

```
In [40]: # Visualize data clusters and results
results_map = gis.map("Pittsburgh")
clusters_of_spatial_plot(map_wdg, col="Q1", noise_of_spatial_plot(map_wdg, outline_col="results_map")

Out[40]:
```



```
name = gdb_zip_name.split(".zip")
path_arc = os.path.join(arcgis_dir, "sampled",
                        gdb_zip_name)
path_arc = os.path.join(arcgis_dir, "sampled",
                        gdb_dir_name)
path_det = os.path.join(home_dir, gdb_zip_name)
path_det = os.path.join(home_dir, gdb_dir_name)

# gdb has been copied/unzipped to home dir here
sh_exists(gdb_path_det):
sh_exists(gdb_dir_path_det):
sh_exists(gdb_dir_path_det):
sh_exists(gdb_dir_path_det):

# Zip file to home, unzip it
mv(gdb_zip_path_det, gdb_dir_path_det)
sh_file_exists(gdb_dir_path_det, "*) # Add trailing slash
sh_rm(gdb_dir)
sh_mv(gdb_dir)

# The output full path to /arcgis/home/unzip
os.path.join(gdb_dir_path_det, "*) # Add trailing slash
```

```
_dir_path_arc = os.path.join(arcgis_dir,
                             gdb_dir_name,
                             gdb_dir_name)
_dir_path_det = os.path.join(home_dir,
                              gdb_dir_name,
                              gdb_dir_name)

# If the gdb has been copied/unzipped
os.path.exists(gdb_dir_path_det):
os.remove(gdb_dir_path_det)
os.path.exists(gdb_dir_path_det):
sh_rm(gdb_dir_path_det)

# Copy the zip file to home, unzip it
mv(gdb_zip_path_det, gdb_dir_path_det)
sh_file_exists(gdb_dir_path_det, "*) # Add trailing slash
sh_rm(gdb_dir)
sh_mv(gdb_dir)
```

```
os.path.join(home_dir, "unzip",
             "zip", "zip") # Add trailing slash
sh_rm(gdb_dir)
sh_mv(gdb_dir)

# The output full path to /arcgis/home/unzip
os.path.join(gdb_dir_path_det, "*) # Add trailing slash
```

# 8.0

# ArcGIS® Notebooks

## Python Libraries Manifest

ArcGIS® Notebooks provides a spatially optimized Jupyter experience to create, share, and run data science, data management, and administrative scripts.

With ArcGIS Notebooks, you can perform analysis, automate workflows, and immediately visualize data and analysis results in a geographic context. It is an efficient, modern environment that combines code, real-time visualizations and maps, and data tools.

ArcGIS Notebooks features the ArcGIS Python libraries, ArcGIS API for Python, and ArcPy™. ArcGIS Notebooks also includes access to hundreds of open-source Python libraries and packages.

This publication provides a complete list of the Python libraries—including their versions—that are packaged in the ArcGIS Notebooks runtime version 8.0. The first two lists are for Linux containers, and the second two are for Windows containers.

# ArcGIS Notebooks Runtime

Python 3 Standard (Linux containers) | Version 8.0

## RELEASED

April 2023

## TOTAL PACKAGES

481

## SUPPORTED IN

ArcGIS Enterprise 11.1 and the June 2023 release of ArcGIS Online

In ArcGIS Enterprise, you can customize your notebook environment.

Learn more—read

[Extend a Notebook Runtime.](#)

Library Name	Version
_libgcc_mutex	0.1
_openmp_mutex	5.1
_py-xgboost-mutex	2.0
_tflow_select	2.7.0
absl-py	1.3.0
addict	2.4.0
aenum	3.1.5
affine	2.3.0
aiohttp	3.8.3
aiosignal	1.2.0
alembic	1.8.1
altair	4.1.0
ansiwrap	0.8.4
arcgis	2.1.0.2
argon2-cffi	21.3.0
argon2-cffi-bindings	21.2.0
arviz	0.11.2
astor	0.8.1
asttokens	2.0.5
astunparse	1.6.3
async-timeout	4.0.2
atk-1.0	2.36.0
attrs	22.1.0
aws-c-common	0.4.57
aws-c-event-stream	0.1.6
aws-checksums	0.1.9
aws-sdk-cpp	1.8.185
azure-core	1.12.0
azure-storage-blob	12.8.0
backcall	0.2.0
beautifulsoup4	4.11.1
black	22.6.0
blas	1.0
bleach	4.1.0
blinker	1.4
blosc	1.21.0
bokeh	2.3.3
boost	1.79.0
bottleneck	1.3.5
brotli	1.0.9
brotli-bin	1.0.9
brotlipy	0.7.0
brunli	0.1
bzip2	1.0.8
c-ares	1.18.1
ca-certificates	2023.01.10
cachetools	4.2.2
cairo	1.16.0
catalogue	1.0.0
catboost	0.26
category_encoders	2.2.2
certifi	2022.12.7
cffi	1.15.1
cfitsio	3.470
cftime	1.5.1.1

