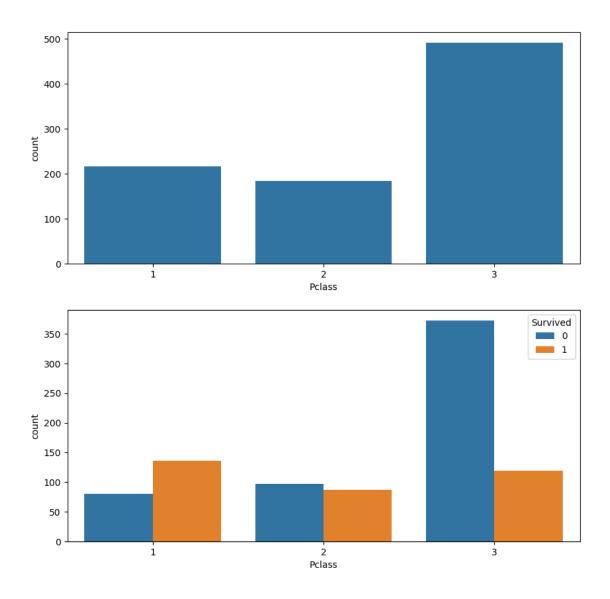
Logistic_Regression_and_Naive_Bayes_Titanic_Survival_Prediction

