

## Module 2 Assignment - Setting Update Data Lake

**By: Paul Thai**

In [ ]: `!pip list - checking to see python packages versions`

Package	Version
alabaster	0.7.16
annotated-types	0.6.0
anyio	4.3.0
appdirs	1.4.4
archspec	0.2.2
argon2-cffi	23.1.0
argon2-cffi-bindings	21.2.0
arrow	1.3.0
asgiref	3.8.1
astroid	2.15.8
astropy	6.0.1
astropy-iers-data	0.2024.4.15.2.45.49
asttokens	2.4.1
async-lru	2.0.4
atomicwrites	1.4.1
attrs	23.2.0
Authlib	1.3.0
Automat	22.10.0
autopep8	2.0.4
autovizwidget	0.20.4
awscli	1.32.84
Babel	2.14.0
bcrypt	4.1.2
beautifulsoup4	4.12.3
binaryornot	0.4.4
black	24.4.0
bleach	6.1.0
blinker	1.7.0
bokeh	3.4.1
boltons	23.1.1
boto3	1.34.84
botocore	1.34.84
Brotli	1.1.0
brotlipy	0.7.0
cached-property	1.5.2
certifi	2024.2.2
cffi	1.16.0
chardet	5.2.0
charset-normalizer	3.3.2
click	8.1.7
cloudpickle	2.2.1
colorama	0.4.4
colorcet	3.1.0
comm	0.2.2
conda	23.11.0
conda-content-trust	0.2.0
conda-libmamba-solver	23.12.0
conda-package-handling	2.2.0
conda_package_streaming	0.9.0
constantly	15.1.0
contextlib2	21.6.0
contourpy	1.2.1
cookiecutter	2.6.0
cryptography	42.0.5

cycler	0.12.1
cytoolz	0.12.3
daal4py	2024.3.0
dask	2024.4.1
dask-expr	1.0.11
debugpy	1.8.1
decorator	5.1.1
defusedxml	0.7.1
diff-match-patch	20230430
dill	0.3.8
distributed	2024.4.1
distro	1.8.0
Django	5.0.4
docker	6.1.3
docstring-to-markdown	0.15
docutils	0.16
dparse	0.6.4b0
entrypoints	0.4
et-xmlfile	1.1.0
exceptiongroup	1.2.0
executing	2.0.1
fastapi	0.110.1
fastjsonschema	2.19.1
filelock	3.13.4
flake8	7.0.0
Flask	2.3.3
fonttools	4.51.0
fqdn	1.5.1
fsspec	2024.3.1
future	1.0.0
gevent	23.9.0.post1
gmpy2	2.1.2
google-pasta	0.2.0
greenlet	3.0.3
gssapi	1.8.3
h11	0.14.0
h2	4.1.0
h5py	3.11.0
hdijupyterutils	0.20.4
holoviews	1.18.3
hpack	4.0.0
httpcore	1.0.5
httpx	0.27.0
hyperframe	6.0.1
hyperlink	21.0.0
idna	3.6
imagecodecs	2024.1.1
imageio	2.34.0
imagesize	1.4.1
importlib-metadata	6.11.0
importlib_resources	6.4.0
incremental	22.10.0
inflection	0.5.1
iniconfig	2.0.0
intervaltree	3.1.0
ipykernel	6.29.3

ipython	8.23.0
ipython-genutils	0.2.0
ipywidgets	7.6.5
isoduration	20.11.0
isort	5.13.2
itsdangerous	2.1.2
jaraco.classes	3.4.0
jaraco.context	4.3.0
jaraco.functools	4.0.0
jedi	0.19.1
jeepney	0.8.0
jellyfish	1.0.3
Jinja2	3.1.3
jmespath	1.0.1
joblib	1.4.0
json5	0.9.25
jsonpatch	1.33
jsonpointer	2.4
jsonschema	4.21.1
jsonschema-specifications	2023.12.1
jupyter	1.0.0
jupyter_client	7.4.9
jupyter-console	6.6.3
jupyter_core	5.7.2
jupyter-events	0.10.0
jupyter-lsp	2.2.5
jupyter_server	2.14.0
jupyter_server_terminals	0.5.3
jupyterlab	4.1.6
jupyterlab_pygments	0.3.0
jupyterlab_server	2.26.0
jupyterlab_widgets	3.0.10
keyring	25.1.0
kiwisolver	1.4.5
krb5	0.5.1
lazy-object-proxy	1.10.0
libmambapy	1.5.5
lief	0.14.1
linkify-it-py	2.0.3
llvmlite	0.42.0
locket	1.0.0
lxml	5.1.0
lz4	4.3.3
mamba	1.5.5
Markdown	3.6
markdown-it-py	3.0.0
MarkupSafe	2.1.5
marshmallow	3.21.1
matplotlib	3.8.4
matplotlib-inline	0.1.6
mccabe	0.7.0
mdit-py-plugins	0.4.0
mdurl	0.1.2
menuinst	2.0.1
mistune	0.8.4
mock	5.1.0

more-itertools	10.2.0
mpmath	1.3.0
msgpack	1.0.7
multiprocess	0.70.16
munkres	1.1.4
mypy-extensions	1.0.0
nb_conda_kernels	2.3.1
nbclassic	1.0.0
nbclient	0.10.0
nbconvert	6.5.3
nbformat	5.10.4
nest-asyncio	1.5.5
nltk	3.8.1
nose	1.3.7
notebook	6.5.6
notebook_shim	0.2.4
numba	0.59.1
numexpr	2.9.0
numpy	1.26.4
numpydoc	1.7.0
openpyxl	3.1.2
overrides	7.7.0
packaging	23.2
pandas	2.2.2
pandocfilters	1.5.0
panel	1.4.1
papermill	2.5.0
param	2.1.0
parso	0.8.4
partd	1.4.1
pathos	0.3.2
pathspec	0.12.1
patsy	0.5.6
pexpect	4.9.0
pickleshare	0.7.5
pillow	10.3.0
pip	24.0
pkgutil_resolve_name	1.3.10
platformdirs	4.1.0
plotly	5.19.0
pluggy	1.4.0
ply	3.11
pox	0.3.4
ppft	1.7.6.8
prometheus_client	0.20.0
prompt-toolkit	3.0.42
protobuf	4.25.3
psutil	5.9.8
ptyprocess	0.7.0
pure-eval	0.2.2
pure-sasl	0.6.2
pyarrow	15.0.2
pyarrow-hotfix	0.6
pyasn1	0.6.0
pyasn1_modules	0.4.0
pycodestyle	2.11.1

