

**Create a new Anaconda environment for installing
geopandas**



Launch Anaconda Navigator

ANACONDA NAVIGATOR

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Applications on base (root) Channels Refresh

Application	Version	Description	Action
JupyterLab	1.1.4	An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.	Launch
Jupyter Notebook	6.0.1	Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.	Launch
Qt Console	4.5.5	PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.	Launch
Spyder	3.3.6	Scientific PYTHON Development EnviRonment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features	Launch
Glueviz	0.15.2	Multidimensional data visualization across files. Explore relationships within and among related datasets.	Install
Orange 3	3.23.1	Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.	Install

Create a new environment in Anaconda

The screenshot shows the Anaconda Navigator application window. The left sidebar contains navigation links: Home, Environments, Learning, and Community. The 'Environments' section is active, displaying a list of environments. The 'base (root)' environment is highlighted with a red box. A red arrow points from a text box to this environment. Below the environment list, there are buttons for 'Create', 'Clone', 'Import', and 'Remove'. The 'Create' button is highlighted with a red box, and a red arrow points from a text box to it. The main panel shows a list of installed packages with columns for Name, Description, and Version. A red box highlights the 'base (root)' environment in the left sidebar, and another red box highlights the 'Create' button at the bottom.

The default “Environment” (called “base”)

base (root)

Create

Click the “Create” Button

Name	Description	Version
_ipyw_jlab_nb_ex...	A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
alabaster	Configurable, python 2+3 compatible sphinx theme.	0.7.12
anaconda	Simplifies package management and deployment of anaconda	2019.10
anaconda-client	Anaconda.org command line client library	1.7.2
anaconda-project	Tool for encapsulating, running, and reproducing data science projects	0.8.3
appnope	Disable app nap on os x 10.9	0.1.0
appscript	Control applescriptable applications from python	1.1.0
asn1crypto	Python asn.1 library with a focus on performance and a pythonic api	1.0.1
astroid	A abstract syntax tree for python with inference support.	2.3.1
astropy	Community-developed python library for astronomy	3.2.2
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).	19.2.0
babel	Utilities to internationalize and localize python applications	2.7.0
backcall	Specifications for callback functions passed in to an api	0.1.0
backports		1.0

314 packages available

Create a new environment in Anaconda (named “geop”)

Step 1: Name the new environment

Step 2: Click “Apply”

Step 3: Wait for a while

Note: the name is up to you

Environment Details:

- Name:
- Location: /opt/anaconda3/envs/geop
- Packages: ☒ Python 3.7, ☐ R

Package List:

Name	Description	Version
_ipyw_jlab_nb_ex...	A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
alabaster	Configurable, python 2+3 compatible sphinx theme.	0.7.12
astroid	A abstract syntax tree for python with inference support.	2.3.1
astropy	Community-developed python library for astronomy	3.2.2
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).	19.2.0
babel	Utilities to internationalize and localize python applications	2.7.0
backcall	Specifications for callback functions passed in to an api	0.1.0
backports		1.0

314 packages available

In the new environment “geop”, search for “geopandas”

The screenshot shows the Anaconda Navigator interface. On the left sidebar, the 'Environments' tab is selected. The main panel displays a list of environments. A new environment named 'geop' has been created and is highlighted with a red box. A red arrow points from the 'geop' environment to the 'Channels' tab, which is also highlighted with a red box. In the 'Channels' tab, the search bar contains 'geop' and the 'Not installed' filter is selected. A red box highlights the 'Not installed' filter. A red arrow points from the 'geopandas' package in the list to the 'geop' environment. A red box highlights the 'geopandas' package. A red arrow points from the 'geopandas' package to the 'geop' environment. A red box highlights the 'geop' environment.

