

# Exporting\_to\_PDF

January 9, 2024

## 1 Preparing to exporting Jupyter notebooks as a PDF

We need a couple of packages installed in our environment

```
[ ]: pip install pandoc
      pip install nbconvert PyPDF2
```

Collecting nbconvert

Downloading nbconvert-7.14.0-py3-none-any.whl.metadata (7.7 kB)

Collecting PyPDF2

Downloading pypdf2-3.0.1-py3-none-any.whl (232 kB)

```
----- 0.0/232.6 kB ? eta -:--:--
-  ----- 10.2/232.6 kB ? eta -:--:--
----- 41.0/232.6 kB 991.0 kB/s eta 0:00:01
----- 232.6/232.6 kB 2.9 MB/s eta 0:00:00
```

Collecting beautifulsoup4 (from nbconvert)

Downloading beautifulsoup4-4.12.2-py3-none-any.whl (142 kB)

```
----- 0.0/143.0 kB ? eta -:--:--
----- 143.0/143.0 kB ? eta 0:00:00
```

Collecting bleach!=5.0.0 (from nbconvert)

Downloading bleach-6.1.0-py3-none-any.whl.metadata (30 kB)

Collecting defusedxml (from nbconvert)

Downloading defusedxml-0.7.1-py2.py3-none-any.whl (25 kB)

Collecting jinja2>=3.0 (from nbconvert)

Downloading Jinja2-3.1.2-py3-none-any.whl (133 kB)

```
----- 0.0/133.1 kB ? eta -:--:--
----- 133.1/133.1 kB ? eta 0:00:00
```

Requirement already satisfied: jupyter-core>=4.7 in

c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from nbconvert)  
(5.5.0)

Collecting jupyterlab-pygments (from nbconvert)

Downloading jupyterlab\_pygments-0.3.0-py3-none-any.whl.metadata (4.4 kB)

Collecting markupsafe>=2.0 (from nbconvert)

Downloading MarkupSafe-2.1.3-cp311-cp311-win\_amd64.whl.metadata (3.1 kB)

Collecting mistune<4,>=2.0.3 (from nbconvert)

Downloading mistune-3.0.2-py3-none-any.whl.metadata (1.7 kB)

Collecting nbclient>=0.5.0 (from nbconvert)

Downloading nbclient-0.9.0-py3-none-any.whl.metadata (7.8 kB)

```

Collecting nbformat>=5.7 (from nbconvert)
  Downloading nbformat-5.9.2-py3-none-any.whl.metadata (3.4 kB)
Requirement already satisfied: packaging in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from nbconvert) (23.1)
Collecting pandocfilters>=1.4.1 (from nbconvert)
  Downloading pandocfilters-1.5.0-py2.py3-none-any.whl (8.7 kB)
Requirement already satisfied: pygments>=2.4.1 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from nbconvert)
(2.15.1)
Collecting tinycss2 (from nbconvert)
  Downloading tinycss2-1.2.1-py3-none-any.whl (21 kB)
Requirement already satisfied: traitlets>=5.1 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from nbconvert)
(5.7.1)
Requirement already satisfied: six>=1.9.0 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from
bleach!=5.0.0->nbconvert) (1.16.0)
Collecting webencodings (from bleach!=5.0.0->nbconvert)
  Downloading webencodings-0.5.1-py2.py3-none-any.whl (11 kB)
Requirement already satisfied: platformdirs>=2.5 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from jupyter-
core>=4.7->nbconvert) (3.10.0)
Requirement already satisfied: pywin32>=300 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from jupyter-
core>=4.7->nbconvert) (305.1)
Requirement already satisfied: jupyter-client>=6.1.12 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from
nbclient>=0.5.0->nbconvert) (8.6.0)
Collecting fastjsonschema (from nbformat>=5.7->nbconvert)
  Downloading fastjsonschema-2.19.1-py3-none-any.whl.metadata (2.1 kB)
Collecting jsonschema>=2.6 (from nbformat>=5.7->nbconvert)
  Downloading jsonschema-4.20.0-py3-none-any.whl.metadata (8.1 kB)
Collecting soupsieve>1.2 (from beautifulsoup4->nbconvert)
  Downloading soupsieve-2.5-py3-none-any.whl.metadata (4.7 kB)
Collecting attrs>=22.2.0 (from jsonschema>=2.6->nbformat>=5.7->nbconvert)
  Using cached attrs-23.2.0-py3-none-any.whl.metadata (9.5 kB)
Collecting jsonschema-specifications>=2023.03.6 (from
jsonschema>=2.6->nbformat>=5.7->nbconvert)
  Downloading jsonschema_specifications-2023.12.1-py3-none-any.whl.metadata (3.0
kB)
Collecting referencing>=0.28.4 (from jsonschema>=2.6->nbformat>=5.7->nbconvert)
  Downloading referencing-0.32.1-py3-none-any.whl.metadata (2.7 kB)
Collecting rpds-py>=0.7.1 (from jsonschema>=2.6->nbformat>=5.7->nbconvert)
  Downloading rpds_py-0.16.2-cp311-none-win_amd64.whl.metadata (4.2 kB)
Requirement already satisfied: python-dateutil>=2.8.2 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from jupyter-
client>=6.1.12->nbclient>=0.5.0->nbconvert) (2.8.2)
Requirement already satisfied: pyzmq>=23.0 in