pycosat	0.6.6
pycparser	2.21
pydantic	2.7.0
pydantic_core	2.18.1
pydocstyle	6.3.0
pyerfa	2.0.1.4
pyflakes	3.2.0
pyfunctional	1.5.0
Pygments	2.17.2
PyHive	0.7.0
pylint	2.17.7
pylint-venv	3.0.3
pyls-spyder	0.4.0
pyodbc	5.1.0
pyOpenSSL	24.0.0
pyparsing	3.1.2
PyQt5	5.15.9
PyQt5-sip	12.12.2
PyQtWebEngine	5.15.4
PySocks	1.7.1
pyspnego	0.9.1
pytest	8.1.1
python-dateutil	2.9.0
python-json-logger	2.0.7
python-lsp-black	2.0.0
python-lsp-jsonrpc	1.1.2
python-lsp-server	1.10.1
python-slugify	8.0.4
pytoolconfig	1.2.5
pytz	2024.1
pyviz_comms	3.0.1
pyxdg	0.28
PyYAML	6.0.1
pyzmq	24.0.1
QDarkStyle	3.2.3
qstylizer	0.2.2
QtAwesome	1.2.3
qtconsole	5.5.1
QtPy	2.4.1
referencing	0.34.0
regex	2023.12.25
requests	2.31.0
requests-kerberos	0.14.0
rfc3339-validator	0.1.4
rfc3986-validator	0.1.1
rich	13.7.1
rope	1.13.0
rpds-py	0.18.0
rsa	4.7.2
Rtree	1.2.0
ruamel.yaml	0.18.5
ruamel.yaml.clib	0.2.7
ruamel-yaml-conda	0.15.80
s3fs	0.4.2
s3transfer	0.10.1
safety-schemas	0.0.2

sagemaker	2.215.0
sagemaker-data-insights	0.3.3
sagemaker-datawrangler	0.4.3
sagemaker-headless-execution-driver	0.0.13
sagemaker-scikit-learn-extension	2.5.0
sagemaker-studio-analytics-extension	0.0.20
sagemaker-studio-sparkmagic-lib	0.1.4
sasl	0.3.1
schema	0.7.5
scikit-learn	1.4.2
scipy	1.13.0
seaborn	0.13.2
SecretStorage	3.3.3
Send2Trash	1.8.3
service-identity	21.1.0
setuptools	69.5.1
shellingham	1.5.4
sip	6.7.12
six	1.16.0
smclarify	0.5
smdebug-rulesconfig	1.0.1
sniffio	1.3.1
snowballstemmer	2.2.0
sortedcontainers	2.4.0
soupsieve	2.5
sparkmagic	0.20.4
Sphinx	7.2.6
sphinxcontrib-applehelp	1.0.8
sphinxcontrib-devhelp	1.0.6
sphinxcontrib-htmlhelp	2.0.5
sphinxcontrib-jsmath	1.0.1
sphinxcontrib-qthelp	1.0.7
sphinxcontrib-serializinghtml	1.1.10
spyder	5.5.3
spyder-kernels	2.5.1
SQLAlchemy	2.0.29
sqlparse	0.4.4
stack-data	0.6.2
starlette	0.37.2
statsmodels	0.14.1
sympy	1.12
tabulate	0.9.0
tblib	3.0.0
tenacity	8.2.3
terminado	0.18.1
text-unidecode	1.3
textdistance	4.5.0
threadpoolctl	3.4.0
three-merge	0.1.1
thrift	0.20.0
thrift-sasl	0.4.3
tinycss2	1.2.1
toml	0.10.2
tomli	2.0.1
tomlkit	0.12.4
toolz	0.12.1

tornado	6.4
tqdm	4.66.1
traitlets	5.14.2
truststore	0.8.0
Twisted	24.3.0
typer	0.12.3
types-python-dateutil	2.9.0.20240316
typing_extensions	4.11.0
typing-utils	0.1.0
tzdata	2024.1
uc-micro-py	1.0.3
ujson	5.9.0
unicodedata2	15.1.0
uri-template	1.3.0
urllib3	2.2.1
w3lib	2.1.2
watchdog	4.0.0
wcwidth	0.2.13
webcolors	1.13
webencodings	0.5.1
websocket-client	1.7.0
Werkzeug	2.3.8
whatthepatch	1.0.5
wheel	0.43.0
widgetsnbextension	3.5.2
wrapt	1.16.0
wurlitzer	3.0.3
xlrd	2.0.1
xyzservices	2024.4.0
yapf	0.40.1
zict	3.0.0
zipp	3.17.0
zope.event	5.0
zope.interface	6.3
zstandard	0.22.0

## Copying Setup from the lab

```
In [ ]: !pip install --disable-pip-version-check -q pip --upgrade > /dev/null
!pip install --disable-pip-version-check -q wrapt --upgrade > /dev/null
```

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

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```
In [ ]: !pip install --disable-pip-version-check -q awscli==1.18.216 boto3==1.16.56 botocore
```



ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.

sagemaker 2.215.0 requires boto3<2.0,>=1.33.3, but you have boto3 1.16.56 which is incompatible.

sagemaker 2.215.0 requires PyYAML~=6.0, but you have pyyaml 5.3.1 which is incompatible.

sagemaker-studio-analytics-extension 0.0.20 requires boto3<2.0,>=1.26.49, but you have boto3 1.16.56 which is incompatible.

sphinx 7.2.6 requires docutils<0.21,>=0.18.1, but you have docutils 0.15.2 which is incompatible.

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

```
In [ ]: !pip install --disable-pip-version-check -q sagemaker==2.29.0
!pip install --disable-pip-version-check -q smdebug==1.0.1
!pip install --disable-pip-version-check -q sagemaker-experiments==0.1.26
```

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

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```
In [ ]: !pip install --disable-pip-version-check -q PyAthena==2.1.0
```

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

```
In [ ]: !pip install --disable-pip-version-check -q awswrangler==2.18.0
```

ERROR: pip's dependency resolver does not currently take into account all the packages that are installed. This behaviour is the source of the following dependency conflicts.

awscli 1.18.216 requires botocore==1.19.56, but you have botocore 1.34.108 which is incompatible.

awscli 1.18.216 requires s3transfer<0.4.0,>=0.3.0, but you have s3transfer 0.10.1 which is incompatible.

dask-expr 1.0.11 requires pandas>=2, but you have pandas 1.5.1 which is incompatible.

sagemaker-datawrangler 0.4.3 requires sagemaker-data-insights==0.4.0, but you have sagemaker-data-insights 0.3.3 which is incompatible.

