

Análisis Grafico - Blood Test

October 7, 2024

1 3. Análisis Exploratorio de Datos (EDA)

```
[99]: import pandas as pd
import numpy as np

# Establecer la semilla para reproducibilidad
np.random.seed(42)

# Número de muestras
n_samples = 800

# Generar datos ficticios
data = {
    'Hemoglobina (g/dL)': np.random.uniform(12.0, 18.0, n_samples), # Valores típicos de hemoglobina
    'Glóbulos Rojos (millones/ $\mu$ L)': np.random.uniform(4.5, 6.0, n_samples), # Valores típicos de glóbulos rojos
    'Glóbulos Blancos (miles/ $\mu$ L)': np.random.uniform(4.0, 11.0, n_samples), # Valores típicos de glóbulos blancos
    'Plaquetas (miles/ $\mu$ L)': np.random.uniform(150, 400, n_samples), # Valores típicos de plaquetas
    'Colesterol Total (mg/dL)': np.random.uniform(150, 240, n_samples), # Valores típicos de colesterol total
    'Glucosa (mg/dL)': np.random.uniform(70, 140, n_samples) # Valores típicos de glucosa
}

# Crear DataFrame
df = pd.DataFrame(data)

# Mostrar las primeras filas del DataFrame
df.head()
```

```
[99]: Hemoglobina (g/dL)  Glóbulos Rojos (millones/ $\mu$ L)  \
0          14.247241          5.560858
1          17.704286          4.728809
2          16.391964          5.364433
```

3	15.591951	5.410073
4	12.936112	5.136196

	Glóbulos Blancos (miles/ μ L)	Plaquetas (miles/ μ L) \
0	5.343071	235.151042
1	6.263601	167.927972
2	5.586595	252.407224
3	6.484974	227.804374
4	4.485967	319.280160

	Colesterol Total (mg/dL)	Glucosa (mg/dL)
0	199.803407	110.039711
1	195.281923	126.380263
2	167.447676	123.211265
3	227.293509	80.772993
4	210.924670	80.447463

```
[101]: import matplotlib.pyplot as plt

# Establecer la fuente
plt.rcParams['font.family'] = 'DejaVu Serif'

# Crear una figura y una cuadrícula de subgráficos
fig, axs = plt.subplots(2, 3, figsize=(18, 10))
fig.suptitle('Análisis de Pruebas de Sangre', fontsize=24)

# Gráfico 1: Hemoglobina
axs[0, 0].hist(df['Hemoglobina (g/dL)'], bins=35, color='royalblue',
               edgecolor='black')
axs[0, 0].set_title('Distribución de Hemoglobina')
axs[0, 0].set_xlabel('Hemoglobina (g/dL)')
axs[0, 0].set_ylabel('Frecuencia')

# Gráfico 2: Glóbulos Rojos
axs[0, 1].hist(df['Glóbulos Rojos (millones/ $\mu$ L)'], bins=35, color='coral',
               edgecolor='black')
axs[0, 1].set_title('Distribución de Glóbulos Rojos')
axs[0, 1].set_xlabel('Glóbulos Rojos (millones/ $\mu$ L)')
axs[0, 1].set_ylabel('Frecuencia')

# Gráfico 3: Glóbulos Blancos
axs[0, 2].hist(df['Glóbulos Blancos (miles/ $\mu$ L)'], bins=20, color='lightgreen',
               edgecolor='black')
axs[0, 2].set_title('Distribución de Glóbulos Blancos')
axs[0, 2].set_xlabel('Glóbulos Blancos (miles/ $\mu$ L)')
axs[0, 2].set_ylabel('Frecuencia')
```

```

# Gráfico 4: Plaquetas
axs[1, 0].hist(df['Plaquetas (miles/μL)'], bins=35, color='orange',
               edgecolor='black')
axs[1, 0].set_title('Distribución de Plaquetas')
axs[1, 0].set_xlabel('Plaquetas (miles/μL)')
axs[1, 0].set_ylabel('Frecuencia')

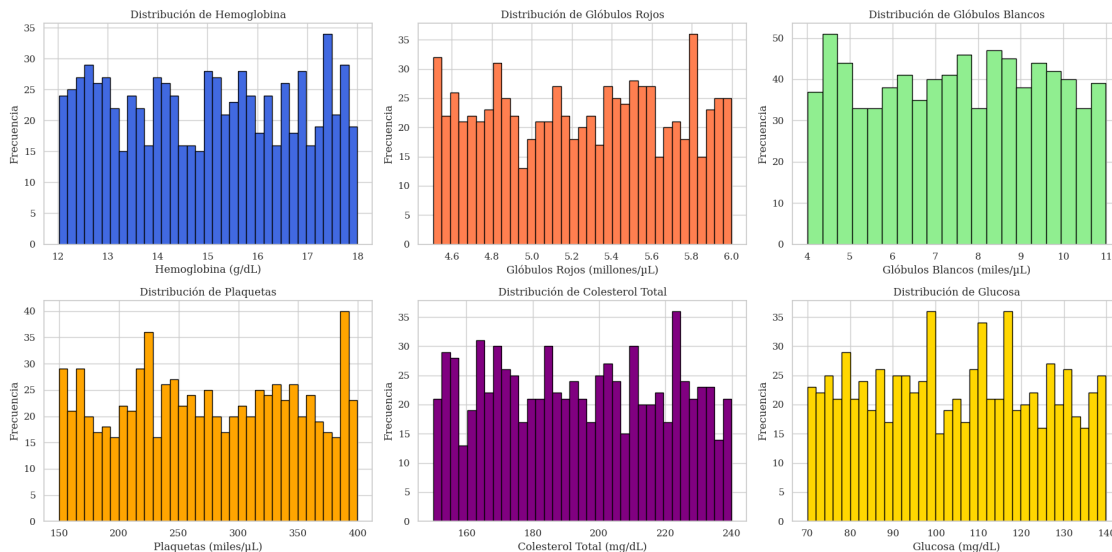
# Gráfico 5: Colesterol Total
axs[1, 1].hist(df['Colesterol Total (mg/dL)'], bins=35, color='purple',
               edgecolor='black')
axs[1, 1].set_title('Distribución de Colesterol Total')
axs[1, 1].set_xlabel('Colesterol Total (mg/dL)')
axs[1, 1].set_ylabel('Frecuencia')

# Gráfico 6: Glucosa
axs[1, 2].hist(df['Glucosa (mg/dL)'], bins=35, color='gold', edgecolor='black')
axs[1, 2].set_title('Distribución de Glucosa')
axs[1, 2].set_xlabel('Glucosa (mg/dL)')
axs[1, 2].set_ylabel('Frecuencia')

# Ajustar el espacio entre gráficos
plt.tight_layout(rect=[0, 0, 1, 0.95])
plt.show()

```

Análisis de Pruebas de Sangre



```

[124]: # prompt: Genera un histograma elegante con bordes de barras definidos y gruesos

import matplotlib.pyplot as plt

