

2019 Q3

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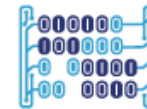
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MACC
Matemáticas Aplicadas y
Ciencias de la Computación

Visualización y Análisis de Datos



HINNT

Hub de INNovación y Transferencia

Juan Fernando Pérez

Escuela de Ingeniería, Ciencia y Tecnología
Universidad del Rosario

Juanferna.perez@urosario.edu.co



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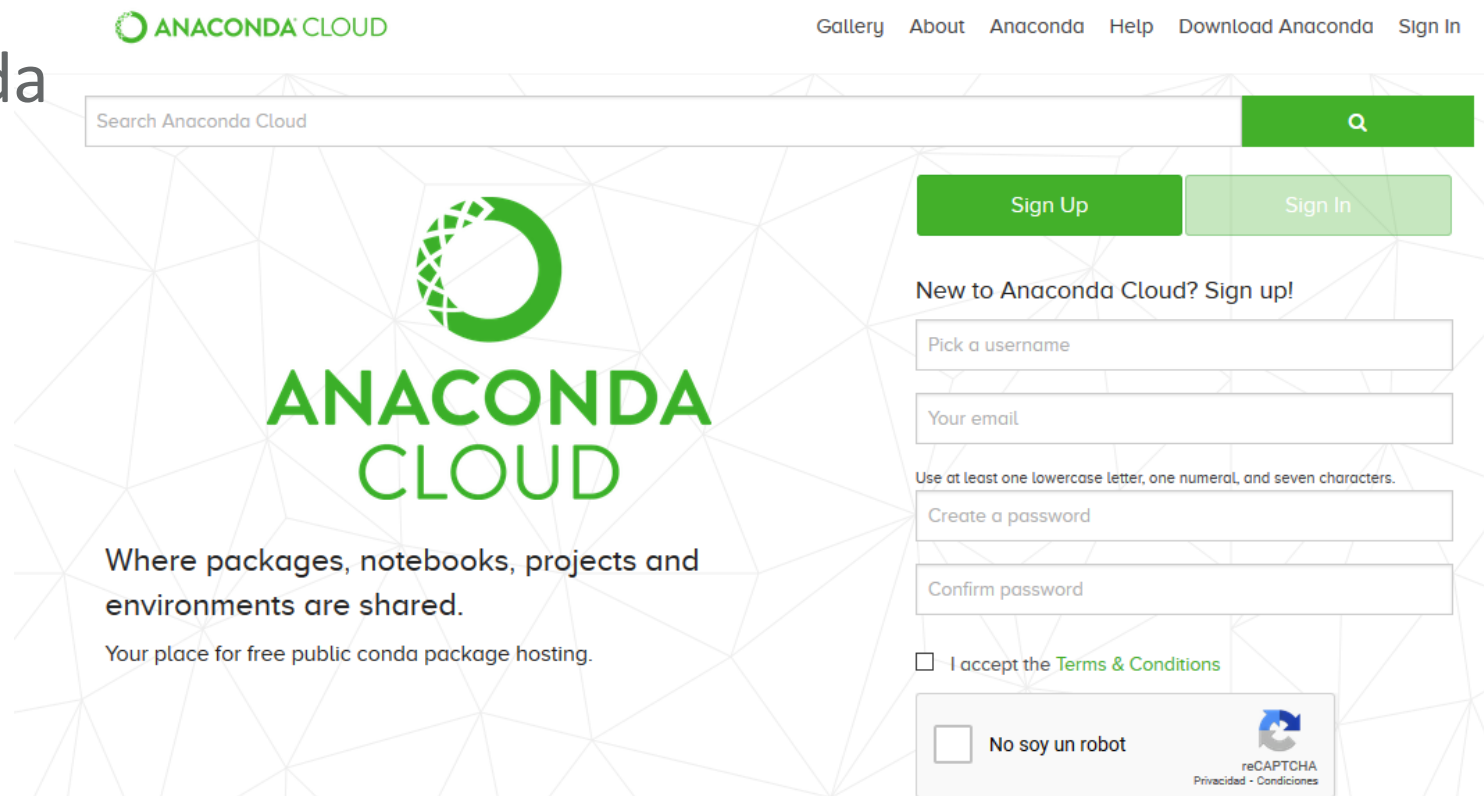


