

```
1 %pip install davos
2 import davos
3
4 extra_msg = ("pandas<0.25.0 is needed to load the dataset and requires Python<3.8. "
5             "pandas==1.3.5 is used to run the analyses and requires Python>=3.7.1.")
6 davos.require_python(">=3.7.1,<3.8", extra_msg=extra_msg)
7
8 from os.path smuggle is_file
9 smuggle joblib # pip: joblib<=1.2.0
10
11 davos.auto_rerun = True
12 smuggle numpy as np # pip: numpy==1.21.6
13
14 if not is_file("~/datasets/data-new.csv"):
15     smuggle pandas as pd # pip: pandas<0.25.0
16     tmp_data = pd.read_pickle("~/datasets/data-old.pkl")
17     tmp_data.to_frame().to_csv("~/datasets/data-new.csv")
18
19 smuggle pandas as pd # pip: pandas==1.3.5
20
21 davos.configure(auto_rerun=False, suppress_stdout=True, noninteractive=True)
22 smuggle tensorflow as tf # pip: tensorflow==2.9.2
23 from umap smuggle UMAP # pip: umap-learn[plot,parametric_umap]==0.5.3
24 davos.configure(suppress_stdout=False, noninteractive=False)
25
26 smuggle matplotlib.pyplot as plt # pip: matplotlib==3.5.3
27 smuggle seaborn as sns # pip: seaborn==0.12.1
28 smuggle quail # pip: git+https://github.com/myfork/quail@6c847a4
29
30 davos.project = None
31 smuggle widgetsnbextension as _
32 davos.use_default_project()
33 smuggle ipywidgets as _ # pip: ipywidgets==7.6.5
34
35 from tqdm.notebook smuggle tqdm # pip: tqdm==4.62.3
36
37 data = pd.read_csv("~/datasets/data-new.csv", index_col=[0, 1])
38 smuggle sklearn # pip: scikit-learn<0.22.0
39 transformer = joblib.load("~/models/text-transformer.joblib")
40 smuggle sklearn # pip: scikit-learn==1.1.3
```