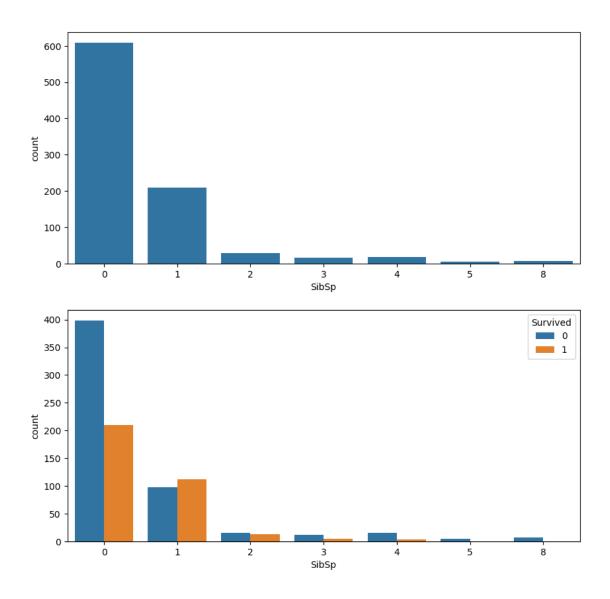
March 19, 2025

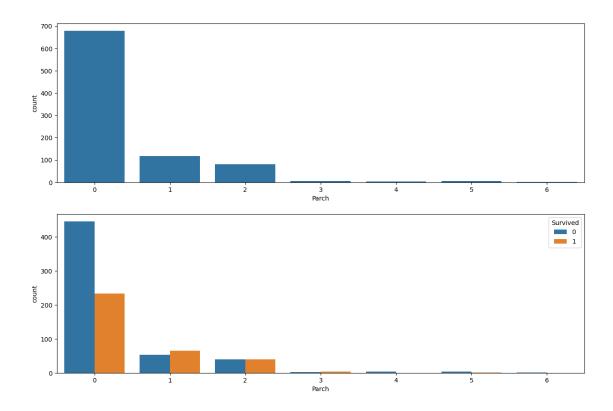
```
[]: import pandas as pd
     import numpy as np
     import matplotlib.pyplot as plt
     import seaborn as sns
[]: # Read the data using pandas dataframe
     titanic_df = pd.read_csv('/content/titanic.csv')
[]: # Show the data head!
     titanic_df.head()
[]:
        PassengerId Survived Pclass
                             0
     0
                  1
                                     3
                  2
                             1
     1
                                      1
                  3
     2
                             1
                                     3
     3
                  4
                             1
                                     1
                  5
                                     3
                                                       Name
                                                                 Sex
                                                                       Age
                                                                            SibSp \
                                   Braund, Mr. Owen Harris
                                                                     22.0
     0
                                                                male
                                                                                 1
     1
        Cumings, Mrs. John Bradley (Florence Briggs Th... female
                                                                    38.0
                                                                               1
     2
                                    Heikkinen, Miss. Laina
                                                              female
                                                                                 0
             Futrelle, Mrs. Jacques Heath (Lily May Peel)
     3
                                                              female
                                                                      35.0
                                                                                 1
     4
                                  Allen, Mr. William Henry
                                                                male
                                                                      35.0
                                                                                 0
        Parch
                          Ticket
                                     Fare Cabin Embarked
     0
            0
                      A/5 21171
                                   7.2500
                                             NaN
                                                        S
                        PC 17599
                                  71.2833
                                                        С
     1
            0
                                             C85
     2
                                                        S
               STON/02. 3101282
                                   7.9250
                                             NaN
                                                        S
     3
                          113803
                                  53.1000
                                            C123
     4
            0
                                                        S
                          373450
                                   8.0500
                                             {\tt NaN}
```

```
[]: # Let's count the number of survivors and non-survivors
     survived_df = titanic_df[titanic_df['Survived'] == 1]
     no_survived_df = titanic_df[titanic_df['Survived'] == 0]
[]: # Count the survived and deceased
     print("Total =", len(titanic_df))
     print("Number of passengers who survived =", len(survived_df))
     print("Percentage Survived =", 1. * len(survived_df) / len(titanic_df) * 100.0, __
      "%")
     print("Number of passengers who did not Survive =", len(no_survived_df))
     print("Percentage who did not survive =", 1. * len(no_survived_df) / __
      \rightarrowlen(titanic_df) * 100.0, "%")
    Total = 891
    Number of passengers who survived = 342
    Percentage Survived = 38.38383838383838 %
    Number of passengers who did not Survive = 549
    Percentage who did not survive = 61.61616161616161 %
[]: # Bar Chart to indicate the number of people who survived based on their class
     # If you are a first class, you have a higher chance of survival
     plt.figure(figsize = [10, 10])
     plt.subplot(211)
     sns.countplot(x = 'Pclass', data = titanic_df)
     plt.subplot(212)
     sns.countplot(x = 'Pclass', hue = 'Survived', data = titanic_df)
```