```

```

import seaborn as sns

# Establecer la fuente
plt.rcParams['font.family'] = 'DejaVu Serif'

# Establecer el estilo de Seaborn para un aspecto más elegante
sns.set_style("whitegrid")

# Crear una figura y un eje
fig, ax = plt.subplots(figsize=(8, 6))

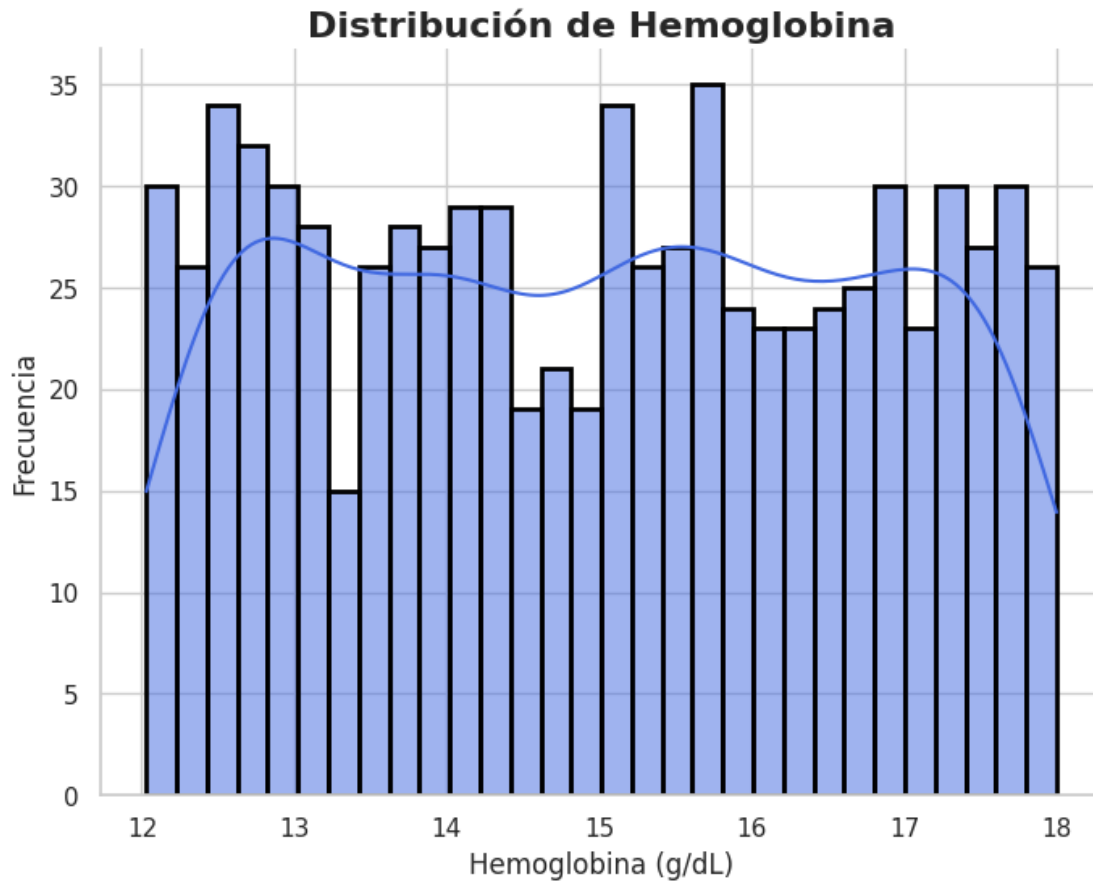
# Generar el histograma con Seaborn
sns.histplot(df['Hemoglobina (g/dL)'], bins=30, kde=True, color='royalblue',
             edgecolor='black', linewidth=2)

# Personalizar el título y etiquetas
ax.set_title('Distribución de Hemoglobina', fontsize=16, fontweight='bold')
ax.set_xlabel('Hemoglobina (g/dL)', fontsize=12)
ax.set_ylabel('Frecuencia', fontsize=12)

# Ajustar el aspecto de las líneas del eje
ax.spines['top'].set_visible(False)
ax.spines['right'].set_visible(False)

# Mostrar el gráfico
plt.show()

```



[127]: *# prompt: Crea un grafico moderno de distribucion normal con mi CI de 132*

```
import matplotlib.pyplot as plt
import numpy as np
import scipy.stats as stats

# Parámetros de la distribución normal
media = 132 # Tu CI
desviacion_estandar = 10 # Puedes ajustar este valor según tu caso

# Generar datos para la distribución
x = np.linspace(media - 3 * desviacion_estandar, media + 3 *
↪desviacion_estandar, 100)
y = stats.norm.pdf(x, media, desviacion_estandar)

# Línea de CI
ci_x = [media - desviacion_estandar, media + desviacion_estandar]
ci_y = [0, 0]
```

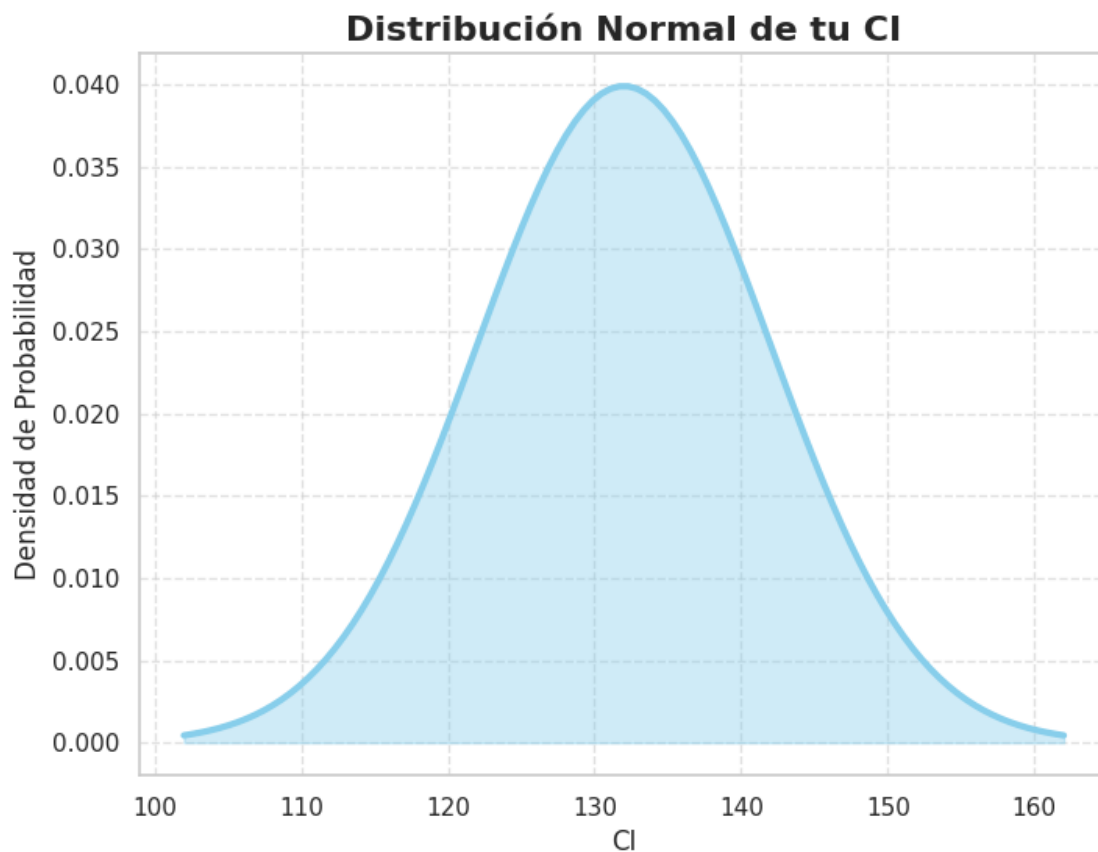
```

# Crear el gráfico
plt.figure(figsize=(8, 6))
plt.plot(x, y, color='skyblue', linewidth=3)
plt.fill_between(x, y, color='skyblue', alpha=0.4)

# Agregar detalles al gráfico
plt.title('Distribución Normal de tu CI', fontsize=16, fontweight='bold')
plt.xlabel('CI', fontsize=12)
plt.ylabel('Densidad de Probabilidad', fontsize=12)
plt.grid(True, linestyle='--', alpha=0.6)

# Mostrar el gráfico
plt.show()

