

TP 0

Procédure d'installation Jupyter Notebook

Installer Anaconda

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



The screenshot displays the 'Anaconda Installers' page with three columns for different operating systems. Each column lists available installers for Python 3.8, including graphical and command-line versions with their respective sizes.

Operating System	Python Version	Installer Type	Size
Windows	Python 3.8	64-Bit Graphical Installer	477 MB
		32-Bit Graphical Installer	409 MB
MacOS	Python 3.8	64-Bit Graphical Installer	440 MB
		64-Bit Command Line Installer	433 MB
Linux	Python 3.8	64-Bit (x86) Installer	544 MB
		64-Bit (Power8 and Power9) Installer	285 MB
		64-Bit (AWS Graviton2 / ARM64) Installer	413 M
		64-bit (Linux on IBM Z & LinuxONE) Installer	292 M

Procédure de connexion aux laboratoires informatiques

https://moodle.polymtl.ca/pluginfile.php/793091/mod_resource/content/1/Procedure-etudiant.pdf

Page d'accueil

The screenshot shows the Anaconda Navigator interface. At the top left, the Anaconda Navigator logo and menu (File, Help) are visible. Below the logo, there are navigation options: Home, Environments, Learning, and Community. A dropdown menu shows 'Applications on base (root)' with a 'Channels' button next to it. The main area displays a grid of application cards, each with an icon, name, version, description, and a 'Launch' or 'Install' button. The 'Jupyter Notebook' card is highlighted with a yellow border. A red arrow points from the text 'Environnement virtuel activé' to the 'base (root)' dropdown. A yellow arrow points from the text 'Application Jupyter notebook' to the 'Launch' button of the Jupyter Notebook card.