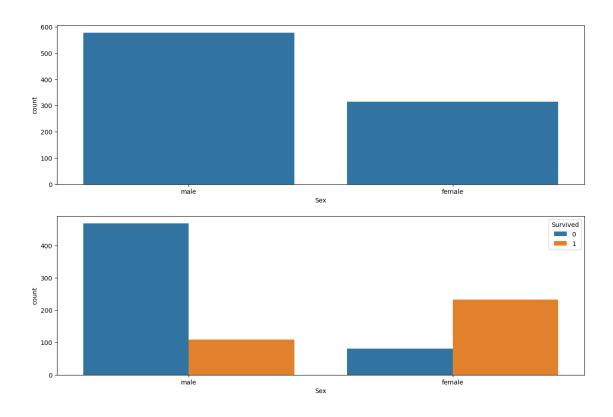


[]: <Axes: xlabel='SibSp', ylabel='count'>

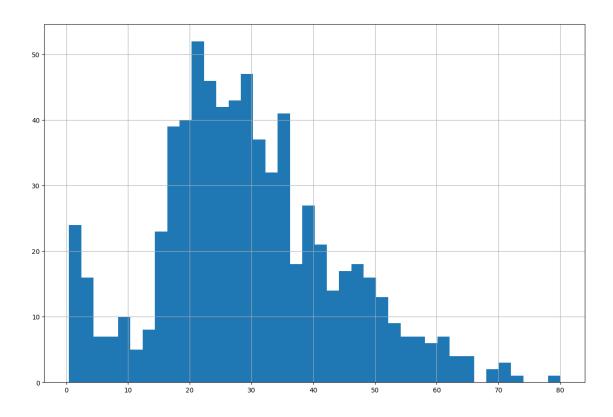




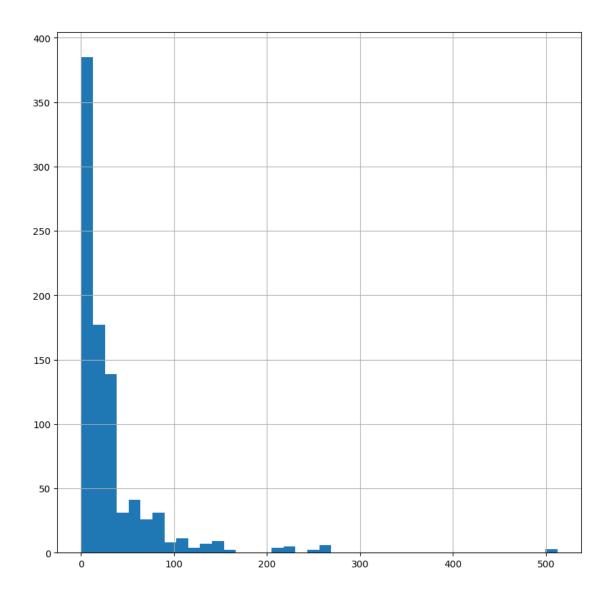
[]: <Axes: xlabel='Sex', ylabel='count'>



```
[]: # Age Histogram
plt.figure(figsize=[15, 10])
titanic_df['Age'].hist(bins = 40)
```

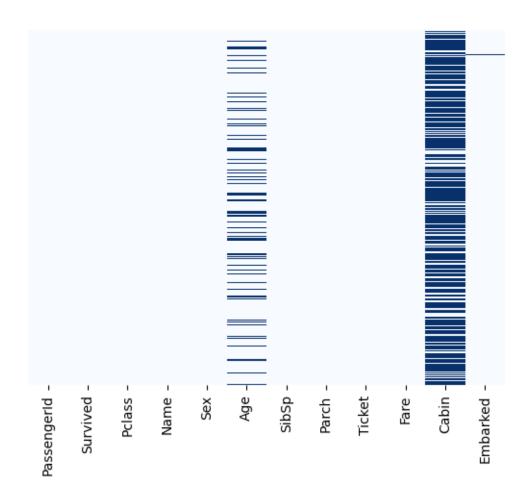


```
[]: # Fare Histogram
plt.figure(figsize=[10, 10])
titanic_df['Fare'].hist(bins = 40)
```



```
[]: # Let's explore which dataset is missing
sns.heatmap(titanic_df.isnull(), yticklabels = False, cbar = False, 

comp="Blues")
```



```
[]: # Let's drop the cabin coloumn and test with inplace = true and false titanic_df.drop('Cabin', axis = 1, inplace = True)
```

```
[]: # Let's drop the embarked, Ticket, passengerID, and Name as well titanic_df.drop(['Name', 'Ticket', 'Embarked', 'PassengerId'], axis = 1, □ → inplace = True)
```

[]: titanic_df

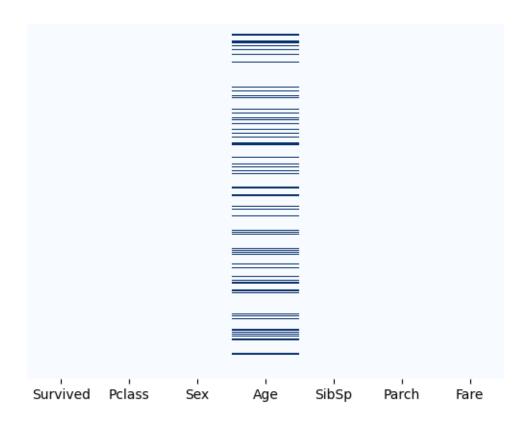
[]:	Survived	Pclass	Sex	Age	SibSp	Parch	Fare
0	0	3	male	22.0	1	0	7.2500
1	1	1	female	38.0	1	0	71.2833
2	1	3	female	26.0	0	0	7.9250
3	1	1	female	35.0	1	0	53.1000
4	0	3	male	35.0	0	0	8.0500
	•••			•••	•••		
886	0	2	male	27.0	0	0	13.0000
887	1	1	female	19.0	0	0	30.0000

```
888
            0
                    3 female
                                                 2 23.4500
                                {\tt NaN}
                                          1
889
            1
                    1
                         male 26.0
                                          0
                                                 0 30.0000
890
                    3
                         male 32.0
                                                    7.7500
            0
```

[891 rows x 7 columns]