```



[129]: *# prompt: Genera la salida en PDF como reporte de este notebook usando tex*

```

!apt-get install texlive texlive-xetex texlive-latex-extra pandoc

```

```

!jupyter nbconvert --to pdf 'Tu_notebook.ipynb'

```

Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:

- dvisvgm fonts-droid-fallback fonts-lato fonts-lmodern fonts-noto-mono fonts-texgyre
- fonts-urw-base35 libapache-pom-java libcbmark-gfm-extensions0.29.0.gfm.3
- libcbmark-gfm0.29.0.gfm.3
- libcommons-logging-java libcommons-parent-java libfontbox-java libfontenc1
- libgs9 libgs9-common
- libidn12 libijs-0.35 libjbig2dec0 libkpathsea6 libpdfbox-java libptexenc1
- libruby3.0 libsynchronet2
- libteckit0 libtexlua53 libtexluajit2 libwoff1 libzzip-0-13 lmodern pandoc-data
- poppler-data
- preview-latex-style rake ruby ruby-net-telnet ruby-rubygems ruby-webrick ruby-xmlrpc ruby3.0
- rubygems-integration tlutils teckit tex-common tex-gyre texlive-base texlive-binaries
- texlive-fonts-recommended texlive-latex-base texlive-latex-recommended
- texlive-pictures
- texlive-plain-generic tipa xfonts-encodings xfonts-utils

Suggested packages:

- fonts-noto fonts-freefont-otf | fonts-freefont-ttf libavalon-framework-java
- libcommons-logging-java-doc libexcalibur-logkit-java liblog4j1.2-java texlive-luatex
- pandoc-citeproc context wkhtmltopdf librsvg2-bin groff ghc nodejs php python
- libjs-mathjax
- libjs-katex citation-style-language-styles poppler-utils ghostscript fonts-japanese-mincho
- | fonts-ipafont-mincho fonts-japanese-gothic | fonts-ipafont-gothic fonts-arphic-ukai
- fonts-arphic-uming fonts-nanum ri ruby-dev bundler debhelper gv | postscript-viewer perl-tk xpdf
- | pdf-viewer xzdec texlive-fonts-recommended-doc texlive-latex-base-doc
- python3-pygments
- icc-profiles libfile-which-perl libspreadsheet-parseexcel-perl texlive-latex-extra-doc
- texlive-latex-recommended-doc texlive-pstricks dot2tex prerex texlive-pictures-doc vprerex
- default-jre-headless tipa-doc

The following NEW packages will be installed:

- dvisvgm fonts-droid-fallback fonts-lato fonts-lmodern fonts-noto-mono fonts-texgyre
- fonts-urw-base35 libapache-pom-java libcbmark-gfm-extensions0.29.0.gfm.3
- libcbmark-gfm0.29.0.gfm.3
- libcommons-logging-java libcommons-parent-java libfontbox-java libfontenc1
- libgs9 libgs9-common
- libidn12 libijs-0.35 libjbig2dec0 libkpathsea6 libpdfbox-java libptexenc1

```

libruby3.0 libsynctex2
  libteckit0 libtexlua53 libtexluaajit2 libwoff1 libzzip-0-13 lmodern pandoc
pandoc-data
  poppler-data preview-latex-style rake ruby ruby-net-telnet ruby-rubygems ruby-
webrick ruby-xmlrpc
  ruby3.0 rubygems-integration tlutils teckit tex-common tex-gyre texlive
texlive-base
  texlive-binaries texlive-fonts-recommended texlive-latex-base texlive-latex-
extra
  texlive-latex-recommended texlive-pictures texlive-plain-generic texlive-xetex
tipa
  xfonts-encodings xfonts-utils
0 upgraded, 59 newly installed, 0 to remove and 49 not upgraded.
Need to get 202 MB of archives.
After this operation, 728 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-droid-fallback all
1:6.0.1r16-1.1build1 [1,805 kB]
Get:2 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-lato all 2.0-2.1
[2,696 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy/main amd64 poppler-data all
0.4.11-1 [2,171 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tex-common all 6.17
[33.7 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-urw-base35 all
20200910-1 [6,367 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgs9-common
all 9.55.0~dfsg1-0ubuntu5.9 [752 kB]
Get:7 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libidn12 amd64
1.38-4ubuntu1 [60.0 kB]
Get:8 http://archive.ubuntu.com/ubuntu jammy/main amd64 libijs-0.35 amd64
0.35-15build2 [16.5 kB]
Get:9 http://archive.ubuntu.com/ubuntu jammy/main amd64 libjbig2dec0 amd64
0.19-3build2 [64.7 kB]
Get:10 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libgs9 amd64
9.55.0~dfsg1-0ubuntu5.9 [5,033 kB]
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amd64 2021.20210626.59705-1ubuntu0.2 [60.4 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/main amd64 libwoff1 amd64
1.0.2-1build4 [45.2 kB]
Get:13 http://archive.ubuntu.com/ubuntu jammy/universe amd64 dvisvgm amd64
2.13.1-1 [1,221 kB]
Get:14 http://archive.ubuntu.com/ubuntu jammy/universe amd64 fonts-lmodern all
2.004.5-6.1 [4,532 kB]
Get:15 http://archive.ubuntu.com/ubuntu jammy/main amd64 fonts-noto-mono all
20201225-1build1 [397 kB]
Get:16 http://archive.ubuntu.com/ubuntu jammy/universe amd64 fonts-texgyre all
20180621-3.1 [10.2 MB]
Get:17 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libapache-pom-java

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all 18-1 [4,720 B]
 Get:18 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 libcmark-gfm0.29.0.gfm.3 amd64 0.29.0.gfm.3-3 [115 kB]
 Get:19 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 libcmark-gfm-extensions0.29.0.gfm.3 amd64 0.29.0.gfm.3-3 [25.1 kB]
 Get:20 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 libcommons-parent-java all 43-1 [10.8 kB]
 Get:21 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 libcommons-logging-java all 1.2-2 [60.3 kB]
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 Get:34 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 libteckit0 amd64 2.5.11+ds1-1 [421 kB]
 Get:35 <http://archive.ubuntu.com/ubuntu> jammy-updates/main amd64 libtexlua53 amd64 2021.20210626.59705-1ubuntu0.2 [120 kB]
 Get:36 <http://archive.ubuntu.com/ubuntu> jammy-updates/main amd64 libtexluajit2 amd64 2021.20210626.59705-1ubuntu0.2 [267 kB]
 Get:37 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 libzip-0-13 amd64 0.13.72+dfsg.1-1.1 [27.0 kB]
 Get:38 <http://archive.ubuntu.com/ubuntu> jammy/main amd64 xfonts-encodings all 1:1.0.5-0ubuntu2 [578 kB]
 Get:39 <http://archive.ubuntu.com/ubuntu> jammy/main amd64 xfonts-utils amd64 1:7.7+6build2 [94.6 kB]
 Get:40 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 lmodern all 2.004.5-6.1 [9,471 kB]
 Get:41 <http://archive.ubuntu.com/ubuntu> jammy/universe amd64 pandoc-data all

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2.9.2.1-3ubuntu2 [81.8 kB]
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2.9.2.1-3ubuntu2 [20.3 MB]
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all 12.2-1ubuntu1 [185 kB]
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2.5.11+ds1-1 [699 kB]
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20180621-3.1 [6,209 kB]
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binaries amd64 2021.20210626.59705-1ubuntu0.2 [9,860 kB]
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2021.20220204-1 [21.0 MB]
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recommended all 2021.20220204-1 [4,972 kB]
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all 2021.20220204-1 [1,128 kB]
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recommended all 2021.20220204-1 [14.4 MB]
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1:1.8.16-2 [207 kB]
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all 2021.20220204-1 [8,720 kB]
Get:56 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-latex-extra
all 2021.20220204-1 [13.9 MB]
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generic all 2021.20220204-1 [27.5 MB]
Get:58 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tipa all 2:1.3-21
[2,967 kB]
Get:59 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-xetex all
2021.20220204-1 [12.4 MB]
Fetched 202 MB in 5s (37.3 MB/s)
Extracting templates from packages: 100%
Preconfiguring packages ...
Selecting previously unselected package fonts-droid-fallback.
(Reading database ... 123620 files and directories currently installed.)
Preparing to unpack .../00-fonts-droid-fallback_1%3a6.0.1r16-1.1build1_all.deb
...
Unpacking fonts-droid-fallback (1:6.0.1r16-1.1build1) ...
Selecting previously unselected package fonts-lato.
Preparing to unpack .../01-fonts-lato_2.0-2.1_all.deb ...
Unpacking fonts-lato (2.0-2.1) ...

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Selecting previously unselected package poppler-data.
Preparing to unpack .../02-poppler-data_0.4.11-1_all.deb ...
Unpacking poppler-data (0.4.11-1) ...
Selecting previously unselected package tex-common.
Preparing to unpack .../03-tex-common_6.17_all.deb ...
Unpacking tex-common (6.17) ...
Selecting previously unselected package fonts-urw-base35.
Preparing to unpack .../04-fonts-urw-base35_20200910-1_all.deb ...
Unpacking fonts-urw-base35 (20200910-1) ...
Selecting previously unselected package libgs9-common.
Preparing to unpack .../05-libgs9-common_9.55.0~dfsg1-0ubuntu5.9_all.deb ...
Unpacking libgs9-common (9.55.0~dfsg1-0ubuntu5.9) ...
Selecting previously unselected package libidn12:amd64.
Preparing to unpack .../06-libidn12_1.38-4ubuntu1_amd64.deb ...
Unpacking libidn12:amd64 (1.38-4ubuntu1) ...
Selecting previously unselected package libijs-0.35:amd64.
Preparing to unpack .../07-libijs-0.35_0.35-15build2_amd64.deb ...
Unpacking libijs-0.35:amd64 (0.35-15build2) ...
Selecting previously unselected package libjbig2dec0:amd64.
Preparing to unpack .../08-libjbig2dec0_0.19-3build2_amd64.deb ...
Unpacking libjbig2dec0:amd64 (0.19-3build2) ...
Selecting previously unselected package libgs9:amd64.
Preparing to unpack .../09-libgs9_9.55.0~dfsg1-0ubuntu5.9_amd64.deb ...
Unpacking libgs9:amd64 (9.55.0~dfsg1-0ubuntu5.9) ...
Selecting previously unselected package libkpathsea6:amd64.
Preparing to unpack .../10-libkpathsea6_2021.20210626.59705-1ubuntu0.2_amd64.deb
...
Unpacking libkpathsea6:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Selecting previously unselected package libwoff1:amd64.
Preparing to unpack .../11-libwoff1_1.0.2-1build4_amd64.deb ...
Unpacking libwoff1:amd64 (1.0.2-1build4) ...
Selecting previously unselected package dvisvgm.
Preparing to unpack .../12-dvisvgm_2.13.1-1_amd64.deb ...
Unpacking dvisvgm (2.13.1-1) ...
Selecting previously unselected package fonts-lmodern.
Preparing to unpack .../13-fonts-lmodern_2.004.5-6.1_all.deb ...
Unpacking fonts-lmodern (2.004.5-6.1) ...
Selecting previously unselected package fonts-noto-mono.
Preparing to unpack .../14-fonts-noto-mono_20201225-1build1_all.deb ...
Unpacking fonts-noto-mono (20201225-1build1) ...
Selecting previously unselected package fonts-texgyre.
Preparing to unpack .../15-fonts-texgyre_20180621-3.1_all.deb ...
Unpacking fonts-texgyre (20180621-3.1) ...
Selecting previously unselected package libapache-pom-java.
Preparing to unpack .../16-libapache-pom-java_18-1_all.deb ...
Unpacking libapache-pom-java (18-1) ...
Selecting previously unselected package libcmark-gfm0.29.0.gfm.3:amd64.
Preparing to unpack .../17-libcmark-gfm0.29.0.gfm.3_0.29.0.gfm.3-3_amd64.deb ...

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Unpacking libcmark-gfm0.29.0.gfm.3:amd64 (0.29.0.gfm.3-3) ...
Selecting previously unselected package libcmark-gfm-
extensions0.29.0.gfm.3:amd64.
Preparing to unpack .../18-libcmark-gfm-
extensions0.29.0.gfm.3_0.29.0.gfm.3-3_amd64.deb ...
Unpacking libcmark-gfm-extensions0.29.0.gfm.3:amd64 (0.29.0.gfm.3-3) ...
Selecting previously unselected package libcommons-parent-java.
Preparing to unpack .../19-libcommons-parent-java_43-1_all.deb ...
Unpacking libcommons-parent-java (43-1) ...
Selecting previously unselected package libcommons-logging-java.
Preparing to unpack .../20-libcommons-logging-java_1.2-2_all.deb ...
Unpacking libcommons-logging-java (1.2-2) ...
Selecting previously unselected package libfontenc1:amd64.
Preparing to unpack .../21-libfontenc1_1%3a1.1.4-1build3_amd64.deb ...
Unpacking libfontenc1:amd64 (1:1.1.4-1build3) ...
Selecting previously unselected package libptexenc1:amd64.
Preparing to unpack .../22-libptexenc1_2021.20210626.59705-1ubuntu0.2_amd64.deb
...
Unpacking libptexenc1:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Selecting previously unselected package rubygems-integration.
Preparing to unpack .../23-rubygems-integration_1.18_all.deb ...
Unpacking rubygems-integration (1.18) ...
Selecting previously unselected package ruby3.0.
Preparing to unpack .../24-ruby3.0_3.0.2-7ubuntu2.7_amd64.deb ...
Unpacking ruby3.0 (3.0.2-7ubuntu2.7) ...
Selecting previously unselected package ruby-rubygems.
Preparing to unpack .../25-ruby-rubygems_3.3.5-2_all.deb ...
Unpacking ruby-rubygems (3.3.5-2) ...
Selecting previously unselected package ruby.
Preparing to unpack .../26-ruby_1%3a3.0~exp1_amd64.deb ...
Unpacking ruby (1:3.0~exp1) ...
Selecting previously unselected package rake.
Preparing to unpack .../27-rake_13.0.6-2_all.deb ...
Unpacking rake (13.0.6-2) ...
Selecting previously unselected package ruby-net-telnet.
Preparing to unpack .../28-ruby-net-telnet_0.1.1-2_all.deb ...
Unpacking ruby-net-telnet (0.1.1-2) ...
Selecting previously unselected package ruby-webrick.
Preparing to unpack .../29-ruby-webrick_1.7.0-3_all.deb ...
Unpacking ruby-webrick (1.7.0-3) ...
Selecting previously unselected package ruby-xmlrpc.
Preparing to unpack .../30-ruby-xmlrpc_0.3.2-1ubuntu0.1_all.deb ...
Unpacking ruby-xmlrpc (0.3.2-1ubuntu0.1) ...
Selecting previously unselected package libruby3.0:amd64.
Preparing to unpack .../31-libruby3.0_3.0.2-7ubuntu2.7_amd64.deb ...
Unpacking libruby3.0:amd64 (3.0.2-7ubuntu2.7) ...
Selecting previously unselected package libsyntax2:amd64.
Preparing to unpack .../32-libsyntax2_2021.20210626.59705-1ubuntu0.2_amd64.deb

