

The introduction to Python

Parallel session of UCSAS 2020

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Installation

anaconda.com/products/individual

Anaconda Installers

Windows

Python 3.8

64-Bit Graphical Installer (466 MB)

32-Bit Graphical Installer (397 MB)

MacOS

Python 3.8

64-Bit Graphical Installer (462 MB)

64-Bit Command Line Installer (454 MB)

Linux

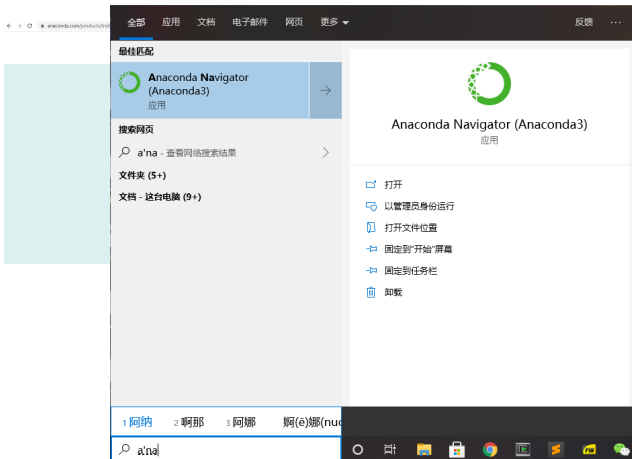
Python 3.8

64-Bit (x86) Installer (550 MB)

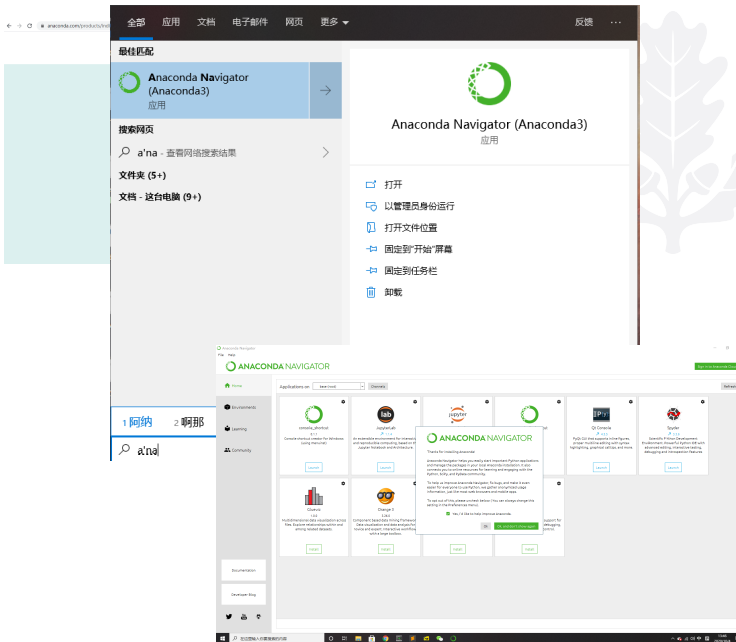
64-Bit (Power8 and Power9) Installer (290 MB)



Installation



Installation



Packages management

ANACONDA NAVIGATOR

Home Environments Channels update index... Search Packages

base (root)