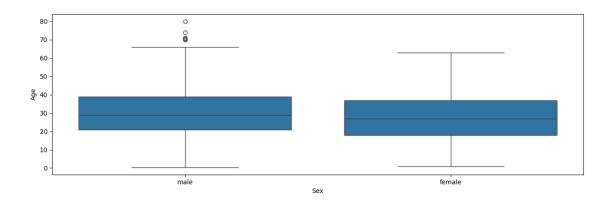
```
[]: # Let's view the data one more time!
sns.heatmap(titanic_df.isnull(), yticklabels = False, cbar = False, 
cmap="Blues")
```

[]: <Axes: >



```
[]: # Let's get the average age for male (~29) and female (~25)
plt.figure(figsize=(15, 10))
plt.subplot(211)
sns.boxplot(x = 'Sex', y = 'Age', data = titanic_df)
```

[]: <Axes: xlabel='Sex', ylabel='Age'>



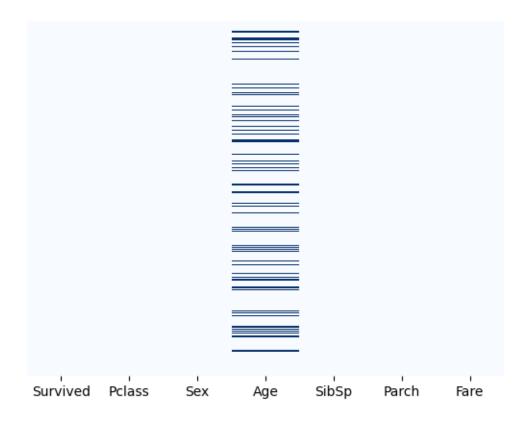
```
[]: def fill_age(data):
    """Fills missing age values based on sex, Male=29, Female=25.

Args:
    data: A pandas Series containing 'Age' and 'Sex' columns.

Returns:
    A pandas Series with filled age values.
    """
    age = data['Age']
    sex = data['Sex']

# Use loc to fill NaN values based on sex
    data.loc[pd.isnull(age) & (sex == 'male'), 'Age'] = 29
    data.loc[pd.isnull(age) & (sex == 'female'), 'Age'] = 25
    return data
```

```
[]: # Let's view the data one more time!
sns.heatmap(titanic_df.isnull(), yticklabels = False, cbar = False, 
cmap="Blues")
```