Applications on **base (root)** Channels

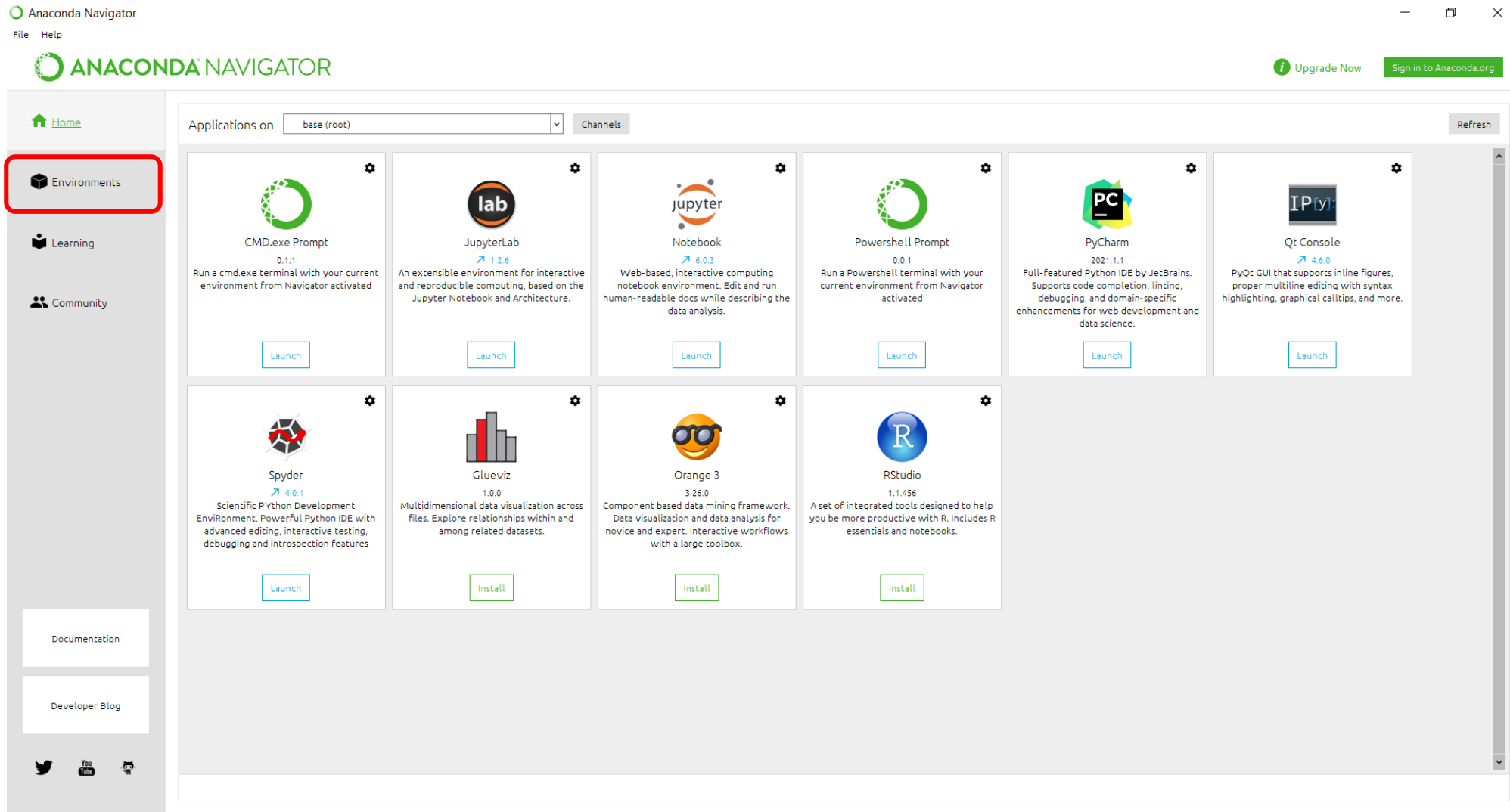
Environnement virtuel activé

Application Jupyter notebook

Application	Version	Action
CMD.exe Prompt	0.1.1	Launch
JupyterLab	1.2.6	Launch
Jupyter Notebook	6.0.3	Launch
Powershell Prompt	0.0.1	Launch
PyCharm	2021.1.1	Launch
Qt Console	4.6.0	Launch
Spyder	4.0.1	Launch
Glueviz	1.0.0	Install
Orange 3	3.26.0	Install
RStudio	1.1.456	Install

Importer environnement virtuel

Cliquer sur l'onglet *Environments*



Importer environnement virtuel

Onglet *Environments*

The screenshot shows the Anaconda Navigator interface. The top bar includes the Anaconda Navigator logo, a menu (File, Help), and buttons for 'Upgrade Now' and 'Sign in to Anaconda.org'. The left sidebar contains navigation options: Home, Environments (selected), Learning, and Community. Below the sidebar are links for 'Documentation' and 'Developer Blog', and social media icons for Twitter, YouTube, and GitHub. The main area is titled 'base (root)' and contains a search bar for environments. Below this is a table of installed packages with columns for Name, Description, and Version. The table lists 31 packages, including _ipyw_jlab_nb_ex..., _r-mutex, alabaster, anaconda, anaconda-client, anaconda-project, asn1crypto, astroid, astropy, atomicwrites, attrs, babel, backcall, backports, backports.os, and backports.shutil_g... At the bottom of the table, it indicates '312 packages available'. At the bottom left of the main area are buttons for 'Create', 'Clone', 'Import', and 'Remove'.

Name	Description	Version
✓ _ipyw_jlab_nb_ex...	A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
✓ _r-mutex		1.0.0
✓ alabaster	Configurable, python 2+3 compatible sphinx theme.	0.7.12
✓ anaconda	Simplifies package management and deployment of anaconda	custom
✓ anaconda-client	Anaconda.org command line client library	1.7.2
✓ anaconda-project	Tool for encapsulating, running, and reproducing data science projects	0.8.2
✓ asn1crypto	Python asn.1 library with a focus on performance and a pythonic api	0.24.0
✓ astroid	A abstract syntax tree for python with inference support.	2.2.5
✓ astropy	Community-developed python library for astronomy	3.1.2
✓ atomicwrites	Atomic file writes.	1.3.0
✓ attrs	Attrs is the python package that will bring back the joy of writing classes by relieving you from the drudgery of implementing object protocols (aka dunder methods).	19.1.0
✓ babel	Utilities to internationalize and localize python applications	2.6.0
✓ backcall	Specifications for callback functions passed in to an api	0.1.0
✓ backports		1.0
✓ backports.os	Backport of new features in python's os module	0.1.1
✓ backports.shutil_g...	A backport of the get_terminal_size function from python 3.3's shutil.	1.0.0

