

Watermark

Watermark is a plug-in or extension for Jupyter lab, rather than a library. It will generate a listing in the notebook about the computer system in use and the version numbers of the environment that the code is run in.

This is an easy way to document the conditions the code was written in.

```
In [2]: # if you have never run watermark, we will need to install the package  
# this needs to be done only once per environment  
!pip install watermark
```

Collecting watermark

```
    Downloading watermark-2.6.0-py3-none-any.whl.metadata (15 kB)
Requirement already satisfied: ipython>=6.0 in /opt/anaconda3/lib/python3.1
3/site-packages (from watermark) (9.7.0)
Requirement already satisfied: importlib-metadata>=1.4 in /opt/anaconda3/li
b/python3.13/site-packages (from watermark) (8.7.0)
Requirement already satisfied: setuptools in /opt/anaconda3/lib/python3.13/s
ite-packages (from watermark) (80.9.0)
Requirement already satisfied: zipp>=3.20 in /opt/anaconda3/lib/python3.13/s
ite-packages (from importlib-metadata>=1.4->watermark) (3.23.0)
Requirement already satisfied: decorator>=4.3.2 in /opt/anaconda3/lib/python
3.13/site-packages (from ipython>=6.0->watermark) (5.2.1)
Requirement already satisfied: ipython-pygments-lexers>=1.0.0 in /opt/anacon
da3/lib/python3.13/site-packages (from ipython>=6.0->watermark) (1.1.1)
Requirement already satisfied: jedi>=0.18.1 in /opt/anaconda3/lib/python3.1
3/site-packages (from ipython>=6.0->watermark) (0.19.2)
Requirement already satisfied: matplotlib-inline>=0.1.5 in /opt/anaconda3/li
b/python3.13/site-packages (from ipython>=6.0->watermark) (0.2.1)
Requirement already satisfied: pexpect>4.3 in /opt/anaconda3/lib/python3.13/
site-packages (from ipython>=6.0->watermark) (4.9.0)
Requirement already satisfied: prompt_toolkit<3.1.0,>=3.0.41 in /opt/anacond
a3/lib/python3.13/site-packages (from ipython>=6.0->watermark) (3.0.52)
Requirement already satisfied: pygments>=2.11.0 in /opt/anaconda3/lib/python
3.13/site-packages (from ipython>=6.0->watermark) (2.19.2)
Requirement already satisfied: stack_data>=0.6.0 in /opt/anaconda3/lib/pytho
n3.13/site-packages (from ipython>=6.0->watermark) (0.6.3)
Requirement already satisfied: traitlets>=5.13.0 in /opt/anaconda3/lib/pytho
n3.13/site-packages (from ipython>=6.0->watermark) (5.14.3)
Requirement already satisfied: wcwidth in /opt/anaconda3/lib/python3.13/site
-packages (from prompt_toolkit<3.1.0,>=3.0.41->ipython>=6.0->watermark) (0.
2.13)
Requirement already satisfied: parso<0.9.0,>=0.8.4 in /opt/anaconda3/lib/pyt
hon3.13/site-packages (from jedi>=0.18.1->ipython>=6.0->watermark) (0.8.5)
Requirement already satisfied: ptyprocess>=0.5 in /opt/anaconda3/lib/python
3.13/site-packages (from pexpect>4.3->ipython>=6.0->watermark) (0.7.0)
Requirement already satisfied: executing>=1.2.0 in /opt/anaconda3/lib/python
3.13/site-packages (from stack_data>=0.6.0->ipython>=6.0->watermark) (2.2.1)
Requirement already satisfied: asttokens>=2.1.0 in /opt/anaconda3/lib/python
3.13/site-packages (from stack_data>=0.6.0->ipython>=6.0->watermark) (3.0.0)
Requirement already satisfied: pure_eval in /opt/anaconda3/lib/python3.13/si
te-packages (from stack_data>=0.6.0->ipython>=6.0->watermark) (0.2.3)
    Downloading watermark-2.6.0-py3-none-any.whl (13 kB)
Installing collected packages: watermark
Successfully installed watermark-2.6.0
```

In [3]: # package imports

```
import pandas as pd
import numpy as np
import plotnine as p9
```

In [4]: # is a jupyter notebook "magic" command, this is not a python or operatin
system. Magic commands start with %, the command below loads the waterm

```
%load_ext watermark
```

For more on extensions see

<https://jupyterlab.readthedocs.io/en/stable/user/extensions.html>

```
In [6]: # here is the watermark, I usually put these at the end
```

```
%watermark
```

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Python implementation: CPython

Python version : 3.13.9

IPython version : 9.7.0

Compiler : Clang 20.1.8

OS : Darwin

Release : 25.2.0

Machine : arm64

Processor : arm

CPU cores : 10

Architecture: 64bit

```
In [7]: # adding --packages package1,package2,package3,....
```

will show the package versions as well for each specified package

```
%watermark --packages pandas,numpy,plotnine
```

pandas : 2.3.3

numpy : 2.3.5

plotnine: 0.15.2

```
In [ ]:
```