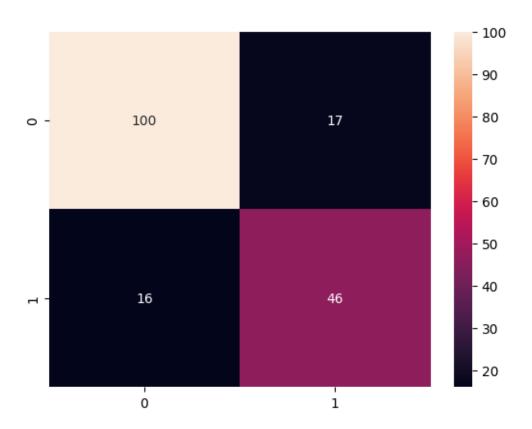


```
[]: # You just need one column only to represent male or female
    pd.get_dummies(titanic_df['Sex'])
[]:
          female
                   male
     0
          False
                   True
     1
            True
                  False
     2
            True
                  False
     3
           True
                 False
     4
           False
                   True
     886
           False
                   True
    887
            True False
     888
            True False
     889
          False
                   True
          False
    890
                   True
     [891 rows x 2 columns]
[]: male = pd.get_dummies(titanic_df['Sex'], drop_first = True)
[]: # first let's drop the embarked and sex
     titanic_df.drop(['Sex'], axis = 1, inplace = True)
```

```
[]: titanic_df
[]:
          Survived Pclass
                                   SibSp
                                            Parch
                               Age
                                                       Fare
                  0
                           3
                              22.0
                                                    7.2500
                                         1
                                                0
                              38.0
     1
                  1
                           1
                                         1
                                                0
                                                   71.2833
     2
                  1
                              26.0
                           3
                                         0
                                                0
                                                    7.9250
     3
                  1
                           1
                              35.0
                                         1
                                                   53.1000
     4
                  0
                              35.0
                                         0
                                                    8.0500
                                                   13.0000
     886
                  0
                           2
                              27.0
                                         0
                                                0
                              19.0
                                                   30.0000
     887
                           1
                                         0
                                                0
                  1
     888
                  0
                           3
                               NaN
                                         1
                                                   23.4500
     889
                  1
                           1
                              26.0
                                         0
                                                   30.0000
                              32.0
     890
                  0
                                         0
                                                    7.7500
     [891 rows x 6 columns]
[]: # Now let's add the encoded column male again
     titanic_df = pd.concat([titanic_df, male], axis = 1)
[]: titanic_df
                                            Parch
[]:
          Survived
                    Pclass
                               Age
                                    SibSp
                                                       Fare
                                                              male
                              22.0
                                                    7.2500
                  0
                           3
                                         1
                                                0
                                                              True
     1
                  1
                           1
                              38.0
                                         1
                                                0
                                                   71.2833
                                                             False
     2
                  1
                           3
                              26.0
                                         0
                                                    7.9250
                                                0
                                                             False
     3
                  1
                              35.0
                                                   53.1000
                                                             False
                           1
                                         1
                                                0
     4
                  0
                           3
                              35.0
                                                    8.0500
                                         0
                                                0
                                                              True
     . .
                           •••
     886
                  0
                           2
                              27.0
                                         0
                                                   13.0000
                                                              True
     887
                              19.0
                                                   30.0000
                                                             False
                  1
                           1
                                         0
                                                0
                                                   23.4500
     888
                  0
                           3
                               NaN
                                         1
                                                2
                                                             False
     889
                  1
                           1
                              26.0
                                         0
                                                0
                                                   30.0000
                                                              True
     890
                  0
                              32.0
                                         0
                                                    7.7500
                                                              True
     [891 rows x 7 columns]
    Train Logistic Regression Classifier Model
[]: from sklearn.impute import SimpleImputer
     from sklearn.model selection import train test split
     from sklearn.linear_model import LogisticRegression
     # 1. Create an imputer object with a strategy (e.g., mean, median)
     imputer = SimpleImputer(strategy='mean') # or strategy='median'
[]: #Let's drop the target coloumn before we do train test split
```

X = titanic_df.drop('Survived', axis = 1).values

```
y = titanic_df['Survived'].values
[]: from sklearn.model_selection import train_test_split
    →random state=10)
[]: #3. Fit the imputer on the training data and transform both train and test sets
    X_train = imputer.fit_transform(X_train) # Fit on training data and transform
                                          # Transform the test data
    X_test = imputer.transform(X_test)
[]: # 4. Now, fit your Logistic Regression model
    classifier = LogisticRegression(random_state=0)
    classifier.fit(X_train, y_train)
[]: LogisticRegression(random_state=0)
    Assess Trained Model Performance
[]: #Assess Trained Model Performance
    y_predict_test = classifier.predict(X_test)
    y_predict_test
[]: array([0, 0, 0, 1, 1, 0, 0, 0, 0, 0, 1, 1, 1, 0, 0, 0, 0, 1, 0, 0, 0,
           1, 0, 0, 0, 0, 1, 0, 1, 1, 0, 1, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0,
           0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 0, 1, 1, 0, 0, 1, 1, 1, 0, 0,
           0, 0, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0, 0, 0, 0, 0, 1, 1, 0, 1, 1,
           0, 1, 0, 0, 1, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0, 0, 1, 1, 0, 1, 1, 0,
           1, 0, 1, 0, 0, 0, 0, 1, 1, 0, 1, 0, 1, 1, 0, 1, 1, 0, 0, 0, 1, 0,
           0, 1, 1, 1, 0, 1, 1, 0, 1, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0,
           0, 1, 0, 0, 0, 0, 1, 1, 0, 0, 0, 0, 1, 0, 1, 0, 1, 0, 0,
           0, 0, 1])
[]: from sklearn.metrics import confusion_matrix
    cm = confusion_matrix(y_test, y_predict_test)
    sns.heatmap(cm, annot = True, fmt = "d")
[]: <Axes: >
```



[]: from sklearn.metrics import classification_report print(classification_report(y_test, y_predict_test))

	precision	recall	f1-score	support
0	0.86	0.85	0.86	117
1	0.73	0.74	0.74	62
accuracy			0.82	179
macro avg	0.80	0.80	0.80	179
weighted avg	0.82	0.82	0.82	179