Step 1: Select “not installed”

Step 2: Type in “geopandas”

Step 3: select “geopandas”

New Environment called “geop” is created

Name	T	Description	Version
geopandas		Geographic pandas extensions.	0.6.1

1 package available matching "geop"

Install geopandas in the new environment “geop”

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1 package available matching "geop" 1 package selected

Search Environments

Not installed

Channels

Update index...

geop

base (root)

geop

Name

Description

Version

0.6.1

Install Packages

66 packages will be installed

	Name	Unlink	Link	Channel
1	geopandas	-	0.6.1	pkgs/main
2	*attrs	-	19.3.0	pkgs/main
3	*blas	-	1.0	pkgs/main
4	*bzip2	-	1.0.8	pkgs/main
5	*cairo	-	1.14.12	pkgs/main
6	*click	-	7.1.1	pkgs/main

* indicates the package is a dependency of a selected package

Cancel Apply

Step 5: Click Apply again

Step 4: Click Apply, wait for a while

Apply Clear

Check if geopandas is installed

Anaconda Navigator

Step 1: Select "Installed"

Step 2: Type in "geopandas"

Search Environments

base (root)

geop

Installed

Channels

Update index...

geop

Name	T	Description	Version
✓ geopandas		Geographic pandas extensions.	0.6.1

Installed successfully!

Create Clone Import Remove

1 package available matching "geop"

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In the new environment “geop”, you may also need to install matplotlib

The screenshot shows the Anaconda Navigator application window. The title bar reads "Anaconda Navigator". The top right corner has a green button labeled "Sign in to Anaconda Cloud". The left sidebar contains navigation links: "Home", "Environments", "Learning", and "Community". Below these are links for "Documentation" and "Developer Blog", and social media icons for Twitter, YouTube, and GitHub.

The main interface is divided into two panels. The left panel shows a list of environments: "base (root)" and "geop". The "geop" environment is selected and highlighted with a green bar and a play button icon.

The right panel displays a search results table for the query "matplot". The search bar at the top contains "matplot" and a close button. A dropdown menu above the table is set to "Not installed". The table has columns for "Name", "T", "Description", and "Version".

Name	T	Description	Version
<input type="checkbox"/> basemap	○	Plot on map projections using matplotlib	1.2.0
<input type="checkbox"/> descartes	○	Use geometric objects as matplotlib paths and patches.	1.1.0
<input checked="" type="checkbox"/> matplotlib	○	Publication quality figures in python	3.1.3
<input type="checkbox"/> matplotlib-base	○		3.1.3
<input type="checkbox"/> mpl-scatter-density	○	Matplotlib helpers to make density scatter plots	0.6
<input type="checkbox"/> mpld3	○	D3 viewer for matplotlib.	0.3

At the bottom of the right panel, a status bar indicates "6 packages available matching 'matplot' 1 package selected". In the bottom right corner, there are two buttons: "Apply" (highlighted with a red circle) and "Clear".

At the bottom left of the main interface, there are four buttons: "Create", "Clone", "Import", and "Remove".

In the new environment “geop”, check if “jupyter” is installed

Click the triangle

If it's gray here, it means “jupyter” is NOT installed in the new environment. You need to install “jupyter” using the same process

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geop

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Search Packages

Name	T	Description	Version
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).	19.3.0
certifi		Python p...	1.0
click		High-quality data compressor	1.0.8
click-plugins		Certificates for use with other packages.	2020.1.1
click		Cairo is a 2d graphics library with support for multiple output devices.	1.14.12
click-plugins		Python p...	
cligj		Python c...	
curl		An exten...	
curl		entry-po...	
expat		Click par...	
fiona		Tool and library for transferring data with url syntax	7.67.0
fontconfig		Expat xml parser library in c.	2.2.6
fontconfig		Fiona reads and writes spatial data files.	1.8.4
freetype		A library for configuring and customizing font access.	2.13.0
freexl		A free, high-quality, and portable font engine	2.9.1
freexl		Extract valid data from within an excel	1.0.5

83 packages available 1 package selected

Create Clone Import Remove

Apply Clear

In the new environment “geop”, install “jupyter” if it’s not installed

The screenshot shows the Anaconda Navigator interface. On the left is a sidebar with 'Home', 'Environments', 'Learning', and 'Community'. The main area shows a search for 'jupyter' in the 'geop' environment. A table lists available packages, with 'jupyter' selected. Red callout boxes provide step-by-step instructions: Step 1 (select 'Not installed'), Step 2 (type 'jupyter'), Step 3 (select 'jupyter'), and Step 4 (click 'Apply').