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

```
In [ ]: !conda install -y zip
```

Channels:

- conda-forge

Platform: linux-64

Collecting package metadata (repodata.json): -

```
In [ ]: !pip install --disable-pip-version-check -q seaborn==0.10.0
```

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

```
In [ ]: !pip install --disable-pip-version-check -q matplotlib==3.1.3
```

**error: subprocess-exited-with-error**

× python setup.py bdist\_wheel did not run successfully.

| exit code: 1

↳ [532 lines of output]

IMPORTANT WARNING:

pkg-config is not installed.

matplotlib may not be able to find some of its dependencies

=====

==

Edit setup.cfg to change the build options

BUILDING MATPLOTLIB

matplotlib: yes [3.1.3]

python: yes [3.10.6 | packaged by conda-forge | (main, Aug 22 2022,  
20:36:39) [GCC 10.4.0]]

platform: yes [linux]

OPTIONAL SUBPACKAGES

sample\_data: yes [installing]

tests: no [skipping due to configuration]

OPTIONAL BACKEND EXTENSIONS

agg: yes [installing]

tkagg: yes [installing; run-time loading from Python Tcl/Tk]

macosx: no [Mac OS-X only]

OPTIONAL PACKAGE DATA

dlls: no [skipping due to configuration]

/opt/conda/lib/python3.10/site-packages/setuptools/\_\_init\_\_.py:81: \_Deprecated  
Installer: setuptools.installer and fetch\_build\_eggs are deprecated.

!!

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Requirements should be satisfied by a PEP 517 installer.

If you are using pip, you can try `pip install --use-pep517`.

\*\*\*\*\*

\*\*\*\*\*

!!

dist.fetch\_build\_eggs(dist.setup\_requires)

/opt/conda/lib/python3.10/site-packages/setuptools/dist.py:678: SetuptoolsDeprecationWarning: The namespace\_packages parameter is deprecated.

!!

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Please replace its usage with implicit namespaces (PEP 420).

See <https://setuptools.pypa.io/en/latest/references/keywords.html#keyword-namespace-packages> for details.

\*\*\*\*\*

\*\*\*\*\*

```

!!
    ep.load()(self, ep.name, value)
running bdist_wheel
running build
running build_py
creating build
creating build/lib.linux-x86_64-cpython-310
copying lib/pylab.py -> build/lib.linux-x86_64-cpython-310
creating build/lib.linux-x86_64-cpython-310/matplotlib
copying lib/matplotlib/__init__.py -> build/lib.linux-x86_64-cpython-310/matp
otlib
    copying lib/matplotlib/_animation_data.py -> build/lib.linux-x86_64-cpython-31
0/matplotlib
    copying lib/matplotlib/_cm.py -> build/lib.linux-x86_64-cpython-310/matplotlib
    copying lib/matplotlib/_cm_listed.py -> build/lib.linux-x86_64-cpython-310/mat
plotlib
    copying lib/matplotlib/_color_data.py -> build/lib.linux-x86_64-cpython-310/ma
tplotlib
    copying lib/matplotlib/_constrained_layout.py -> build/lib.linux-x86_64-cpytho
n-310/matplotlib
    copying lib/matplotlib/_layoutbox.py -> build/lib.linux-x86_64-cpython-310/mat
plotlib
    copying lib/matplotlib/_mathtext_data.py -> build/lib.linux-x86_64-cpython-31
0/matplotlib
    copying lib/matplotlib/_pylab_helpers.py -> build/lib.linux-x86_64-cpython-31
0/matplotlib
    copying lib/matplotlib/_version.py -> build/lib.linux-x86_64-cpython-310/matp
otlib
    copying lib/matplotlib/afm.py -> build/lib.linux-x86_64-cpython-310/matplotlib
    copying lib/matplotlib/animation.py -> build/lib.linux-x86_64-cpython-310/matp
lotlib
    copying lib/matplotlib/artist.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/axis.py -> build/lib.linux-x86_64-cpython-310/matplotli
b
    copying lib/matplotlib/backend_bases.py -> build/lib.linux-x86_64-cpython-310/
matplotlib
    copying lib/matplotlib/backend_managers.py -> build/lib.linux-x86_64-cpython-3
10/matplotlib
    copying lib/matplotlib/backend_tools.py -> build/lib.linux-x86_64-cpython-310/
matplotlib
    copying lib/matplotlib/Bezier.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/blocking_input.py -> build/lib.linux-x86_64-cpython-31
0/matplotlib
    copying lib/matplotlib/category.py -> build/lib.linux-x86_64-cpython-310/matp
otlib
    copying lib/matplotlib/cm.py -> build/lib.linux-x86_64-cpython-310/matplotlib
    copying lib/matplotlib/collections.py -> build/lib.linux-x86_64-cpython-310/ma
tplotlib
    copying lib/matplotlib/colorbar.py -> build/lib.linux-x86_64-cpython-310/matp
otlib
    copying lib/matplotlib/colors.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/container.py -> build/lib.linux-x86_64-cpython-310/matp
lotlib