Fitting Naive Bayes Classifier Model

```
[]: # Fitting Naive Bayes Classifier Model
from sklearn.naive_bayes import MultinomialNB
classifier = MultinomialNB()
classifier.fit(X_train, y_train)
```

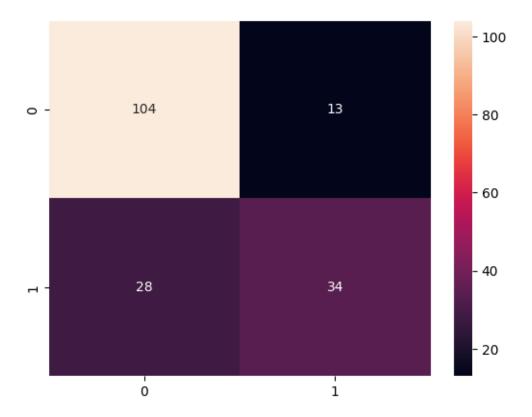
[]: MultinomialNB()

```
[]: y_predict_test = classifier.predict(X_test)
y_predict_test

cm = confusion_matrix(y_test, y_predict_test)
sns.heatmap(cm, annot = True, fmt = "d")

print(classification_report(y_test, y_predict_test))
```

	precision	recall	f1-score	support
0 1	0.79 0.72	0.89 0.55	0.84 0.62	117 62
accuracy macro avg weighted avg	0.76 0.77	0.72 0.77	0.77 0.73 0.76	179 179 179



```
[1]: sudo apt-get update sudo apt-get install texlive-xetex pandoc
```

 ${\tt Get:1\ https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86_64} \\ {\tt InRelease\ [1,581\ B]}$

```
Get:2 https://cloud.r-project.org/bin/linux/ubuntu jammy-cran40/ InRelease
[3,632 B]
Get:3 https://developer.download.nvidia.com/compute/cuda/repos/ubuntu2204/x86 64
Packages [1,378 kB]
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Hit:5 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:6 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
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Hit:9 https://ppa.launchpadcontent.net/deadsnakes/ppa/ubuntu jammy InRelease
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InRelease
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Get:13 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:14 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages
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[1,236 kB]
Get:17 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [3,000
Get:18 https://r2u.stat.illinois.edu/ubuntu jammy/main amd64 Packages [2,675 kB]
Fetched 21.7 MB in 7s (3,005 kB/s)
Reading package lists... Done
W: Skipping acquire of configured file 'main/source/Sources' as repository
'https://r2u.stat.illinois.edu/ubuntu jammy InRelease' does not seem to provide
it (sources.list entry misspelt?)
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
 libcmark-gfm-extensions0.29.0.gfm.3 libcmark-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
 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 t1utils teckit tex-common tex-gyre
  texlive-base texlive-binaries texlive-fonts-recommended texlive-latex-base
  texlive-latex-extra 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 libcmark-gfm-extensions0.29.0.gfm.3 libcmark-gfm0.29.0.gfm.3

dvisvgm fonts-droid-fallback fonts-lato fonts-lmodern fonts-noto-mono fonts-texgyre fonts-urw-base35 libapache-pom-java libcmark-gfm-extensions0.29.0.gfm.3 libcmark-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 libtexluajit2 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 t1utils teckit tex-common tex-gyre 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, 58 newly installed, 0 to remove and 35 not upgraded.

Need to get 202 MB of archives.

After this operation, 728 MB of additional disk space will be used.

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[2,696 kB]

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[33.7 kB]

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0.35-15build2 [16.5 kB]

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2.13.1-1 [1,221 kB]

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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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1:1.1.4-1build3 [14.7 kB]

Get:23 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libptexenc1 amd64 2021.20210626.59705-1ubuntu0.2 [39.1 kB]

Get:24 http://archive.ubuntu.com/ubuntu jammy/main amd64 rubygems-integration
all 1.18 [5,336 B]

Get:25 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ruby3.0 amd64 3.0.2-7ubuntu2.8 [50.1 kB]

Get:26 http://archive.ubuntu.com/ubuntu jammy/main amd64 ruby-rubygems all 3.3.5-2 [228 kB]

Get:27 http://archive.ubuntu.com/ubuntu jammy/main amd64 ruby amd64 1:3.0~exp1
[5,100 B]

Get:28 http://archive.ubuntu.com/ubuntu jammy/main amd64 rake all 13.0.6-2 [61.7 kB]

Get:29 http://archive.ubuntu.com/ubuntu jammy/main amd64 ruby-net-telnet all 0.1.1-2 [12.6 kB]

Get:30 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ruby-webrick
all 1.7.0-3ubuntu0.1 [52.1 kB]

Get:31 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 ruby-xmlrpc all 0.3.2-1ubuntu0.1 [24.9 kB]

Get:32 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libruby3.0 amd64 3.0.2-7ubuntu2.8 [5,113 kB]

Get:33 http://archive.ubuntu.com/ubuntu jammy-updates/main amd64 libsynctex2 amd64 2021.20210626.59705-1ubuntu0.2 [55.6 kB]

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

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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 libzzip-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-Oubuntu2 [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
2.9.2.1-3ubuntu2 [81.8 kB]
Get:42 http://archive.ubuntu.com/ubuntu jammy/universe amd64 pandoc amd64
2.9.2.1-3ubuntu2 [20.3 MB]
Get:43 http://archive.ubuntu.com/ubuntu jammy/universe amd64 preview-latex-style
all 12.2-1ubuntu1 [185 kB]
Get:44 http://archive.ubuntu.com/ubuntu jammy/main amd64 t1utils amd64
1.41-4build2 [61.3 kB]
Get:45 http://archive.ubuntu.com/ubuntu jammy/universe amd64 teckit amd64
2.5.11+ds1-1 [699 kB]
Get:46 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tex-gyre all
20180621-3.1 [6,209 kB]
Get:47 http://archive.ubuntu.com/ubuntu jammy-updates/universe amd64 texlive-
binaries amd64 2021.20210626.59705-1ubuntu0.2 [9,860 kB]
Get:48 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-base all
```