macc_ur

Analítica de datos y Python

www.anaconda.org

Download Anaconda



The screenshot shows the Anaconda Cloud website. At the top, there is a navigation bar with links: Gallery, About, Anaconda, Help, Download Anaconda, and Sign In. Below the navigation bar is a search bar with the placeholder text "Search Anaconda Cloud" and a green search button. The main content area features the Anaconda Cloud logo, which consists of a green circle with a white grid pattern inside, and the text "ANACONDA CLOUD" in green. Below the logo, there is a text block that reads: "Where packages, notebooks, projects and environments are shared. Your place for free public conda package hosting." To the right of the logo, there are two green buttons: "Sign Up" and "Sign In". Below these buttons, there is a section titled "New to Anaconda Cloud? Sign up!". This section contains several input fields: "Pick a username", "Your email", "Create a password" (with a note: "Use at least one lowercase letter, one numeral, and seven characters."), and "Confirm password". Below the password fields, there is a checkbox labeled "I accept the Terms & Conditions". At the bottom right, there is a reCAPTCHA widget with a checkbox labeled "No soy un robot" and the reCAPTCHA logo.

ANAACONDA CLOUD

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Search Anaconda Cloud

Sign Up Sign In

New to Anaconda Cloud? Sign up!

Pick a username

Your email

Use at least one lowercase letter, one numeral, and seven characters.

Create a password

Confirm password

☐ I accept the [Terms & Conditions](#)

☐ No soy un robot

reCAPTCHA
Privacidad - Condiciones

Analítica de datos y Python

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

Individual edition



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Get Started



Individual Edition

Your data science toolkit

With over 20 million users worldwide, the open-source Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for solo practitioners, it is the toolkit that equips you to work with thousands of open-source packages and libraries.


Download

Analítica de datos y Python

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Individual edition

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)

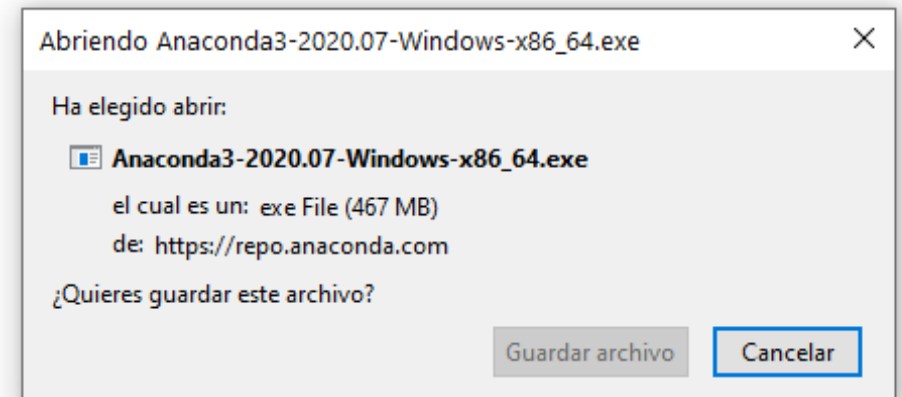
64-Bit (Power8 and Power9) Installer (290 MB)

Analítica de datos y Python

Descargar y ejecutar instalador

Al terminar la instalación, iniciar Anaconda Navigator

Windows: tecla Windows + Anaconda



Anaconda Navigator

Anaconda Navigator

File Help



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CMD.exe Prompt

0.1.1

Run a cmd.exe terminal with your current environment from Navigator activated

Launch



JupyterLab

2.1.5

An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.

Launch



Notebook

6.0.3

Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.

Launch



Powershell Prompt

0.0.1

Run a Powershell terminal with your current environment from Navigator activated

Launch



Qt Console

4.7.5

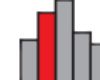
PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.



Spyder

4.1.4

Scientific PYTHON Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and documentation features.



Glueviz

0.15.2

Multidimensional data visualization across files. Explore relationships within and among related datasets.