```

```
    copying lib/matplotlib/contour.py -> build/lib.linux-x86_64-cpython-310/matplo
tlib
    copying lib/matplotlib/dates.py -> build/lib.linux-x86_64-cpython-310/matplotl
ib
    copying lib/matplotlib/docstring.py -> build/lib.linux-x86_64-cpython-310/matp
lotlib
    copying lib/matplotlib/dviread.py -> build/lib.linux-x86_64-cpython-310/matplo
tlib
    copying lib/matplotlib/figure.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/font_manager.py -> build/lib.linux-x86_64-cpython-310/m
atplotlib
    copying lib/matplotlib/fontconfig_pattern.py -> build/lib.linux-x86_64-cpython
-310/matplotlib
    copying lib/matplotlib/gridspec.py -> build/lib.linux-x86_64-cpython-310/matpl
otlib
    copying lib/matplotlib/hatch.py -> build/lib.linux-x86_64-cpython-310/matplotl
ib
    copying lib/matplotlib/image.py -> build/lib.linux-x86_64-cpython-310/matplotl
ib
    copying lib/matplotlib/legend.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/legend_handler.py -> build/lib.linux-x86_64-cpython-31
0/matplotlib
    copying lib/matplotlib/lines.py -> build/lib.linux-x86_64-cpython-310/matplotl
ib
    copying lib/matplotlib/markers.py -> build/lib.linux-x86_64-cpython-310/matplo
tlib
    copying lib/matplotlib/mathtext.py -> build/lib.linux-x86_64-cpython-310/matpl
otlib
    copying lib/matplotlib/mlab.py -> build/lib.linux-x86_64-cpython-310/matplotli
b
    copying lib/matplotlib/offsetbox.py -> build/lib.linux-x86_64-cpython-310/matp
lotlib
    copying lib/matplotlib/patches.py -> build/lib.linux-x86_64-cpython-310/matplo
tlib
    copying lib/matplotlib/path.py -> build/lib.linux-x86_64-cpython-310/matplotli
b
    copying lib/matplotlib/patheffects.py -> build/lib.linux-x86_64-cpython-310/ma
tplotlib
    copying lib/matplotlib/pylab.py -> build/lib.linux-x86_64-cpython-310/matplotl
ib
    copying lib/matplotlib/pyplot.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/quiver.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/rcsetup.py -> build/lib.linux-x86_64-cpython-310/matplo
tlib
    copying lib/matplotlib/sankey.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/scale.py -> build/lib.linux-x86_64-cpython-310/matplotl
ib
    copying lib/matplotlib/spines.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
    copying lib/matplotlib/stackplot.py -> build/lib.linux-x86_64-cpython-310/matp
lotlib
```

```

        copying lib/matplotlib/streamplot.py -> build/lib.linux-x86_64-cpython-310/mat
plotlib
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ib
        copying lib/matplotlib/texmanager.py -> build/lib.linux-x86_64-cpython-310/mat
plotlib
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b
        copying lib/matplotlib/textpath.py -> build/lib.linux-x86_64-cpython-310/matpl
otlib
        copying lib/matplotlib/ticker.py -> build/lib.linux-x86_64-cpython-310/matplot
lib
        copying lib/matplotlib/tight_bbox.py -> build/lib.linux-x86_64-cpython-310/mat
plotlib
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atplotlib
        copying lib/matplotlib/transforms.py -> build/lib.linux-x86_64-cpython-310/mat
plotlib
        copying lib/matplotlib/type1font.py -> build/lib.linux-x86_64-cpython-310/matp
lotlib
        copying lib/matplotlib/units.py -> build/lib.linux-x86_64-cpython-310/matplotl
ib
        copying lib/matplotlib/widgets.py -> build/lib.linux-x86_64-cpython-310/matplo
tlib
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_toolkits
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matplotlib/axes
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plotlib/axes
        copying lib/matplotlib/axes/_base.py -> build/lib.linux-x86_64-cpython-310/mat
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on-310/matplotlib/axes
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0/matplotlib/axes
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310/matplotlib/backends
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python-310/matplotlib/backends
        copying lib/matplotlib/backends/backend_gtk3cairo.py -> build/lib.linux-x86_64
-cpython-310/matplotlib/backends
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```

```

ython-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_mixed.py -> build/lib.linux-x86_64-cpy
thon-310/matplotlib/backends
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thon-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_pdf.py -> build/lib.linux-x86_64-cpyth
on-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_pgf.py -> build/lib.linux-x86_64-cpyth
on-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_ps.py -> build/lib.linux-x86_64-cpytho
n-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_qt4.py -> build/lib.linux-x86_64-cpyth
on-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_qt4agg.py -> build/lib.linux-x86_64-cp
ython-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_qt4cairo.py -> build/lib.linux-x86_64-
cpython-310/matplotlib/backends
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    copying lib/matplotlib/backends/backend_qt5agg.py -> build/lib.linux-x86_64-cp
ython-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_qt5cairo.py -> build/lib.linux-x86_64-
cpython-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_svg.py -> build/lib.linux-x86_64-cpyth
on-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_template.py -> build/lib.linux-x86_64-
cpython-310/matplotlib/backends
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python-310/matplotlib/backends
    copying lib/matplotlib/backends/backend_webagg.py -> build/lib.linux-x86_64-cp
ython-310/matplotlib/backends
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64-cpython-310/matplotlib/backends
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n-310/matplotlib/backends
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python-310/matplotlib/backends
    copying lib/matplotlib/backends/qt_compat.py -> build/lib.linux-x86_64-cpython
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    copying lib/matplotlib/backends/tkagg.py -> build/lib.linux-x86_64-cpython-31
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-310/matplotlib/backends
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0/matplotlib/cbook
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310/matplotlib/cbook
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```

```

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310/matplotlib/compat
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0/matplotlib/projections
    copying lib/matplotlib/projections/polar.py -> build/lib.linux-x86_64-cpython-
310/matplotlib/projections
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    copying lib/matplotlib/sphinxext/mathmpl.py -> build/lib.linux-x86_64-cpython-
310/matplotlib/sphinxext
    copying lib/matplotlib/sphinxext/plot_directive.py -> build/lib.linux-x86_64-c
python-310/matplotlib/sphinxext
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plotlib/style
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10/matplotlib/testing
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0/matplotlib/testing
    copying lib/matplotlib/testing/conftest.py -> build/lib.linux-x86_64-cpython-3
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    copying lib/matplotlib/testing/decorators.py -> build/lib.linux-x86_64-cpython
-310/matplotlib/testing
    copying lib/matplotlib/testing/determinism.py -> build/lib.linux-x86_64-cpytho
n-310/matplotlib/testing
    copying lib/matplotlib/testing/disable_internet.py -> build/lib.linux-x86_64-c
python-310/matplotlib/testing
    copying lib/matplotlib/testing/exceptions.py -> build/lib.linux-x86_64-cpython
-310/matplotlib/testing
    creating build/lib.linux-x86_64-cpython-310/matplotlib/tri
    copying lib/matplotlib/tri/__init__.py -> build/lib.linux-x86_64-cpython-310/m
atplotlib/tri
    copying lib/matplotlib/tri/triangulation.py -> build/lib.linux-x86_64-cpython-
310/matplotlib/tri
    copying lib/matplotlib/tri/tricontour.py -> build/lib.linux-x86_64-cpython-31
0/matplotlib/tri
    copying lib/matplotlib/tri/trifinder.py -> build/lib.linux-x86_64-cpython-310/
matplotlib/tri
    copying lib/matplotlib/tri/triinterpolate.py -> build/lib.linux-x86_64-cpython
-310/matplotlib/tri
    copying lib/matplotlib/tri/tripcolor.py -> build/lib.linux-x86_64-cpython-310/
matplotlib/tri
    copying lib/matplotlib/tri/tripplot.py -> build/lib.linux-x86_64-cpython-310/ma
tplotlib/tri
    copying lib/matplotlib/tri/trirefine.py -> build/lib.linux-x86_64-cpython-310/
matplotlib/tri
    copying lib/matplotlib/tri/tritools.py -> build/lib.linux-x86_64-cpython-310/m
atplotlib/tri