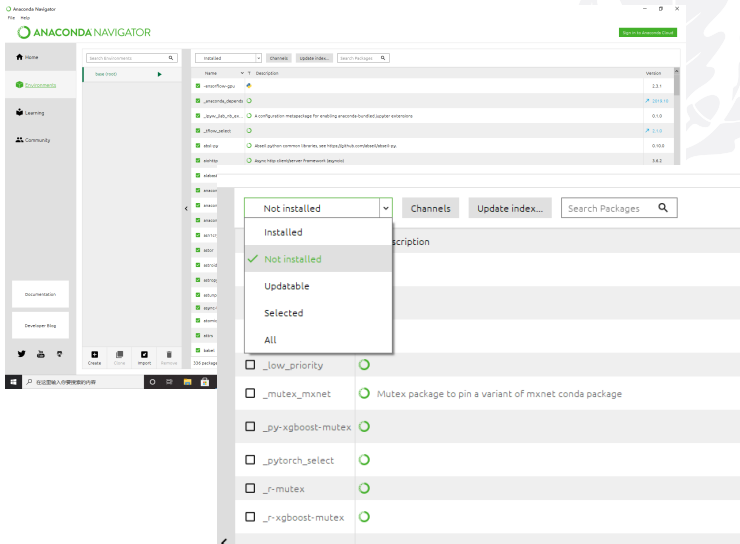
Name	Description	Version
anaconda-gpu		2.3.1
anaconda/conda		2019.10
anaconda/conda	A configuration metapackage for enabling anaconda/conda/conda extensions	0.1.0
anaconda/conda		2.1.0
anaconda	Abstr. python common libraries, see https://github.com/conda/anaconda	0.10.0
anaconda	Abstr. http client/server framework (requests)	3.6.2
anaconda	Configurable python 2-3 compiled libraries theme	0.7.12
anaconda	Simplifies package management and deployment of anaconda	1.0.0
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
anaconda	Python web 1.1 library with a focus on performance and a pythonic api	1.2.1
anaconda	Read, rewrite, and write python code locally	0.8.1
anaconda	A abstract syntax tree for python with inference support	2.3.1
anaconda	Community-developed python library for astronomy	3.2.1
anaconda		1.8.3
anaconda	Timeout context manager for async programs	3.6.1
anaconda	Abstr. file system	1.3.0
anaconda	Abstr. the python package that will bring back the joy of writing clients by relieving you from the drudgery of implementing request protocols (aka client method)	18.0.0
anaconda	Utilities for internationalization and localization python applications	2.1.0

330 packages available

Create Clone Import Remove

15:51 2020/10/18

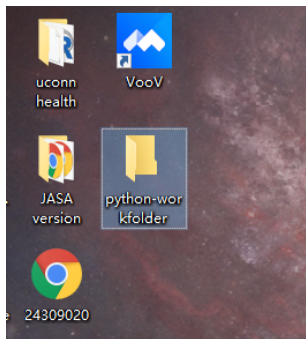
Packages management



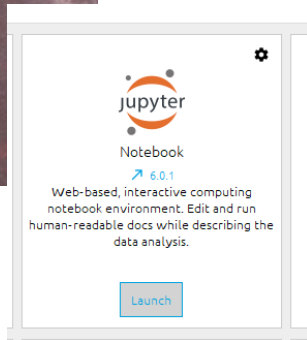
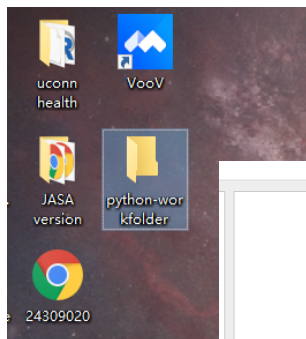
The screenshot displays the Anaconda Navigator application window. On the left is a sidebar with navigation links: Home, Environments, Learning, and Community. The main area is titled 'Environments' and shows a list of installed packages for a specific environment. A dropdown menu is open over the 'Installed' filter, showing options: Not installed, Installed, Not installed (with a green checkmark), Updatable, Selected, and All. The background shows a table of installed packages with columns for Name, Description, and Version.

Name	Description	Version
anaconda-gpu		2.3.1
anaconda,depends		2019.10
python_dependencies	A configuration metapackage for enabling anaconda-bundled python extensions	0.1.0
_libmamba_core		2.1.0
libmamba	libmamba common libraries, see https://github.com/mamba-org/libmamba	0.10.0
libmamba	libmamba common libraries, see https://github.com/mamba-org/libmamba	0.10.0
libmamba	libmamba common libraries, see https://github.com/mamba-org/libmamba	0.10.0