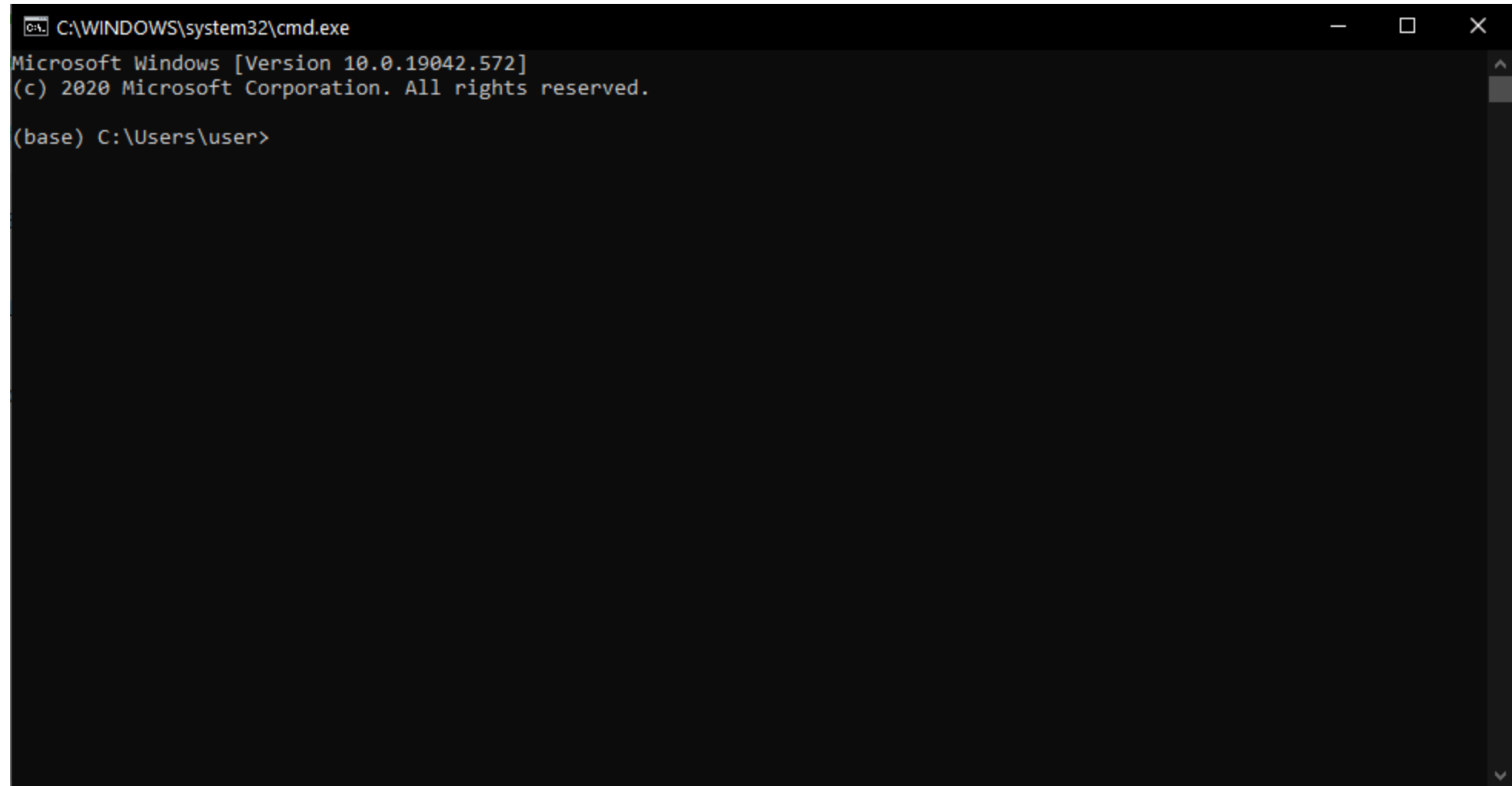


Orange 3

3.26.0

Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a drag-and-drop interface.

Anaconda CMD Prompt



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19042.572]
(c) 2020 Microsoft Corporation. All rights reserved.