```

```

...
Unpacking libsynctex2:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Selecting previously unselected package libteckit0:amd64.
Preparing to unpack .../33-libteckit0_2.5.11+ds1-1_amd64.deb ...
Unpacking libteckit0:amd64 (2.5.11+ds1-1) ...
Selecting previously unselected package libtexlua53:amd64.
Preparing to unpack .../34-libtexlua53_2021.20210626.59705-1ubuntu0.2_amd64.deb
...
Unpacking libtexlua53:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Selecting previously unselected package libtexluajit2:amd64.
Preparing to unpack
.../35-libtexluajit2_2021.20210626.59705-1ubuntu0.2_amd64.deb ...
Unpacking libtexluajit2:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Selecting previously unselected package libzzip-0-13:amd64.
Preparing to unpack .../36-libzzip-0-13_0.13.72+dfsg.1-1.1_amd64.deb ...
Unpacking libzzip-0-13:amd64 (0.13.72+dfsg.1-1.1) ...
Selecting previously unselected package xfonts-encodings.
Preparing to unpack .../37-xfonts-encodings_1%3a1.0.5-0ubuntu2_all.deb ...
Unpacking xfonts-encodings (1:1.0.5-0ubuntu2) ...
Selecting previously unselected package xfonts-utils.
Preparing to unpack .../38-xfonts-utils_1%3a7.7+6build2_amd64.deb ...
Unpacking xfonts-utils (1:7.7+6build2) ...
Selecting previously unselected package lmodern.
Preparing to unpack .../39-lmodern_2.004.5-6.1_all.deb ...
Unpacking lmodern (2.004.5-6.1) ...
Selecting previously unselected package pandoc-data.
Preparing to unpack .../40-pandoc-data_2.9.2.1-3ubuntu2_all.deb ...
Unpacking pandoc-data (2.9.2.1-3ubuntu2) ...
Selecting previously unselected package pandoc.
Preparing to unpack .../41-pandoc_2.9.2.1-3ubuntu2_amd64.deb ...
Unpacking pandoc (2.9.2.1-3ubuntu2) ...
Selecting previously unselected package preview-latex-style.
Preparing to unpack .../42-preview-latex-style_12.2-1ubuntu1_all.deb ...
Unpacking preview-latex-style (12.2-1ubuntu1) ...
Selecting previously unselected package t1utils.
Preparing to unpack .../43-t1utils_1.41-4build2_amd64.deb ...
Unpacking t1utils (1.41-4build2) ...
Selecting previously unselected package teckit.
Preparing to unpack .../44-teckit_2.5.11+ds1-1_amd64.deb ...
Unpacking teckit (2.5.11+ds1-1) ...
Selecting previously unselected package tex-gyre.
Preparing to unpack .../45-tex-gyre_20180621-3.1_all.deb ...
Unpacking tex-gyre (20180621-3.1) ...
Selecting previously unselected package texlive-binaries.
Preparing to unpack .../46-texlive-
binaries_2021.20210626.59705-1ubuntu0.2_amd64.deb ...
Unpacking texlive-binaries (2021.20210626.59705-1ubuntu0.2) ...
Selecting previously unselected package texlive-base.