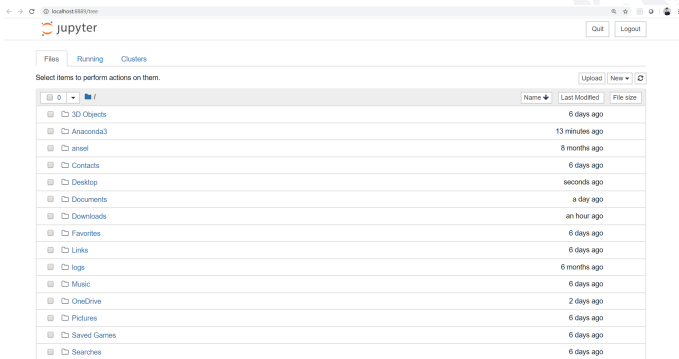
Workspace and launch jupyter



Workspace and launch jupyter



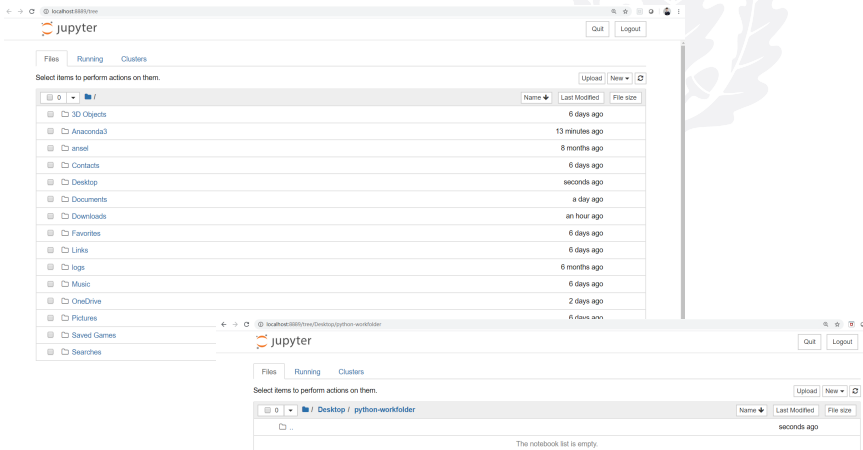
Folders tree in jupyter notebook



The screenshot shows the Jupyter Notebook interface in a web browser. The address bar indicates the local host is running on port 8888. The Jupyter logo is visible in the top left, and 'Quit' and 'Logout' buttons are in the top right. Below the navigation tabs (Files, Running, Clusters), there is a prompt to 'Select items to perform actions on them.' and buttons for 'Upload', 'New', and a refresh icon. The main area displays a file tree for the root directory '/'. The tree lists various system folders with their last modified times.

Name	Last Modified	File size
3D Objects	6 days ago	
Anaconda3	13 minutes ago	
ansei	8 months ago	
Contacts	6 days ago	
Desktop	seconds ago	
Documents	a day ago	
Downloads	an hour ago	
Favorites	6 days ago	
Links	6 days ago	
logs	6 months ago	
Music	6 days ago	
OneDrive	2 days ago	
Pictures	6 days ago	
Saved Games	6 days ago	
Searches	6 days ago	

Folders tree in jupyter notebook



The image displays two screenshots of the Jupyter web interface, illustrating the file browser functionality.

Top Screenshot: Root Directory (/)

The browser shows the root directory with the following folders and their last modified times:

Name	Last Modified	File size
3D Objects	6 days ago	
Anaconda3	13 minutes ago	
ansel	8 months ago	
Contacts	6 days ago	
Desktop	seconds ago	
Documents	a day ago	
Downloads	an hour ago	
Favorites	6 days ago	
Links	6 days ago	
logs	6 months ago	
Music	6 days ago	
OneDrive	2 days ago	
Pictures	6 days ago	
Saved Games		
Searches		

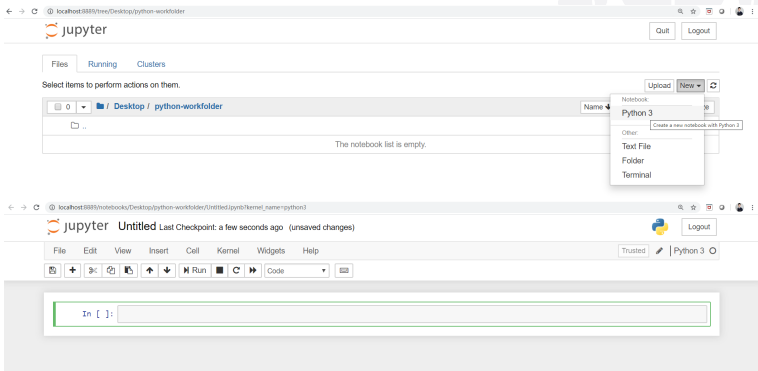
Bottom Screenshot: Desktop / python-workfolder

The browser shows the subdirectory 'python-workfolder' on the Desktop. The notebook list is empty, displaying the message: "The notebook list is empty."

Create the first python script



Create the first python script



Useful info

The material of this session is in [Session Material](#).

Our department website is [Department of Statistics](#).

Our website for statistical data science lab at Uconn is Data Science Lab