Importer environnement virtuel

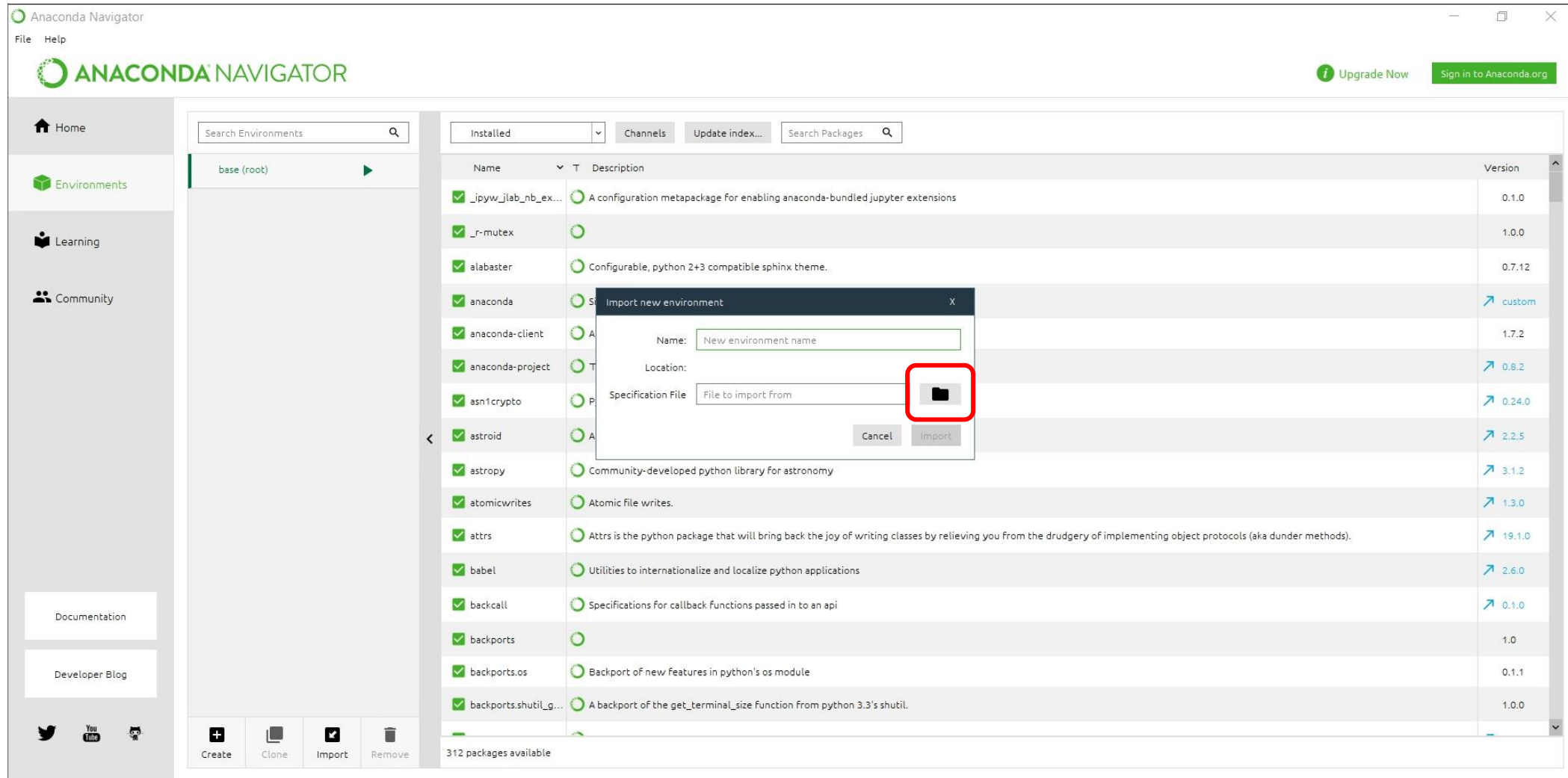
Cliquer sur *Import*

The screenshot shows the Anaconda Navigator application window. The interface includes a sidebar on the left with navigation options: Home, Environments, Learning, and Community. The main area displays a list of installed packages for the 'base (root)' environment. At the bottom of the main area, there are four buttons: Create, Clone, Import, and Remove. The 'Import' button is highlighted with a red rectangular box. The package list includes columns for Name, Description, and Version.

