

ipynb_Convertor

October 22, 2025

1 nbconvert

nbconvert is a tool that allows you to convert a Jupyter notebook .ipynb file into static format such as: HTML, LaTeX, PDF, Markdown and more.

This notebook has been developed to demonstrate the use of Jupyter Notebook as an interactive environment for **data analysis, visualization, and reproducible research**. Jupyter provides a flexible platform that integrates executable code, narrative text, equations, and visual outputs within a single document. This combination makes it particularly valuable for scientific research, teaching, and collaborative projects, as it allows both the computational process and its interpretation to be documented transparently.

2 Methods and Materials

include using to convert the notebook to HTML and PDF formats. The notebook utilizes the following:

Jupyter nbconvert: A command-line tool used to convert Jupyter Notebooks into various formats, including HTML and PDF.

TeX Live: A distribution of the TeX typesetting system, which provides the necessary packages for the LaTeX to PDF conversion.

Pandoc: A universal document converter used for converting files from one markup format to another, facilitating the creation of PDFs from notebooks.

```
[2]: # Optional for when You working via google colaboratory
from google.colab import drive
drive.mount('/content/drive')
```

Mounted at /content/drive

3 Results

3.1 Convert .ipynb to HTML then print as PDF

```
[12]: !jupyter nbconvert --to html "/content/ipynb_Convertor.ipynb"
print('Conversion Complete')
```

```
[NbConvertApp] Converting notebook /content/ipynb_Convertor.ipynb to html
[NbConvertApp] Writing 303177 bytes to /content/ipynb_Convertor.html
Conversion Complete
```

3.2 Convert .ipynb to PDF

```
[ ]: !sudo apt-get install texlive-xetex texlive-fonts-recommended_
↪texlive-plain-generic
```

```
[ ]: !sudo apt-get install pandoc
```

```
[10]: !jupyter nbconvert --to pdf "/content/ipynb_Convertor.ipynb"
print('Conversion Complete')
```

```
[NbConvertApp] Converting notebook /content/ipynb_Convertor.ipynb to pdf
[NbConvertApp] Writing 50315 bytes to notebook.tex
[NbConvertApp] Building PDF
[NbConvertApp] Running xelatex 3 times: ['xelatex', 'notebook.tex', '-quiet']
[NbConvertApp] Running bibtex 1 time: ['bibtex', 'notebook']
[NbConvertApp] WARNING | bibtex had problems, most likely because there were no
citations
[NbConvertApp] PDF successfully created
[NbConvertApp] Writing 52752 bytes to /content/ipynb_Convertor.pdf
Conversion Complete
```

4 References

- [Convert Notebooks to other formats](#) from nbconvert Documentation
- [Installing TeX](#) from nbconvert Documentation