Step 1: Select “not installed”

Step 2: Type in “jupyter”

Step 3: select “jupyter”

Step 4: Click Apply, wait for a while (then a window pops out, you need to click another “apply”)

Name	Description	Version
<input type="checkbox"/> _ipyw_jlab_nb_ex...	A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
<input type="checkbox"/> hdijupyterutils	Project with useful classes/methods for all projects created by the hdinsight team at microsoft around jupyter	0.12.9
<input type="checkbox"/> ipywidgets	Jupyter interactive widgets	7.5.1
<input checked="" type="checkbox"/> jupyter	Jupyter metapackage. install all the jupyter components in one go.	1.0.0
<input type="checkbox"/> jupyter_console	Jupyter terminal console	6.1.0
<input type="checkbox"/> jupyter_dashboar...	An add-on for jupyter notebook	0.9.1
<input type="checkbox"/> jupyter_kernel_ga...	Jupyter kernel gateway	2.4.0
<input type="checkbox"/> jupyter_telemetry		0.0.5
<input type="checkbox"/> jupyterhub	Multi-user server for jupyter notebooks	1.0.0
<input type="checkbox"/> jupyterlab	Jupyterlab pre-alpha	1.2.6
<input type="checkbox"/> jupyterlab_launcher	A launcher for jupyterlab based applications.	0.6.0
<input type="checkbox"/> jupyterlab_server		1.1.0
<input type="checkbox"/> metakernel		0.24.3
<input type="checkbox"/> nb_conda		2.2.1
<input type="checkbox"/> nb_conda_kernels	Launch jupyter kernels for any installed conda environment	2.3

27 packages available matching "jupyter" 1 package selected

Create **Clone** **Import** **Remove** **Apply** **Clear**

Launch Jupyter notebook using the new environment “geop”

Click the triangle

Click this and jupyter notebook will be launched in your web browser

NOTE: To use geopandas, you need to launch jupyter notebook from the “geop” environment using this little triangle EVERY TIME. Otherwise jupyter notebook will use the default “base” environment, which does not have the geopandas module installed

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Not installed

Channels

Update index...

jupyter

Name	T	Description	Version
base (root)			
geop			
jupyterlab_extensions		A configuration metapackage for enabling anaconda-bundled jupyter extensions	0.1.0
jupyterutils		Project with useful classes/methods for all projects created by the hdinsight team at microsoft around jupyter	0.12.9
jupyter_notebook_extensions		An add-on for jupyter notebook	0.9.1
jupyter_kernel_gateway		Jupyter kernel gateway	2.4.0
jupyter_telemetry			0.0.5
jupyterhub		Multi-user Jupyter	
jupyterlab		JupyterLab	
jupyterlab_launcher		A launcher for jupyterlab based applications.	0.6.0
jupyterlab_server		A set of server components for jupyterlab and jupyterlab like applications.	1.1.0
metakernel		Metakernel for jupyter.	0.24.3
nb_conda		Conda environment and package access extension from within jupyter	2.2.1
nb_conda_kernels		Launch jupyter kernels for any installed conda environment	2.2.3
nbpresent		Next generation slides for jupyter notebooks	3.0.2
nbserverproxy		Jupyter server extension to proxy web services	0.8.8
pivottablejs		Pivottable.js integration for jupyter/ipython notebook	0.9.0

19 packages available matching "jupyter"

Create Clone Import Remove