(base) C:\Users\user>
```


Anaconda Navigator - environments

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JupyterLab

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Jupyter Notebook

6.0.3

Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.

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Powershell Prompt

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Run a Powershell terminal with your current environment from Navigator activated

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Qt Console

4.7.5

PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.

Spyder

4.1.4

Scientific Python Development Environment. Powerful Python IDE with advanced editing, interactive testing, debugging and introspection features

Glueviz

1.0.0

Multidimensional data visualization across files. Explore relationships within and among related datasets.

Orange 3


3.26.0

Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.

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








base (root)

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CreateCloneImportRemove

InstalledChannelsUpdate index...Search Packages

Name	T	Description	Version
✓ _anaconda_depends			2020.07
✓ 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	0.8.4
✓ argh			0.26.2
✓ argon2-cffi			20.1.0
✓ asn1crypto		Python asn.1 library with a focus on performance and a pythonic api	1.4.0
✓ astroid		A abstract syntax tree for python with inference support.	2.4.2
✓ astropy		Community-developed python library for astronomy	4.0.2
✓ async-generator			1.10
✓ async_generator		Async generators and context managers for python 3.5+	1.10

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Search Packages

Name

Description

Version

Create new environment

Name: py38

Location: E:\aplicaciones\Anaconda3\envs\py38-r

Packages: ☒ Python 3.8 ☐ R r

Cancel Create

		2020.07	
	e sphinx theme.	0.7.12	
	deployment of anaconda	custom	
	library	1.7.2	
	reproducing data science projects	0.8.4	
		0.26.2	
		20.1.0	
<input checked="" type="checkbox"/>	asn1crypto	Python asn.1 library with a focus on performance and a pythonic api	1.4.0
<input checked="" type="checkbox"/>	astroid	A abstract syntax tree for python with inference support.	2.4.2
<input checked="" type="checkbox"/>	astropy	Community-developed python library for astronomy	4.0.2
<input checked="" type="checkbox"/>	async-generator		1.10
<input checked="" type="checkbox"/>	async_generator	Async generators and context managers for python 3.5+	1.10

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Jupyter Notebook 6.1.4
Web-based, interactive computing notebook environment. Edit and run human-readable docs while describing the data analysis.
Launch

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Run a cmd.exe terminal with your current environment from Navigator activated
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Glueviz 1.0.0
Multidimensional data visualization across files. Explore relationships within and among related datasets.
Install

JupyterLab 2.2.6
An extensible environment for interactive and reproducible computing, based on the Jupyter Notebook and Architecture.
Install

Orange 3 3.26.0
Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a large toolbox.
Install

Powershell Prompt 0.0.1
Run a Powershell terminal with your current environment from Navigator activated
Install