```

```

c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from jupyter-
client>=6.1.12->nbclient>=0.5.0->nbconvert) (25.1.0)
Requirement already satisfied: tornado>=6.2 in
c:\users\nilsdi\anaconda3\envs\tep4290\lib\site-packages (from jupyter-
client>=6.1.12->nbclient>=0.5.0->nbconvert) (6.3.3)
Downloading nbconvert-7.14.0-py3-none-any.whl (256 kB)
----- 0.0/256.4 kB ? eta -:--:--
----- 256.4/256.4 kB 16.4 MB/s eta 0:00:00
Downloading bleach-6.1.0-py3-none-any.whl (162 kB)
----- 0.0/162.8 kB ? eta -:--:--
----- 162.8/162.8 kB ? eta 0:00:00
Downloading MarkupSafe-2.1.3-cp311-cp311-win_amd64.whl (17 kB)
Downloading mistune-3.0.2-py3-none-any.whl (47 kB)
----- 0.0/48.0 kB ? eta -:--:--
----- 48.0/48.0 kB 2.4 MB/s eta 0:00:00
Downloading nbclient-0.9.0-py3-none-any.whl (24 kB)
Downloading nbformat-5.9.2-py3-none-any.whl (77 kB)
----- 0.0/77.6 kB ? eta -:--:--
----- 77.6/77.6 kB 4.2 MB/s eta 0:00:00
Downloading jupyterlab_pygments-0.3.0-py3-none-any.whl (15 kB)
Downloading jsonschema-4.20.0-py3-none-any.whl (84 kB)
----- 0.0/84.7 kB ? eta -:--:--
----- 84.7/84.7 kB ? eta 0:00:00
Downloading soupsieve-2.5-py3-none-any.whl (36 kB)
Downloading fastjsonschema-2.19.1-py3-none-any.whl (23 kB)
Using cached attrs-23.2.0-py3-none-any.whl (60 kB)
Downloading jsonschema_specifications-2023.12.1-py3-none-any.whl (18 kB)
Downloading referencing-0.32.1-py3-none-any.whl (26 kB)
Downloading rpds_py-0.16.2-cp311-none-win_amd64.whl (195 kB)
----- 0.0/195.8 kB ? eta -:--:--
----- 195.8/195.8 kB ? eta 0:00:00
Installing collected packages: webencodings, fastjsonschema, tinycss2,
soupsieve, rpds-py, PyPDF2, pandocfilters, mistune, markupsafe, jupyterlab-
pygments, defusedxml, bleach, attrs, referencing, jinja2, beautifulsoup4,
jsonschema-specifications, jsonschema, nbformat, nbclient, nbconvert
Successfully installed PyPDF2-3.0.1 attrs-23.2.0 beautifulsoup4-4.12.2
bleach-6.1.0 defusedxml-0.7.1 fastjsonschema-2.19.1 jinja2-3.1.2
jsonschema-4.20.0 jsonschema-specifications-2023.12.1 jupyterlab-pygments-0.3.0
markupsafe-2.1.3 mistune-3.0.2 nbclient-0.9.0 nbconvert-7.14.0 nbformat-5.9.2
pandocfilters-1.5.0 referencing-0.32.1 rpds-py-0.16.2 soupsieve-2.5
tinycss2-1.2.1 webencodings-0.5.1
Note: you may need to restart the kernel to use updated packages.

```

## 1.1 additional installations

You want to have pandoc and xelatex on your device. The former you can get by downloading and executing the .msc file that fits your system (linux, windows, mac): - <https://github.com/jgm/pandoc/releases/tag/3.1.11.1>

The latter you can get on the latex project (just install any major version): - <https://www.latex-project.org/get/#tex-distributions>

## 2 If all of this does not work...

Just save as html and then convert the html in your browser...

```
[ ]: print(1+1)
```

2