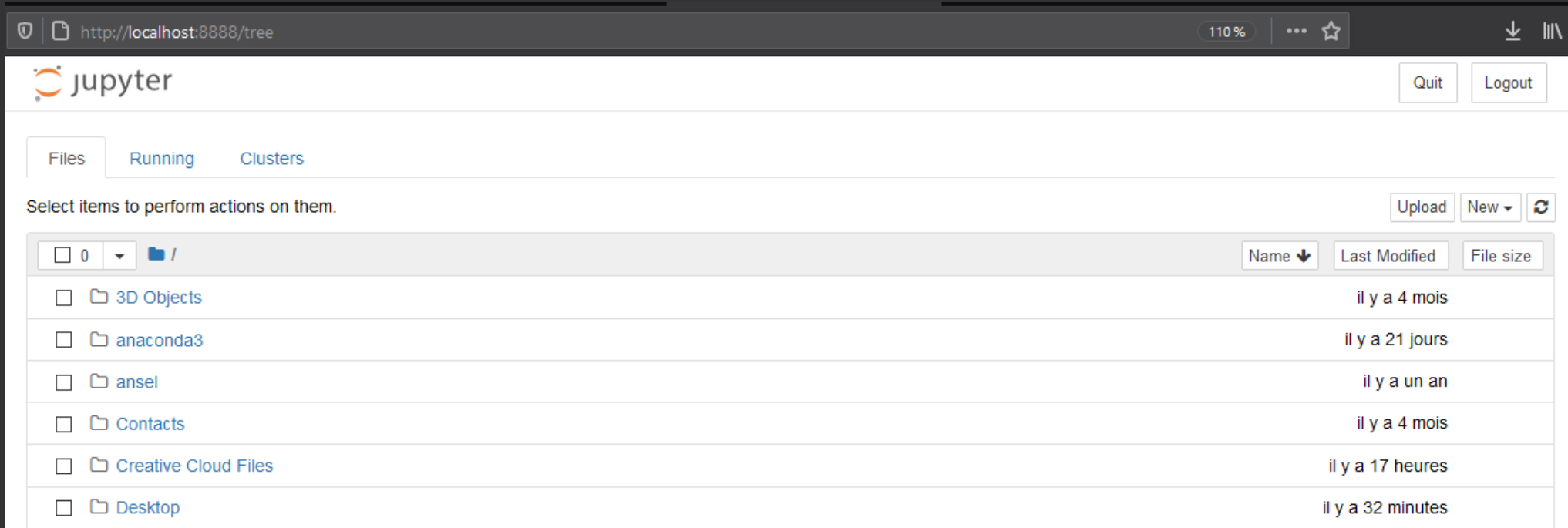
- Avoir installé Anaconda Navigator ou utiliser Google Colab

Consignes :

- Lancer le logiciel "Anaconda Navigator"
- Sélectionner "jupyter notebook" parmi les propositions



Pratiquons ! - Testons Anaconda



The screenshot shows the JupyterLab web interface in a browser. The address bar displays `http://localhost:8888/tree`. The Jupyter logo is in the top left, and 'Quit' and 'Logout' buttons are in the top right. Below the logo are tabs for 'Files', 'Running', and 'Clusters'. A message says 'Select items to perform actions on them.' To the right are 'Upload', 'New', and a refresh icon. The main area shows a file tree for the root directory '/'. It includes a search bar with '0' results and a table of folders with columns for Name, Last Modified, and File size.

	Name	Last Modified	File size
<input type="checkbox"/>	3D Objects	il y a 4 mois	
<input type="checkbox"/>	anaconda3	il y a 21 jours	
<input type="checkbox"/>	ansel	il y a un an	
<input type="checkbox"/>	Contacts	il y a 4 mois	
<input type="checkbox"/>	Creative Cloud Files	il y a 17 heures	
<input type="checkbox"/>	Desktop	il y a 32 minutes	

Après avoir cliqué sur "jupyter notebook", vous devriez avoir ceci dans votre navigateur

Pratiquons ! - Testons Anaconda

Pré-requis :

- Avoir installé Anaconda Navigator ou utiliser Google Colab
- Avoir la ressource introduction.ipynb

<https://downgit.github.io/#!/home?url=https://github.com/DanYellow/cours/tree/main/big-data-s4/travaux-pratiques/numero-4/ressources>

Consignes :

- Suivre les consignes contenues dans le notebook

Questions ?