Qt Console 4.7.7
PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more.
Install

RStudio 1.1.456
A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks.
Install

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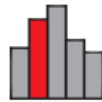





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 Orange 3 3.26.0 Component based data mining framework. Data visualization and data analysis for novice and expert. Interactive workflows with a drag-and-drop interface. Launch	 Powershell Prompt 0.0.1 Run a Powershell terminal with your current environment from Navigator activated Launch	 Qt Console 4.7.7 PyQt GUI that supports inline figures, proper multiline editing with syntax highlighting, graphical calltips, and more. Launch	 RStudio 1.1.456 A set of integrated tools designed to help you be more productive with R. Includes R essentials and notebooks. Launch

Anaconda – Jupyter Notebook

Home Page - Select or create a × +

← → ↺ 🏠 🔒 📄 localhost:8888/tree 90% ⋮ 🛡️ ★ ⬇️ 📁 📄 👤 ☰

 jupyter

Quit

Logout


Files

Running

Clusters


Select items to perform actions on them.

☐ 0 ▼

 /

Upload

New ▼



<input type="checkbox"/>	Name ▼	Last Modified	File size
<input type="checkbox"/>	📁 bdc0-repo	hace 11 minutos	
<input type="checkbox"/>	📁 repository	hace 29 minutos	
<input type="checkbox"/>	📁 scripts	hace 28 minutos	

Anaconda – Jupyter Notebook

The screenshot displays the Jupyter Notebook web interface in a browser. The browser's address bar shows the URL `localhost:8888/tree`. The Jupyter logo is visible in the top left, and 'Quit' and 'Logout' buttons are in the top right. Below the logo, there are tabs for 'Files', 'Running', and 'Clusters', with 'Files' being the active tab. A message 'Select items to perform actions on them.' is shown above a file list. The file list includes a root directory '/' and three subdirectories: 'bdco-repo', 'repository', and 'scripts'. Each item has a checkbox for selection. To the right of the file list, there are buttons for 'Upload', 'New', and a refresh icon. The 'New' button is open, showing a dropdown menu. The menu is divided into two sections: 'Notebook:' and 'Other:'. Under 'Notebook:', there are options for 'Python 3' (which is highlighted) and 'R'. Under 'Other:', there are options for 'Text File', 'Folder', and 'Terminal'. A tooltip with the text 'Create a new notebook with Python 3' is positioned over the 'Python 3' option.

Home Page - Select or create a

localhost:8888/tree 90%

jupyter

Select items to perform actions on them.

☐ 0

☐ bdco-repo

☐ repository

☐ scripts

Notebook:

Python 3

R

Other:

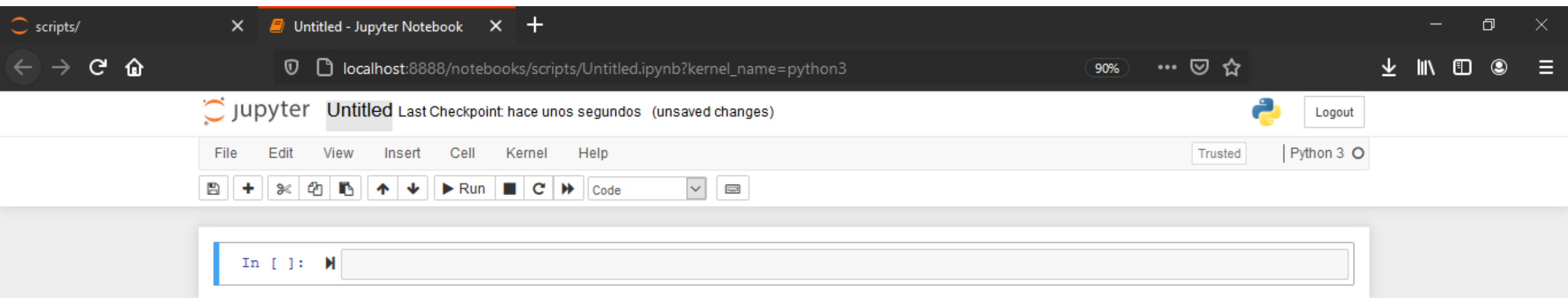
Text File

Folder

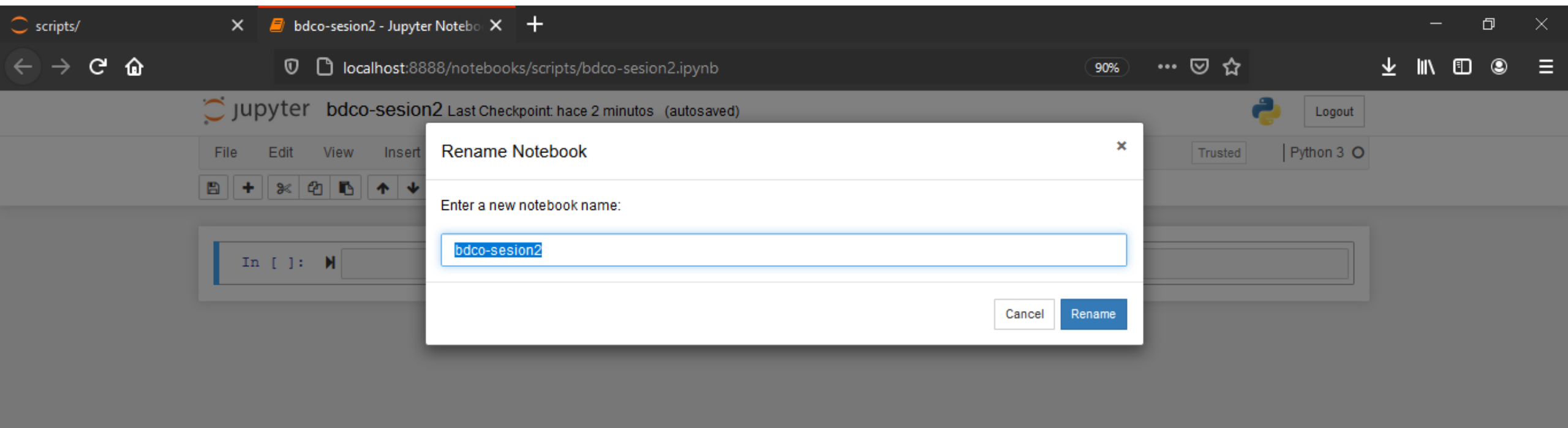
Terminal

Create a new notebook with Python 3

Anaconda– Jupyter Notebook



Anaconda– Jupyter Notebook



Anaconda– Jupyter Notebook

The screenshot displays the Jupyter Notebook interface within a web browser. The browser's address bar shows the URL `localhost:8888/notebooks/scripts/bdco-sesion2.ipynb#`. The Jupyter interface includes a top bar with the notebook name "bdco-sesion2" and a "Last Checkpoint: hace 7 minutos (unsaved changes)" status. Below this is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, and Help. A toolbar contains icons for saving, creating new cells, deleting cells, and running code. The main area shows a code cell with the following content:

```
In [2]: # importar paquetes y darles alias
import pandas as pd
import numpy as np
```

Below the code cell, a traceback is displayed, indicating a `ModuleNotFoundError`:

```
-----
ModuleNotFoundError                                Traceback (most recent call last)
<ipython-input-2-651cbf36abd8> in <module>
      1 # importar paquetes y darles alias
----> 2 import pandas as pd
      3 import numpy as np

ModuleNotFoundError: No module named 'pandas'
```

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Not installed












Channels

Update index...

pandas



Name	T	Description	Version
<input type="checkbox"/> autovizwidget		An auto-visualization library for pandas dataframes	0.17.1
<input type="checkbox"/> blaze		Numpy and pandas interface to big data	0.11.3
<input type="checkbox"/> geopandas		Geographic pandas extensions.	0.8.1
<input checked="" type="checkbox"/> pandas		High-performance, easy-to-use data structures and data analysis tools.	1.1.3
<input type="checkbox"/> pandas-datareader		Up to date remote data access for pandas, works for multiple versions of pandas	0.9.0
<input type="checkbox"/> pandas-profiling		Generate profile report for pandas dataframe	2.9.0
<input type="checkbox"/> pandasql		SqlDf for pandas	0.7.3
<input type="checkbox"/> qgrid		Pandas dataframe viewer for jupyter notebook	1.3.1
<input type="checkbox"/> streamz		Manage streaming data, optionally with dask and pandas	0.6.1

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Install Packages

10 packages will be installed

	Name	Unlink	Link	Channel
1	pandas	-	1.1.3	pkgs/main
2	*blas	-	1.0	pkgs/main
3	*intel-openmp	-	2020.2	pkgs/main
4	*mkl	-	2020.2	pkgs/main
5	*mkl-service	-	2.3.0	pkgs/main
6	*mkl_fft	-	1.2.0	pkgs/main
7	*mkl_random	-	1.1.1	pkgs/main

* indicates the package is a dependency of a selected package

Cancel

Apply



Create



Clone



Import



Remove

9 packages available matching "pandas" 1 package selected

Apply

Clear

pandas

Version

pandas dataframes

0.17.1

big data

0.11.3

0.8.1

data structures and data analysis tools.

1.1.3

or pandas, works for multiple versions of pandas

0.9.0

as dataframe

2.9.0


0.7.3

byter notebook


1.3.1


lly with dask and pandas

0.6.1

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High-performance, easy-to-use data structures and data analysis tools.


1.1.3

1 package available matching "pandas"

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Name



T

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Version



pandas



High-performance, easy-to-use data structures and data analysis tools.

1.1.3

1 package available matching "pandas"