Name	Description	Version
✓ _ipyw_jlab_nb_ex...	A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
✓ _r-mutex		1.0.0
✓ alabaster	Configurable, python 2+3 compatible sphinx theme.	0.7.12
✓ anaconda	Simplifies package management and deployment of anaconda	custom
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✓ babel	Utilities to internationalize and localize python applications	2.6.0
✓ backcall	Specifications for callback functions passed in to an api	0.1.0
✓ backports		1.0
✓ backports.os	Backport of new features in python's os module	0.1.1
✓ backports.shutil_g...	A backport of the get_terminal_size function from python 3.3's shutil.	1.0.0

Importer environnement virtuel

Sélectionner l'environnement nommé *TpGeoPhy.yml*



The screenshot shows the Anaconda Navigator interface. On the left, there is a sidebar with navigation options: Home, Environments, Learning, and Community. The main area displays a list of installed environments. A dialog box titled "Import new environment" is open, showing fields for Name, Location, and Specification File. A red box highlights the file selection icon in the Specification File field. The background shows a list of installed packages with columns for Name, Description, and Version.

Name	Description	Version
✓ _ipyw_jlab_nb_ex...	A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
✓ _r-mutex		1.0.0
✓ alabaster	Configurable, python 2+3 compatible sphinx theme.	0.7.12
✓ anaconda		custom
✓ anaconda-client		1.7.2
✓ anaconda-project		0.8.2
✓ asn1crypto		0.24.0
✓ astroid		2.2.5
✓ astropy	Community-developed python library for astronomy	3.1.2
✓ atomicwrites	Atomic file writes.	1.3.0
✓ attrs	Attrs is the python package that will bring back the joy of writing classes by relieving you from the drudgery of implementing object protocols (aka dunder methods).	19.1.0
✓ babel	Utilities to internationalize and localize python applications	2.6.0
✓ backcall	Specifications for callback functions passed in to an api	0.1.0
✓ backports		1.0
✓ backports.os	Backport of new features in python's os module	0.1.1
✓ backports.shutil_g...	A backport of the get_terminal_size function from python 3.3's shutil.	1.0.0

Importer environnement virtuel

L'environnement *TpGeoPhy* devrait maintenant apparaître dans la liste de vos environnements

The screenshot shows the Anaconda Navigator interface. On the left sidebar, the 'Environments' section is active. In the 'Environments' list, 'base (root)' is selected, and 'TpGeoPhy' is highlighted with a red rectangular box. The main panel displays a list of installed packages for the 'TpGeoPhy' environment. The table below shows the installed packages:

Name	Description	Version
✓ appdirs	A small python module for determining appropriate platform-specific dirs.	1.4.4
✓ argon2-cffi		20.1.0
✓ async_generator	Async generators and context managers for python 3.5+	1.10
✓ atomicwrites	Atomic file writes.	1.4.0
✓ attrs	Attrs is the python package that will bring back the joy of writing classes by relieving you from the drudgery of implementing object protocols (aka dunder methods).	21.2.0
✓ backcall	Specifications for callback functions passed in to an api	0.2.0
✓ bleach	Easy, whitelist-based html-sanitizing tool	3.3.0
✓ bzip2	High-quality data compressor	1.0.8
✓ ca-certificates	Certificates for use with other packages.	2021.4.13
✓ cached-property	A decorator for caching properties in classes.	1.5.2
✓ cached_property		1.5.2
✓ certifi	Python package for providing mozilla's ca bundle.	2020.12.5
✓ cffi	Foreign function interface for python calling c code.	1.14.5
✓ cftime	Time-handling functionality from netcdf4-python	1.4.1
✓ colorama	Cross-platform colored terminal text.	0.4.4
✓ curl	Tool and library for transferring data with url syntax	7.76.1

At the bottom of the package list, it indicates '162 packages available'. The interface also includes a search bar for environments, a dropdown for 'Installed', and buttons for 'Channels', 'Update index...', and 'Search Packages'. The bottom of the interface has buttons for 'Create', 'Clone', 'Import', and 'Remove'.

Lancer le notebook Jupyter

Sélectionner le bon environnement (TpGeoPhy) et démarrer l'application

The screenshot shows the Anaconda Navigator interface. At the top, there is a navigation bar with 'File' and 'Help' menus, the 'ANACONDA NAVIGATOR' logo, and buttons for 'Upgrade Now' and 'Sign in to Anaconda.org'. Below the navigation bar, there is a sidebar on the left with 'Home', 'Environments', 'Learning', and 'Community' options. The main area displays a grid of applications available on the 'TpGeoPhy' channel. A red box labeled '1' highlights the 'Applications on TpGeoPhy Channels' dropdown menu. A yellow box labeled '2' highlights the 'Jupyter Notebook' application card, which includes a 'Launch' button. Other application cards include Qt Console, VS Code, console_shortcut, Glueviz, JupyterLab, Orange 3, powershell_shortcut, RStudio, and Spyder, each with an 'Install' button.