2021.20220204-1 [21.0 MB]

Get:49 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-fontsrecommended all 2021.20220204-1 [4,972 kB]

Get:50 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-latex-base all 2021.20220204-1 [1,128 kB]

Get:51 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libfontbox-java all 1:1.8.16-2 [207 kB]

Get:52 http://archive.ubuntu.com/ubuntu jammy/universe amd64 libpdfbox-java all 1:1.8.16-2 [5,199 kB]

Get:53 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-latexrecommended all 2021.20220204-1 [14.4 MB]

Get:54 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-pictures all 2021.20220204-1 [8,720 kB]

Get:55 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-latex-extra all 2021.20220204-1 [13.9 MB]

Get:56 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-plaingeneric all 2021.20220204-1 [27.5 MB]

Get:57 http://archive.ubuntu.com/ubuntu jammy/universe amd64 tipa all 2:1.3-21 [2,967 kB]

Get:58 http://archive.ubuntu.com/ubuntu jammy/universe amd64 texlive-xetex all 2021.20220204-1 [12.4 MB]

Fetched 202 MB in 15s (13.9 MB/s)

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debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based
frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line 78,
<> line 58.)
debconf: falling back to frontend: Readline
debconf: unable to initialize frontend: Readline
debconf: (This frontend requires a controlling tty.)
debconf: falling back to frontend: Teletype
dpkg-preconfigure: unable to re-open stdin:
Selecting previously unselected package fonts-droid-fallback.
(Reading database ... 125044 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) ...
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-Oubuntu5.10 all.deb ...
Unpacking libgs9-common (9.55.0~dfsg1-Oubuntu5.10) ...
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-Oubuntu5.10_amd64.deb ...
Unpacking libgs9:amd64 (9.55.0~dfsg1-Oubuntu5.10) ...
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) ...
```

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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-Imodern (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 ...
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_3.0.2-7ubuntu2.8_amd64.deb ...
Unpacking ruby3.0 (3.0.2-7ubuntu2.8) ...
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) ...
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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_1.7.0-3ubuntu0.1_all.deb ...
Unpacking ruby-webrick (1.7.0-3ubuntu0.1) ...
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_3.0.2-7ubuntu2.8_amd64.deb ...
Unpacking libruby3.0:amd64 (3.0.2-7ubuntu2.8) ...
Selecting previously unselected package libsynctex2:amd64.
Preparing to unpack .../32-libsynctex2_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-Oubuntu2) ...
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) ...
```