```



```

        creating build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
        copying lib/matplotlib/backends/qt_editor/__init__.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
        copying lib/matplotlib/backends/qt_editor/_formlayout.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
        copying lib/matplotlib/backends/qt_editor/figureoptions.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
        copying lib/matplotlib/backends/qt_editor/formlayout.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
        copying lib/matplotlib/backends/qt_editor/formsubplottool.py -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/qt_editor
        creating build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
        copying lib/matplotlib/testing/jpl_units/Duration.py -> build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
        copying lib/matplotlib/testing/jpl_units/Epoch.py -> build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
        copying lib/matplotlib/testing/jpl_units/EpochConverter.py -> build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
        copying lib/matplotlib/testing/jpl_units/StrConverter.py -> build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
        copying lib/matplotlib/testing/jpl_units/UnitDb1.py -> build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
        copying lib/matplotlib/testing/jpl_units/UnitDb1Converter.py -> build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
        copying lib/matplotlib/testing/jpl_units/UnitDb1Formatter.py -> build/lib.linux-x86_64-cpython-310/matplotlib/testing/jpl_units
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        copying lib/mpl_toolkits/axes_grid/__init__.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/anchored_artists.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/angle_helper.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/axes_divider.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/axes_grid.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/axes_rgb.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/axes_size.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/axis_artist.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/axisline_style.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/axislines.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/clip_path.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/colorbar.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/floating_axes.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid
        copying lib/mpl_toolkits/axes_grid/grid_finder.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid

```

```

python-310/mpl_toolkits/axes_grid
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ux-x86_64-cpython-310/mpl_toolkits/axes_grid
    copying lib/mpl_toolkits/axes_grid/inset_locator.py -> build/lib.linux-x86_64-
cpython-310/mpl_toolkits/axes_grid
    copying lib/mpl_toolkits/axes_grid/parasite_axes.py -> build/lib.linux-x86_64-
cpython-310/mpl_toolkits/axes_grid
    creating build/lib.linux-x86_64-cpython-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/__init__.py -> build/lib.linux-x86_64-cpyt
hon-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/anchored_artists.py -> build/lib.linux-x86
_64-cpython-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/axes_divider.py -> build/lib.linux-x86_64-
cpython-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/axes_grid.py -> build/lib.linux-x86_64-cpy
thon-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/axes_rgb.py -> build/lib.linux-x86_64-cpyt
hon-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/axes_size.py -> build/lib.linux-x86_64-cpy
thon-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/colorbar.py -> build/lib.linux-x86_64-cpyt
hon-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/inset_locator.py -> build/lib.linux-x86_64
-cpython-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/mpl_axes.py -> build/lib.linux-x86_64-cpyt
hon-310/mpl_toolkits/axes_grid1
    copying lib/mpl_toolkits/axes_grid1/parasite_axes.py -> build/lib.linux-x86_64
-cpython-310/mpl_toolkits/axes_grid1
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hon-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/angle_helper.py -> build/lib.linux-x86_64-
cpython-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/axes_divider.py -> build/lib.linux-x86_64-
cpython-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/axes_grid.py -> build/lib.linux-x86_64-cpy
thon-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/axes_rgb.py -> build/lib.linux-x86_64-cpyt
hon-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/axis_artist.py -> build/lib.linux-x86_64-c
python-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/axisline_style.py -> build/lib.linux-x86_6
4-cpython-310/mpl_toolkits/axisartist
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thon-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/clip_path.py -> build/lib.linux-x86_64-cpy
thon-310/mpl_toolkits/axisartist
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-cpython-310/mpl_toolkits/axisartist
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python-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/grid_helper_curvelinear.py -> build/lib.li
nux-x86_64-cpython-310/mpl_toolkits/axisartist
    copying lib/mpl_toolkits/axisartist/parasite_axes.py -> build/lib.linux-x86_64
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```