```

```

Preparing to unpack .../47-texlive-base_2021.20220204-1_all.deb ...
Unpacking texlive-base (2021.20220204-1) ...
Selecting previously unselected package texlive-fonts-recommended.
Preparing to unpack .../48-texlive-fonts-recommended_2021.20220204-1_all.deb ...
Unpacking texlive-fonts-recommended (2021.20220204-1) ...
Selecting previously unselected package texlive-latex-base.
Preparing to unpack .../49-texlive-latex-base_2021.20220204-1_all.deb ...
Unpacking texlive-latex-base (2021.20220204-1) ...
Selecting previously unselected package texlive-latex-recommended.
Preparing to unpack .../50-texlive-latex-recommended_2021.20220204-1_all.deb ...
Unpacking texlive-latex-recommended (2021.20220204-1) ...
Selecting previously unselected package texlive.
Preparing to unpack .../51-texlive_2021.20220204-1_all.deb ...
Unpacking texlive (2021.20220204-1) ...
Selecting previously unselected package libfontbox-java.
Preparing to unpack .../52-libfontbox-java_1%3a1.8.16-2_all.deb ...
Unpacking libfontbox-java (1:1.8.16-2) ...
Selecting previously unselected package libpdfbox-java.
Preparing to unpack .../53-libpdfbox-java_1%3a1.8.16-2_all.deb ...
Unpacking libpdfbox-java (1:1.8.16-2) ...
Selecting previously unselected package texlive-pictures.
Preparing to unpack .../54-texlive-pictures_2021.20220204-1_all.deb ...
Unpacking texlive-pictures (2021.20220204-1) ...
Selecting previously unselected package texlive-latex-extra.
Preparing to unpack .../55-texlive-latex-extra_2021.20220204-1_all.deb ...
Unpacking texlive-latex-extra (2021.20220204-1) ...
Selecting previously unselected package texlive-plain-generic.
Preparing to unpack .../56-texlive-plain-generic_2021.20220204-1_all.deb ...
Unpacking texlive-plain-generic (2021.20220204-1) ...
Selecting previously unselected package tipa.
Preparing to unpack .../57-tipa_2%3a1.3-21_all.deb ...
Unpacking tipa (2:1.3-21) ...
Selecting previously unselected package texlive-xetex.
Preparing to unpack .../58-texlive-xetex_2021.20220204-1_all.deb ...
Unpacking texlive-xetex (2021.20220204-1) ...
Setting up fonts-lato (2.0-2.1) ...
Setting up fonts-noto-mono (20201225-1build1) ...
Setting up libwoff1:amd64 (1.0.2-1build4) ...
Setting up libtexlua53:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Setting up libijs-0.35:amd64 (0.35-15build2) ...
Setting up libtexluajit2:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Setting up libfontbox-java (1:1.8.16-2) ...
Setting up rubygems-integration (1.18) ...
Setting up libzip-0-13:amd64 (0.13.72+dfsg.1-1.1) ...
Setting up fonts-urw-base35 (20200910-1) ...
Setting up poppler-data (0.4.11-1) ...
Setting up tex-common (6.17) ...
update-language: texlive-base not installed and configured, doing nothing!

```

```

Setting up libfontenc1:amd64 (1:1.1.4-1build3) ...
Setting up libjbig2dec0:amd64 (0.19-3build2) ...
Setting up libteckit0:amd64 (2.5.11+ds1-1) ...
Setting up libapache-pom-java (18-1) ...
Setting up ruby-net-telnet (0.1.1-2) ...
Setting up xfonts-encodings (1:1.0.5-0ubuntu2) ...
Setting up t1utils (1.41-4build2) ...
Setting up libidn12:amd64 (1.38-4ubuntu1) ...
Setting up fonts-texgyre (20180621-3.1) ...
Setting up libkpathsea6:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Setting up ruby-webrick (1.7.0-3) ...
Setting up libcmark-gfm0.29.0.gfm.3:amd64 (0.29.0.gfm.3-3) ...
Setting up fonts-lmodern (2.004.5-6.1) ...
Setting up libcmark-gfm-extensions0.29.0.gfm.3:amd64 (0.29.0.gfm.3-3) ...
Setting up fonts-droid-fallback (1:6.0.1r16-1.1build1) ...
Setting up pandoc-data (2.9.2.1-3ubuntu2) ...
Setting up ruby-xmlrpc (0.3.2-1ubuntu0.1) ...
Setting up libsynctex2:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Setting up libgs9-common (9.55.0~dfsg1-0ubuntu5.9) ...
Setting up teckit (2.5.11+ds1-1) ...
Setting up libpdfbox-java (1:1.8.16-2) ...
Setting up libgs9:amd64 (9.55.0~dfsg1-0ubuntu5.9) ...
Setting up preview-latex-style (12.2-1ubuntu1) ...
Setting up libcommons-parent-java (43-1) ...
Setting up dvisvgm (2.13.1-1) ...
Setting up libcommons-logging-java (1.2-2) ...
Setting up xfonts-utils (1:7.7+6build2) ...
Setting up libptexenc1:amd64 (2021.20210626.59705-1ubuntu0.2) ...
Setting up pandoc (2.9.2.1-3ubuntu2) ...
Setting up texlive-binaries (2021.20210626.59705-1ubuntu0.2) ...
update-alternatives: using /usr/bin/xdvi-xaw to provide /usr/bin/xdvi.bin
(xdvi.bin) in auto mode
update-alternatives: using /usr/bin/bibtex.original to provide /usr/bin/bibtex
(bibtex) in auto mode
Setting up lmodern (2.004.5-6.1) ...
Setting up texlive-base (2021.20220204-1) ...
/usr/bin/ucfr
/usr/bin/ucfr
/usr/bin/ucfr
/usr/bin/ucfr
mktexlsr: Updating /var/lib/texmf/ls-R-TEXLIVEDIST...
mktexlsr: Updating /var/lib/texmf/ls-R-TEXMFMAIN...
mktexlsr: Updating /var/lib/texmf/ls-R...
mktexlsr: Done.
tl-paper: setting paper size for dvips to a4:
/var/lib/texmf/dvips/config/config-paper.ps
tl-paper: setting paper size for dvipdfmx to a4:
/var/lib/texmf/dvipdfmx/dvipdfmx-paper.cfg

```

```

tl-paper: setting paper size for xdvi to a4: /var/lib/texmf/xdvi/XDvi-paper
tl-paper: setting paper size for pdftex to a4: /var/lib/texmf/tex/generic/tex-
ini-files/pdftexconfig.tex
Setting up tex-gyre (20180621-3.1) ...
Setting up texlive-plain-generic (2021.20220204-1) ...
Setting up texlive-latex-base (2021.20220204-1) ...
Setting up texlive-latex-recommended (2021.20220204-1) ...
Setting up texlive-pictures (2021.20220204-1) ...
Setting up texlive-fonts-recommended (2021.20220204-1) ...
Setting up tipa (2:1.3-21) ...
Setting up texlive (2021.20220204-1) ...
Setting up texlive-latex-extra (2021.20220204-1) ...
Setting up texlive-xetex (2021.20220204-1) ...
Setting up rake (13.0.6-2) ...
Setting up libruby3.0:amd64 (3.0.2-7ubuntu2.7) ...
Setting up ruby3.0 (3.0.2-7ubuntu2.7) ...
Setting up ruby (1:3.0~exp1) ...
Setting up ruby-rubygems (3.3.5-2) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for fontconfig (2.13.1-4.2ubuntu5) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_0.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc_proxy.so.2 is not a symbolic
link

/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbbind_2_5.so.3 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libtbbmalloc.so.2 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_level_zero.so.0 is not a
symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_loader.so.0 is not a symbolic link

/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic
link

Processing triggers for tex-common (6.17) ...
Running updmap-sys. This may take some time... done.
Running mktexlsr /var/lib/texmf ... done.
Building format(s) --all.
    This may take some time... done.
[NbConvertApp] WARNING | pattern 'Tu_notebook.ipynb' matched no files

```


This application is used to convert notebook files (*.ipynb)
to various other formats.

WARNING: THE COMMANDLINE INTERFACE MAY CHANGE IN FUTURE RELEASES.

Options

=====

The options below are convenience aliases to configurable class-options,
as listed in the "Equivalent to" description-line of the aliases.