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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 tlutils.
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 libfontbox-java.
Preparing to unpack .../50-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 .../51-libpdfbox-java_1%3a1.8.16-2_all.deb ...
Unpacking libpdfbox-java (1:1.8.16-2) ...
Selecting previously unselected package texlive-latex-recommended.
Preparing to unpack .../52-texlive-latex-recommended 2021.20220204-1_all.deb ...
Unpacking texlive-latex-recommended (2021.20220204-1) ...
Selecting previously unselected package texlive-pictures.
Preparing to unpack .../53-texlive-pictures 2021.20220204-1 all.deb ...
Unpacking texlive-pictures (2021.20220204-1) ...
Selecting previously unselected package texlive-latex-extra.
Preparing to unpack .../54-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 .../55-texlive-plain-generic_2021.20220204-1_all.deb ...
Unpacking texlive-plain-generic (2021.20220204-1) ...
Selecting previously unselected package tipa.
Preparing to unpack .../56-tipa_2%3a1.3-21_all.deb ...
Unpacking tipa (2:1.3-21) ...
Selecting previously unselected package texlive-xetex.
Preparing to unpack .../57-texlive-xetex_2021.20220204-1_all.deb ...
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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 libzzip-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) ...
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based
frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line
78.)
debconf: falling back to frontend: Readline
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-Oubuntu2) ...
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 (1.7.0-3ubuntu0.1) ...
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-Oubuntu5.10) ...
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-Oubuntu5.10) ...
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) ...
```

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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
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based
frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line
78.)
debconf: falling back to frontend: Readline
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-latex-extra (2021.20220204-1) ...
Setting up texlive-xetex (2021.20220204-1) ...
Setting up rake (13.0.6-2) ...
Setting up libruby3.0:amd64 (3.0.2-7ubuntu2.8) ...
Setting up ruby3.0 (3.0.2-7ubuntu2.8) ...
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 mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for fontconfig (2.13.1-4.2ubuntu5) ...
Processing triggers for libc-bin (2.35-Oubuntu3.8) ...
/sbin/ldconfig.real: /usr/local/lib/libtbb.so.12 is not a symbolic link
/sbin/ldconfig.real: /usr/local/lib/libtbbbind 2 5.so.3 is not a symbolic link
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/sbin/ldconfig.real: /usr/local/lib/libtbbbind.so.3 is not a symbolic link
/sbin/ldconfig.real: /usr/local/lib/libur_adapter_opencl.so.0 is not a symbolic
link
/sbin/ldconfig.real: /usr/local/lib/libtbbbind 2 0.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/libumf.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/libtcm.so.1 is not a symbolic link
/sbin/ldconfig.real: /usr/local/lib/libhwloc.so.15 is not a symbolic link
/sbin/ldconfig.real: /usr/local/lib/libtcm_debug.so.1 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/libur_adapter_level_zero.so.0 is not a
symbolic link
Processing triggers for tex-common (6.17) ...
debconf: unable to initialize frontend: Dialog
debconf: (No usable dialog-like program is installed, so the dialog based
frontend cannot be used. at /usr/share/perl5/Debconf/FrontEnd/Dialog.pm line
78.)
debconf: falling back to frontend: Readline
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 '/content/drive/MyDrive/Colab_Notebooks/Project s/Logistic_Regression_and_Naive_Bayes_Titanic_Survival_Prediction.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:
    <md> --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]
    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]
```

```
--coalesce-streams
    Coalesce consecutive stdout and stderr outputs into one stream (within each
cell).
   Equivalent to: [--NbConvertApp.use_output_suffix=False
--NbConvertApp.export format=notebook --FilesWriter.build directory=
--CoalesceStreamsPreprocessor.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', 'qtpdf', 'qtpng', '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.
                Supports pattern replacements '{notebook_name}'.
    Default: '{notebook name}'
    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
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```

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', 'qtpdf', 'qtpng', '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`.