```

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    copying lib/mpl_toolkits/mplot3d/axis3d.py -> build/lib.linux-x86_64-cpython-310/mpl_toolkits/mplot3d
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    creating build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts
    creating build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/ttf/cmsy10.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/ttf/STIXNonUniIta.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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    creating build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend
    creating build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery
    creating build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery/js
    copying lib/matplotlib/backends/web_backend/jquery/js/jquery.min.js -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery/js
    creating build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
    creating build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1/images
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    copying lib/matplotlib/mpl-data/fonts/ttf/STIXSizThreeSymReg.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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    copying lib/matplotlib/mpl-data/fonts/afm/pplbi8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
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```

```

    copying lib/matplotlib/mpl-data/sample_data/topobathy.npz -> build/lib.linux-x
86_64-cpython-310/matplotlib/mpl-data/sample_data
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onts
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Helvetica-BoldOblique.afm -
> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
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linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
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hon-310/matplotlib/mpl-data/images
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s
    copying lib/matplotlib/backends/web_backend/css/fbm.css -> build/lib.linux-x86
_64-cpython-310/matplotlib/backends/web_backend/css
    copying lib/matplotlib/mpl-data/fonts/afm/ptmbi8a.afm -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/fonts/afm
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inux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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6_64-cpython-310/matplotlib/mpl-data/sample_data
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-x86_64-cpython-310/matplotlib/mpl-data/stylelib
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uild/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
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4-cpython-310/matplotlib/mpl-data/fonts/afm
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python-310/matplotlib/mpl-data/images
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hon-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Courier.afm -> build/lib.li
nux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/backends/web_backend/single_figure.html -> build/lib.li
nux-x86_64-cpython-310/matplotlib/backends/web_backend
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/jquery-ui.min.js
-> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.1
2.1
    copying lib/matplotlib/mpl-data/fonts/ttf/STIXSizThreeSymBol.ttf -> build/lib.
linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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uild/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
    copying lib/matplotlib/mpl-data/images/filesave.svg -> build/lib.linux-x86_64-
cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/stylelib/seaborn-darkgrid.mplstyle -> build/li
b.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/fonts/afm/pcrb8a.afm -> build/lib.linux-x86_64
-cpython-310/matplotlib/mpl-data/fonts/afm

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        copying lib/matplotlib/mpl-data/stylelib/bmh.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
        copying lib/matplotlib/mpl-data/stylelib/Solarize_Light2.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
        copying lib/matplotlib/mpl-data/stylelib/seaborn-pastel.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
        copying lib/matplotlib/mpl-data/images/qt4_editor_options_large.png -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
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        copying lib/matplotlib/mpl-data/fonts/afm/phvb8an.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
        copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSans.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
        copying lib/matplotlib/mpl-data/images/home.pdf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
        copying lib/matplotlib/mpl-data/images/help_large.ppm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
        copying lib/matplotlib/mpl-data/images/move.pdf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
        copying lib/matplotlib/mpl-data/fonts/afm/ptmri8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
        copying lib/matplotlib/mpl-data/images/zoom_to_rect_large.gif -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
        copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSerif.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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        copying lib/matplotlib/mpl-data/images/hand_large.gif -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
        copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/jquery-ui.structure.min.css -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
        copying lib/matplotlib/mpl-data/fonts/ttf/STIXSizTwoSymBol.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
        copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/jquery-ui.min.css -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
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        copying lib/matplotlib/mpl-data/images/subplots.pdf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
        copying lib/matplotlib/mpl-data/stylelib/seaborn-paper.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib

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lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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x86_64-cpython-310/matplotlib/mpl-data/sample_data
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86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/images/forward.png -> build/lib.linux-x86_64-c
python-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/afm/pplri8a.afm -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/LICENSE.txt -> bu
ild/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
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cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSansMono-BoldOblique.ttf -> bu
ild/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/afm/pbkl8a.afm -> build/lib.linux-x86_64
-cpython-310/matplotlib/mpl-data/fonts/afm
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es_grid
    copying lib/matplotlib/mpl-data/sample_data/axes_grid/bivariate_normal.npy ->
build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data/axes_grid
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/index.html -> bui
ld/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
    copying lib/matplotlib/mpl-data/fonts/ttf/STIXGeneralItalic.ttf -> build/lib.l
inux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/stylelib/dark_background.mplstyle -> build/li
b.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/images/help_large.png -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/backends/web_backend/css/page.css -> build/lib.linux-x8
6_64-cpython-310/matplotlib/backends/web_backend/css
    copying lib/matplotlib/mpl-data/stylelib/seaborn-whitegrid.mplstyle -> build/l
ib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
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nux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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cpython-310/matplotlib/mpl-data/sample_data
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cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/afm/putri8a.afm -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/ttf/cmmi10.ttf -> build/lib.linux-x86_64
-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/afm/pzdr.afm -> build/lib.linux-x86_64-c
python-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/afm/cmr10.afm -> build/lib.linux-x86_64-
cpython-310/matplotlib/mpl-data/fonts/afm
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cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/jquery-ui.structu
re.css -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-

```

```

ui-1.12.1
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77620_256x240.png -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_back
end/jquery-ui-1.12.1/images
    copying lib/matplotlib/mpl-data/stylelib/seaborn.mplstyle -> build/lib.linux-x
86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/images/matplotlib.pdf -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/images
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in.css -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-
ui-1.12.1
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ss -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-
1.12.1
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inux-x86_64-cpython-310/matplotlib/backends/web_backend/css
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d/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
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86_64-cpython-310/matplotlib/mpl-data/images
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4-cpython-310/matplotlib/mpl-data/images
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4-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/backends/web_backend/js/mpl_tornado.js -> build/lib.lin
ux-x86_64-cpython-310/matplotlib/backends/web_backend/js
    copying lib/matplotlib/mpl-data/images/forward_large.gif -> build/lib.linux-x8
6_64-cpython-310/matplotlib/mpl-data/images
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hon-310/matplotlib/mpl-data/images
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hon-310/matplotlib/mpl-data/images
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inux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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b.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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inux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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inux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
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-310/matplotlib/mpl-data

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ux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
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-x86_64-cpython-310/matplotlib/mpl-data/images
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ib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/sample_data/aapl.npz -> build/lib.linux-x86_64
-cpython-310/matplotlib/mpl-data/sample_data
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d/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend
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6_64-cpython-310/matplotlib/mpl-data/images
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-cpython-310/matplotlib/mpl-data/fonts/afm
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nux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Times-Italic.afm -> build/l
ib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/AUTHORS.txt -> bu
ild/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
    copying lib/matplotlib/mpl-data/images/home_large.gif -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSerif-Bold.ttf -> build/lib.li
nux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/afm/pcrbo8a.afm -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/images/ui-icons_5
55555_256x240.png -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_back
end/jquery-ui-1.12.1/images
    copying lib/matplotlib/mpl-data/images/subplots.gif -> build/lib.linux-x86_64-
cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/sample_data/membrane.dat -> build/lib.linux-x8
6_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/stylelib/seaborn-talk.mplstyle -> build/lib.li
nux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/jquery-ui.css ->
build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/images/ui-icons_c
c0000_256x240.png -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_back
end/jquery-ui-1.12.1/images
    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSans-Oblique.ttf -> build/lib.
linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/stylelib/seaborn-dark.mplstyle -> build/lib.li
nux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/sample_data/ada.png -> build/lib.linux-x86_64-
cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/fonts/ttf/STIXSizTwoSymReg.ttf -> build/lib.li
nux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/images/move_large.png -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/backends/web_backend/all_figures.html -> build/lib.linu
x-x86_64-cpython-310/matplotlib/backends/web_backend

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    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSans-Bold.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/images/ui-icons_77777_256x240.png -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1/images
    copying lib/matplotlib/mpl-data/fonts/afm/phvbo8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/images/help.ppm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/afm/pplr8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/afm/pbkdi8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/sample_data/msft.csv -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
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    copying lib/matplotlib/mpl-data/images/hand.svg -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/images/qt4_editor_options.svg -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/backends/web_backend/nbagg_uat.ipynb -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Times-Bold.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/mpl-data/fonts/afm/pagko8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/stylelib/seaborn-muted.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
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    copying lib/matplotlib/mpl-data/fonts/afm/ptmb8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/stylelib/seaborn-dark-palette.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
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    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Times-Roman.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/mpl-data/images/zoom_to_rect_large.png -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/ttf/cmr10.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/stylelib/tableau-colorblind10.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSansMono.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Times-BoldItalic.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/mpl-data/images/home.svg -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images/home.svg