To see all configurable class-options for some <cmd>, use:

<cmd> --help-all

--debug

set log level to logging.DEBUG (maximize logging output)

Equivalent to: [--Application.log_level=10]

--show-config

Show the application's configuration (human-readable format)

Equivalent to: [--Application.show_config=True]

--show-config-json

Show the application's configuration (json format)

Equivalent to: [--Application.show_config_json=True]

--generate-config

generate default config file

Equivalent to: [--JupyterApp.generate_config=True]

-y

Answer yes to any questions instead of prompting.

Equivalent to: [--JupyterApp.answer_yes=True]

--execute

Execute the notebook prior to export.

Equivalent to: [--ExecutePreprocessor.enabled=True]

--allow-errors

Continue notebook execution even if one of the cells throws an error and
include the error message in the cell output (the default behaviour is to abort
conversion). This flag is only relevant if '--execute' was specified, too.

Equivalent to: [--ExecutePreprocessor.allow_errors=True]

--stdin

read a single notebook file from stdin. Write the resulting notebook with
default basename 'notebook.*'

Equivalent to: [--NbConvertApp.from_stdin=True]

--stdout

Write notebook output to stdout instead of files.

Equivalent to: [--NbConvertApp.writer_class=StdoutWriter]

--inplace

Run nbconvert in place, overwriting the existing notebook (only
relevant when converting to notebook format)

Equivalent to: [--NbConvertApp.use_output_suffix=False]

--NbConvertApp.export_format=notebook --FilesWriter.build_directory=]

--clear-output

Clear output of current file and save in place,
overwriting the existing notebook.

Equivalent to: `--NbConvertApp.use_output_suffix=False`
`--NbConvertApp.export_format=notebook --FilesWriter.build_directory=`
`--ClearOutputPreprocessor.enabled=True]`

`--no-prompt`
Exclude input and output prompts from converted document.

Equivalent to: `--TemplateExporter.exclude_input_prompt=True`
`--TemplateExporter.exclude_output_prompt=True]`

`--no-input`
Exclude input cells and output prompts from converted document.

This mode is ideal for generating code-free reports.

Equivalent to: `--TemplateExporter.exclude_output_prompt=True`
`--TemplateExporter.exclude_input=True`
`--TemplateExporter.exclude_input_prompt=True]`

`--allow-chromium-download`
Whether to allow downloading chromium if no suitable version is found on the system.

Equivalent to: `--WebPDFExporter.allow_chromium_download=True]`

`--disable-chromium-sandbox`
Disable chromium security sandbox when converting to PDF..

Equivalent to: `--WebPDFExporter.disable_sandbox=True]`

`--show-input`
Shows code input. This flag is only useful for dejavu users.

Equivalent to: `--TemplateExporter.exclude_input=False]`

`--embed-images`
Embed the images as base64 dataurls in the output. This flag is only useful for the HTML/WebPDF/Slides exports.

Equivalent to: `--HTMLExporter.embed_images=True]`

`--sanitize-html`
Whether the HTML in Markdown cells and cell outputs should be sanitized..

Equivalent to: `--HTMLExporter.sanitize_html=True]`

`--log-level=<Enum>`
Set the log level by value or name.

Choices: any of [0, 10, 20, 30, 40, 50, 'DEBUG', 'INFO', 'WARN', 'ERROR', 'CRITICAL']

Default: 30

Equivalent to: `--Application.log_level]`

`--config=<Unicode>`
Full path of a config file.

Default: ''

Equivalent to: `--JupyterApp.config_file]`

`--to=<Unicode>`
The export format to be used, either one of the built-in formats
['asciidoc', 'custom', 'html', 'latex', 'markdown', 'notebook',
'pdf', 'python', 'rst', 'script', 'slides', 'webpdf']
or a dotted object name that represents the import path for an
```Exporter``` class

Default: ''  
 Equivalent to: [--NbConvertApp.export\_format]  
 --template=<Unicode>  
 Name of the template to use  
 Default: ''  
 Equivalent to: [--TemplateExporter.template\_name]  
 --template-file=<Unicode>  
 Name of the template file to use  
 Default: None  
 Equivalent to: [--TemplateExporter.template\_file]  
 --theme=<Unicode>  
 Template specific theme(e.g. the name of a JupyterLab CSS theme distributed as prebuilt extension for the lab template)  
 Default: 'light'  
 Equivalent to: [--HTMLExporter.theme]  
 --sanitize\_html=<Bool>  
 Whether the HTML in Markdown cells and cell outputs should be sanitized. This should be set to True by nbviewer or similar tools.  
 Default: False  
 Equivalent to: [--HTMLExporter.sanitize\_html]  
 --writer=<DottedObjectName>  
 Writer class used to write the  
 results of the conversion  
 Default: 'FilesWriter'  
 Equivalent to: [--NbConvertApp.writer\_class]  
 --post=<DottedOrNone>  
 PostProcessor class used to write the  
 results of the conversion  
 Default: ''  
 Equivalent to: [--NbConvertApp.postprocessor\_class]  
 --output=<Unicode>  
 overwrite base name use for output files.  
 can only be used when converting one notebook at a time.  
 Default: ''  
 Equivalent to: [--NbConvertApp.output\_base]  
 --output-dir=<Unicode>  
 Directory to write output(s) to. Defaults  
 to output to the directory of each notebook.  
 To recover  
 previous default behaviour (outputting to the  
 current  
 working directory) use . as the flag value.  
 Default: ''  
 Equivalent to: [--FilesWriter.build\_directory]  
 --reveal-prefix=<Unicode>  
 The URL prefix for reveal.js (version 3.x).  
 This defaults to the reveal CDN, but can be any url pointing to a  
 copy

of reveal.js.  
 For speaker notes to work, this must be a relative path to a local copy of reveal.js: e.g., "reveal.js".  
 If a relative path is given, it must be a subdirectory of the current directory (from which the server is run).  
 See the usage documentation  
 (<https://nbconvert.readthedocs.io/en/latest/usage.html#reveal-js-html-slideshow>)  
 for more details.  
 Default: ''  
 Equivalent to: [--SlidesExporter.reveal\_url\_prefix]  
 --nbformat=<Enum>  
 The nbformat version to write.  
 Use this to downgrade notebooks.  
 Choices: any of [1, 2, 3, 4]  
 Default: 4  
 Equivalent to: [--NotebookExporter.nbformat\_version]

## Examples

-----

The simplest way to use nbconvert is

```
> jupyter nbconvert mynotebook.ipynb --to html
```

Options include ['asciidoc', 'custom', 'html', 'latex', 'markdown', 'notebook', 'pdf', 'python', 'rst', 'script', 'slides', 'webpdf'].

```
> jupyter nbconvert --to latex mynotebook.ipynb
```

Both HTML and LaTeX support multiple output templates. LaTeX includes

'base', 'article' and 'report'. HTML includes 'basic', 'lab' and 'classic'. You can specify the flavor of the format used.