```

```

hon-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/afm/pcrr08a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSans-BoldOblique.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSerifDisplay.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/afm/pncr18a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/ttf/LICENSE_STIX -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/ttf/STIXGeneralBolIta.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/fonts/ttf/STIXNonUniBol.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/stylelib/seaborn-notebook.mplstyle -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/images/zoom_to_rect.svg -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/sample_data/README.txt -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/fonts/afm/pagk8a.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Courier-Oblique.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/mpl-data/fonts/ttf/STIXGeneral.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
    copying lib/matplotlib/mpl-data/images/back.png -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
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    copying lib/matplotlib/mpl-data/fonts/ttf/cmex10.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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    copying lib/matplotlib/mpl-data/fonts/ttf/DejaVuSerif-BoldItalic.ttf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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    copying lib/matplotlib/backends/web_backend/jquery/js/jquery.js -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery/js
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    copying lib/matplotlib/mpl-data/sample_data/goog.npz -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Helvetica-Oblique.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/mpl-data/sample_data/grace_hopper.jpg -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/images/help.pdf -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/images/help.png -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/afm/phvro8an.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Courier-Bold.afm -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts

```

```

ib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/mpl-data/sample_data/percent_bachelors_degrees_women_us
a.csv -> build/lib.linux-x86_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/images/help.svg -> build/lib.linux-x86_64-cpyt
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    copying lib/matplotlib/mpl-data/fonts/ttf/STIXGeneralBol.ttf -> build/lib.linu
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    copying lib/matplotlib/mpl-data/fonts/afm/pncb8a.afm -> build/lib.linux-x86_64
-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/images/matplotlib.svg -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/stylelib/seaborn-bright.mplstyle -> build/lib.
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    copying lib/matplotlib/mpl-data/sample_data/grace_hopper.png -> build/lib.linu
x-x86_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/sample_data/logo2.png -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/stylelib/seaborn-colorblind.mplstyle -> build/
lib.linux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/backends/web_backend/jquery-ui-1.12.1/images/ui-icons_4
44444_256x240.png -> build/lib.linux-x86_64-cpython-310/matplotlib/backends/web_back
end/jquery-ui-1.12.1/images
    copying lib/matplotlib/mpl-data/images/subplots_large.gif -> build/lib.linux-x
86_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/fonts/afm/psyr.afm -> build/lib.linux-x86_64-c
python-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/images/matplotlib.png -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/images
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86_64-cpython-310/matplotlib/mpl-data/stylelib
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ib.linux-x86_64-cpython-310/matplotlib/mpl-data/fonts/pdfcorefonts
    copying lib/matplotlib/mpl-data/fonts/ttf/LICENSE_DEJAVU -> build/lib.linux-x8
6_64-cpython-310/matplotlib/mpl-data/fonts/ttf
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4-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/images/home.gif -> build/lib.linux-x86_64-cpyt
hon-310/matplotlib/mpl-data/images
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6_64-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/fonts/afm/putr8a.afm -> build/lib.linux-x86_64
-cpython-310/matplotlib/mpl-data/fonts/afm
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4-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/images/zoom_to_rect.png -> build/lib.linux-x86
_64-cpython-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/images/forward.svg -> build/lib.linux-x86_64-c
python-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/images/hand.pdf -> build/lib.linux-x86_64-cpyt
hon-310/matplotlib/mpl-data/images
    copying lib/matplotlib/mpl-data/images/zoom_to_rect.pdf -> build/lib.linux-x86
_64-cpython-310/matplotlib/mpl-data/images