```
> jupyter nbconvert --to html --template lab mynotebook.ipynb
```

You can also pipe the output to stdout, rather than a file

```
> jupyter nbconvert mynotebook.ipynb --stdout
```

PDF is generated via latex

```
> jupyter nbconvert mynotebook.ipynb --to pdf
```

You can get (and serve) a Reveal.js-powered slideshow

```
> jupyter nbconvert myslides.ipynb --to slides --post serve
```

Multiple notebooks can be given at the command line in a couple of different ways:

```
> jupyter nbconvert notebook*.ipynb
> jupyter nbconvert notebook1.ipynb notebook2.ipynb
```

or you can specify the notebooks list in a config file, containing::

```
c.NbConvertApp.notebooks = ["my_notebook.ipynb"]
```

```
> jupyter nbconvert --config mycfg.py
```

To see all available configurables, use `--help-all`.

```
[130]: !apt-get install texlive texlive-xetex texlive-fonts-recommended
 ↪ texlive-plain-generic pandoc

 !jupyter nbconvert --to pdf 'Tu_notebook.ipynb'
```

```
[NbConvertApp] WARNING | pattern 'Tu_notebook.ipynb' matched no files
This application is used to convert notebook files (*.ipynb)
to various other formats.
```

WARNING: THE COMMANDLINE INTERFACE MAY CHANGE IN FUTURE RELEASES.

## Options

=====

The options below are convenience aliases to configurable class-options, as listed in the "Equivalent to" description-line of the aliases.

To see all configurable class-options for some <cmd>, use:

```
<cmd> --help-all
```

### --debug

set log level to logging.DEBUG (maximize logging output)

Equivalent to: [--Application.log\_level=10]

### --show-config

Show the application's configuration (human-readable format)

Equivalent to: [--Application.show\_config=True]

### --show-config-json

Show the application's configuration (json format)

Equivalent to: [--Application.show\_config\_json=True]

### --generate-config

generate default config file

Equivalent to: [--JupyterApp.generate\_config=True]

### -y

Answer yes to any questions instead of prompting.

Equivalent to: [--JupyterApp.answer\_yes=True]

--execute

Execute the notebook prior to export.

Equivalent to: [--ExecutePreprocessor.enabled=True]

--allow-errors

Continue notebook execution even if one of the cells throws an error and include the error message in the cell output (the default behaviour is to abort conversion). This flag is only relevant if '--execute' was specified, too.

Equivalent to: [--ExecutePreprocessor.allow\_errors=True]

--stdin

read a single notebook file from stdin. Write the resulting notebook with default basename 'notebook.\*'

Equivalent to: [--NbConvertApp.from\_stdin=True]

--stdout

Write notebook output to stdout instead of files.

Equivalent to: [--NbConvertApp.writer\_class=StdoutWriter]

--inplace

Run nbconvert in place, overwriting the existing notebook (only relevant when converting to notebook format)

Equivalent to: [--NbConvertApp.use\_output\_suffix=False]

--NbConvertApp.export\_format=notebook --FilesWriter.build\_directory=]

--clear-output

Clear output of current file and save in place, overwriting the existing notebook.

Equivalent to: [--NbConvertApp.use\_output\_suffix=False]

--NbConvertApp.export\_format=notebook --FilesWriter.build\_directory=

--ClearOutputPreprocessor.enabled=True]

--no-prompt

Exclude input and output prompts from converted document.

Equivalent to: [--TemplateExporter.exclude\_input\_prompt=True]

--TemplateExporter.exclude\_output\_prompt=True]

--no-input

Exclude input cells and output prompts from converted document.

This mode is ideal for generating code-free reports.

Equivalent to: [--TemplateExporter.exclude\_output\_prompt=True]

--TemplateExporter.exclude\_input=True

--TemplateExporter.exclude\_input\_prompt=True]

--allow-chromium-download

Whether to allow downloading chromium if no suitable version is found on the system.

Equivalent to: [--WebPDFExporter.allow\_chromium\_download=True]

--disable-chromium-sandbox

Disable chromium security sandbox when converting to PDF..

Equivalent to: [--WebPDFExporter.disable\_sandbox=True]

--show-input

Shows code input. This flag is only useful for dejavu users.

Equivalent to: [--TemplateExporter.exclude\_input=False]

--embed-images

Embed the images as base64 dataurls in the output. This flag is only useful for the HTML/WebPDF/Slides exports.

Equivalent to: [--HTMLExporter.embed\_images=True]

--sanitize-html

Whether the HTML in Markdown cells and cell outputs should be sanitized..

Equivalent to: [--HTMLExporter.sanitize\_html=True]

--log-level=<Enum>

Set the log level by value or name.

Choices: any of [0, 10, 20, 30, 40, 50, 'DEBUG', 'INFO', 'WARN', 'ERROR', 'CRITICAL']

Default: 30

Equivalent to: [--Application.log\_level]

--config=<Unicode>

Full path of a config file.

Default: ''

Equivalent to: [--JupyterApp.config\_file]

--to=<Unicode>

The export format to be used, either one of the built-in formats

['asciidoc', 'custom', 'html', 'latex', 'markdown', 'notebook', 'pdf', 'python', 'rst', 'script', 'slides', 'webpdf']

or a dotted object name that represents the import path for an

``Exporter`` class

Default: ''

Equivalent to: [--NbConvertApp.export\_format]

--template=<Unicode>

Name of the template to use

Default: ''

Equivalent to: [--TemplateExporter.template\_name]

--template-file=<Unicode>

Name of the template file to use

Default: None

Equivalent to: [--TemplateExporter.template\_file]

--theme=<Unicode>

Template specific theme(e.g. the name of a JupyterLab CSS theme distributed as prebuilt extension for the lab template)

Default: 'light'

Equivalent to: [--HTMLExporter.theme]

--sanitize\_html=<Bool>

Whether the HTML in Markdown cells and cell outputs should be sanitized.This should be set to True by nbviewer or similar tools.

Default: False

Equivalent to: [--HTMLExporter.sanitize\_html]

--writer=<DottedObjectName>

Writer class used to write the

results of the conversion

Default: 'FilesWriter'

Equivalent to: [--NbConvertApp.writer\_class]

--post=<DottedOrNone>





```
'notebook', 'pdf', 'python', 'rst', 'script', 'slides', 'webpdf'].
```

```
> jupyter nbconvert --to latex mynotebook.ipynb
```

Both HTML and LaTeX support multiple output templates. LaTeX includes

'base', 'article' and 'report'. HTML includes 'basic', 'lab' and 'classic'. You can specify the flavor of the format used.

```
> jupyter nbconvert --to html --template lab mynotebook.ipynb
```

You can also pipe the output to stdout, rather than a file

```
> jupyter nbconvert mynotebook.ipynb --stdout
```

PDF is generated via latex

```
> jupyter nbconvert mynotebook.ipynb --to pdf
```

You can get (and serve) a Reveal.js-powered slideshow

```
> jupyter nbconvert myslides.ipynb --to slides --post serve
```

Multiple notebooks can be given at the command line in a couple of different ways:

```
> jupyter nbconvert notebook*.ipynb
```

```
> jupyter nbconvert notebook1.ipynb notebook2.ipynb
```

or you can specify the notebooks list in a config file, containing::

```
c.NbConvertApp.notebooks = ["my_notebook.ipynb"]
```

```
> jupyter nbconvert --config mycfg.py
```

To see all available configurables, use `--help-all`.