```

```

    copying lib/matplotlib/mpl-data/fonts/afm/cmex10.afm -> build/lib.linux-x86_64
-cpython-310/matplotlib/mpl-data/fonts/afm
    copying lib/matplotlib/mpl-data/fonts/pdfcorefonts/Symbol.afm -> build/lib.lin
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    copying lib/matplotlib/mpl-data/images/hand.gif -> build/lib.linux-x86_64-cpyt
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    copying lib/matplotlib/mpl-data/sample_data/ct.raw.gz -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/sample_data
    copying lib/matplotlib/mpl-data/images/move.png -> build/lib.linux-x86_64-cpyt
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uild/lib.linux-x86_64-cpython-310/matplotlib/backends/web_backend/jquery-ui-1.12.1
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4-cpython-310/matplotlib/mpl-data/images
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-cpython-310/matplotlib/mpl-data/fonts/afm
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    copying lib/matplotlib/mpl-data/stylelib/seaborn-ticks.mplstyle -> build/lib.l
inux-x86_64-cpython-310/matplotlib/mpl-data/stylelib
    copying lib/matplotlib/mpl-data/sample_data/None_vs_nearest-pdf.png -> build/l
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    copying lib/matplotlib/mpl-data/stylelib/ggplot.mplstyle -> build/lib.linux-x8
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    copying lib/matplotlib/mpl-data/fonts/afm/phvro8a.afm -> build/lib.linux-x86_6
4-cpython-310/matplotlib/mpl-data/fonts/afm
    UPDATING build/lib.linux-x86_64-cpython-310/matplotlib/_version.py
    set build/lib.linux-x86_64-cpython-310/matplotlib/_version.py to '3.1.3'
    running build_ext
    building 'matplotlib.ft2font' extension
    creating build/temp.linux-x86_64-cpython-310
    creating build/temp.linux-x86_64-cpython-310/src
    gcc -pthread -B /opt/conda/compiler_compat -Wno-unused-result -Wsign-compare -
DNDEBUG -fwrapv -O2 -Wall -fPIC -O2 -isystem /opt/conda/include -fPIC -O2 -isystem /
opt/conda/include -fPIC -DFREETYPE_BUILD_TYPE=system -DPY_ARRAY_UNIQUE_SYMBOL=MPL_ma
tplotlib_ft2font_ARRAY_API -DNPY_NO_DEPRECATED_API=NPY_1_7_API_VERSION -D__STDC_FO
RMAT_MACROS=1 -Iextern/agg24-svn/include -I/opt/conda/lib/python3.10/site-packages/num
py/core/include -I/opt/conda/include/python3.10 -c src/checkdep_freetype2.c -o buil
d/temp.linux-x86_64-cpython-310/src/checkdep_freetype2.o -I/opt/conda/include/freety
pe2

    src/checkdep_freetype2.c:7:9: note: '#pragma message: Compiling with FreeType
version 2.12.1.'
        7 | #pragma message("Compiling with FreeType version " \
          |         ^~~~~~
    gcc -pthread -B /opt/conda/compiler_compat -Wno-unused-result -Wsign-compare -
DNDEBUG -fwrapv -O2 -Wall -fPIC -O2 -isystem /opt/conda/include -fPIC -O2 -isystem /
opt/conda/include -fPIC -DFREETYPE_BUILD_TYPE=system -DPY_ARRAY_UNIQUE_SYMBOL=MPL_ma
tplotlib_ft2font_ARRAY_API -DNPY_NO_DEPRECATED_API=NPY_1_7_API_VERSION -D__STDC_FO
RMAT_MACROS=1 -Iextern/agg24-svn/include -I/opt/conda/lib/python3.10/site-packages/num
py/core/include -I/opt/conda/include/python3.10 -c src/ft2font.cpp -o build/temp.lin
ux-x86_64-cpython-310/src/ft2font.o -I/opt/conda/include/freetype2
    gcc: fatal error: cannot execute 'cc1plus': execvp: No such file or directory

```

```

compilation terminated.
error: command '/usr/bin/gcc' failed with exit code 1
[end of output]

```

**note:** This error originates from a subprocess, and is likely not a problem with pip.

```

ERROR: Failed building wheel for matplotlib
ERROR: Could not build wheels for matplotlib, which is required to install pyproject.toml-based projects

```

```
In [ ]: !pip install protobuf==3.20.*
```

```

Collecting protobuf==3.20.*
  Using cached protobuf-3.20.3-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.whl.metadata (679 bytes)
  Using cached protobuf-3.20.3-cp310-cp310-manylinux_2_12_x86_64.manylinux2010_x86_64.whl (1.1 MB)
Installing collected packages: protobuf
  Attempting uninstall: protobuf
    Found existing installation: protobuf 4.25.3
    Uninstalling protobuf-4.25.3:
      Successfully uninstalled protobuf-4.25.3
Successfully installed protobuf-3.20.3
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

```

```
In [ ]: setup_dependencies_mod2_passed = True
```

```
In [ ]: %store setup_dependencies_mod2_passed
```

```
Stored 'setup_dependencies_mod2_passed' (bool)
```

```
In [ ]:
```

## Setting up S3 Bucket

```
In [ ]: import boto3
import sagemaker

session = boto3.session.Session()
region = session.region_name
sagemaker_session = sagemaker.Session()
bucket = sagemaker_session.default_bucket()

s3 = boto3.Session().client(service_name="s3", region_name=region)
```

```
In [ ]: setup_s3_bucket_passed = False
```

```
In [ ]: print("Default bucket: {}".format(bucket))
```

```
Default bucket: sagemaker-us-east-1-004608622582
```

## Verify S3 Bucket Creation

```
In [ ]: from botocore.client import ClientError

response = None

try:
    response = s3.head_bucket(Bucket=bucket)
    print(response)
    setup_s3_bucket_passed = True
except ClientError as e:
    print("[ERROR] Cannot find bucket {} in {} due to {}".format(bucket, response,
{'ResponseMetadata': {'RequestId': 'XEGCAF43EZGTA14Y', 'HostId': 'IX3C3ea0FjL47xltlH
ljo3HHn+RK20TLKkZA026lVS0h2a/ED+m5FBCIqDhi+v+x2JTQW5hVoUw=', 'HTTPStatusCode': 200,
'HTTPHeaders': {'x-amz-id-2': 'IX3C3ea0FjL47xltlHljo3HHn+RK20TLKkZA026lVS0h2a/ED+m5F
BCIqDhi+v+x2JTQW5hVoUw=', 'x-amz-request-id': 'XEGCAF43EZGTA14Y', 'date': 'Sat, 18 M
ay 2024 01:20:10 GMT', 'x-amz-bucket-region': 'us-east-1', 'x-amz-access-point-alias': 'false', 'content-type': 'application/xml', 'server': 'AmazonS3'}, 'RetryAttempt
s': 0}, 'BucketRegion': 'us-east-1', 'AccessPointAlias': False}
```

```
In [ ]: # Store status
%store setup_s3_bucket_passed
```

Stored 'setup\_s3\_bucket\_passed' (bool)

```
In [ ]: %store
```

Stored variables and their in-db values:

data_path	-> '/root/AAI-540/Module2/csv'
ingest_create_athena_db_mod2_passed	-> True
ingest_create_athena_table_csv_passed	-> True
s3_private_path_csv	-> 's3://sagemaker-us-east-1-00460
8622582/module2_dat	
setup_dependencies_mod2_passed	-> True
setup_s3_bucket_passed	-> True

```
In [ ]: %%html

<p><b>Shutting down your kernel for this notebook to release resources.</b></p>
<button class="sm-command-button" data-commandlinker-command="kernelmenu:shutdown"

<script>
try {
    els = document.getElementsByClassName("sm-command-button");
    els[0].click();
}
catch(err) {
    // NoOp
}
</script>
```

**Shutting down your kernel for this notebook to release resources.**