Library Name	Version
charls	2.2.0
charset-normalizer	2.0.4
click	8.0.4
click-plugins	1.1.1
cliff	3.8.0
cligj	0.7.2
cloudpickle	2.0.0
cmaes	0.8.2
cmd2	2.1.1
colorama	0.4.6
colorcet	3.0.1
colorlog	5.0.1
colour	0.1.5
conda	4.10.3
conda-package-handling	2.0.2
conda-pack-age-streaming	0.7.0
contourpy	1.0.5
cryptography	38.0.4
cuda-toolkit	11.1.1
cuda-nn	8.1.0.77
curl	7.87.0
cycler	0.11.0
cymem	2.0.6
cython	0.29.25
cython-blis	0.4.1
cytoolz	0.12.0
dask	2022.7.0
dask-core	2022.7.0
dask-glm	0.2.0
dask-ml	1.9.0
dataclasses	0.8
dbus	1.13.18
debugpy	1.5.1
decorator	5.1.1
defusedxml	0.7.1
dill	0.3.4
distributed	2022.7.0
dtreeviz	1.3.7
einops	0.3.2
ensemble-boxes	1.0.8
entrypoints	0.4
et_xmlfile	1.1.0
executing	0.8.3
expat	2.4.9
fastai	1.0.63
fastprogress	0.2.3
fasttext	0.9.2
ffmpeg	4.0
fftw	3.3.9
filelock	3.9.0
fiona	1.8.21
flit-core	3.6.0
font-ttf-dejavu-sans-mono	2.37

Library Name	Version
font-ttf-inconsolata	2.001
font-ttf-source-code-pro	2.030
font-ttf-ubuntu	0.83
fontconfig	2.14.1
fonts-anaconda	1
fonts-conda-ecosystem	1
fonttools	4.25.0
freelut	3.0.0
freetype	2.12.1
freexl	1.0.6
fridi	1.0.10
frozenlist	1.3.3
fsspec	2022.11.0
gast	0.5.3
gdal	3.4.1
gdk-pixbuf	2.42.8
geomet	1.0.0
geos	3.8.0
geotiff	1.7.0
giflib	5.2.1
glib	2.69.1
gmp	6.2.1
gmpy2	2.1.2
gobject-introspection	1.72.0
google-auth	2.6.0
google-auth-oauthlib	0.4.1
google-pasta	0.2.0
googledrivedownloader	0.4
graphite2	1.3.14
graphviz	2.50.0
greenlet	2.0.1
grpcio	1.42.0
gtk2	2.24.33
gts	0.7.6
h3-py	3.7.3
h5py	3.7.0
harfbuzz	4.3.0
hdf4	4.2.13
hdf5	1.10.6
heapdict	1.0.1
holoviews	1.14.6
html5lib	1.1
icu	58.2
idna	3.4
imagecodecs	2021.8.26
imageio	2.19.3
importlib-metadata	4.11.3
importlib_metadata	4.11.3
iniconfig	1.1.1
inplace-abn	1.1.0
intel-openmp	2021.4.0
ipykernel	6.15.2
ipyml	0.7.0

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# ArcGIS Notebooks Runtime

Python 3 Standard (Linux containers) | Version 8.0

Library Name	Version
ipython	7.34.0
ipython_genutils	0.2.0
ipywidgets	7.7.2
isodate	0.6.0
jasper	2.0.14
jedi	0.18.1
jeepney	0.7.1
jinja2	3.0.3
joblib	1.1.1
jpeg	9e
json-c	0.13.1
jsonschema	4.16.0
jupyter_client	6.1.12
jupyter_contrib_core	0.4.0
jupyter_contrib_nbextensions	0.5.1
jupyter_core	4.11.2
jupyter_highlight_selected_word	0.2.0
jupyter_latex_envs	1.4.6
jupyter_nbextensions_configurator	0.4.1
jupyterlab_pygments	0.2.2
jupyterlab_widgets	3.0.3
jxrlib	1.1
kealib	1.4.14
keepalive	0.5
keras-base	2.7.0
keras-gpu	2.7.0
keras-preprocessing	1.1.2
keyring	23.4.0
kiwisolver	1.4.4
krb5	1.19.4
laspy	1.7.0
lcms2	2.12
ld_impl_linux-64	2.38
lerc	3.0
libaec	1.0.4
libboost	1.79.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9
libbrotlienc	1.0.9
libcurl	7.87.0
libdap4	3.19.1
libdeflate	1.8
libedit	3.1.20221030
libev	4.33
libffi	3.4.2
libgcc-ng	11.2.0
libgd	2.3.3
libgdal	3.4.1
libgfortran-ng	11.2.0
libgfortran5	11.2.0
libglu	9.0.0
libgomp	11.2.0

Library Name	Version
libkml	1.3.0
libllvm10	10.0.1
libnetcdf	4.8.1
libnghttp2	1.46.0
libopencl	4.5.2
libopus	1.3.1
libpng	1.6.37
libpq	12.9
libprotobuf	3.17.2
libsvg	2.54.4
libsodium	1.0.18
libspatialindex	1.9.3
libspatialite	4.3.0a
libssh2	1.10.0
libstdc++-ng	11.2.0
libtiff	4.3.0
libtool	2.4.6
libuuid	1.41.5
libuv	1.40.0
libvpx	1.7.0
libwebp	1.2.4
libwebp-base	1.2.4
libxcb	1.15
libxgboost	1.5.0
libxml2	2.9.14
libxslt	1.1.35
libzip	1.5.1
libzopfli	1.0.3
lightgbm	3.2.1
llvmlite	0.36.0
locket	1.0.0
lxml	4.9.1
lz4	3.1.3
lz4-c	1.9.4
lzo	2.10
mako	1.2.3
markdown	3.4.1
markupsafe	2.1.1
matplotlib	3.6.0
matplotlib-base	3.6.0
matplotlib-inline	0.1.6
mistune	2.0.4
mkl	2021.4.0
mkl-service	2.4.0
mkl_fft	1.3.1
mkl_random	1.2.2
mljar-supervised	0.11.2
mmcv-full	1.4.0
mmdet	2.19.0
mmsegmentation	0.19.0
mock	4.0.3
mpc	1.1.0
mpfr	4.0.2
mpmath	1.2.1

Library Name	Version
msgpack-python	1.0.3
msrest	0.6.21
multi-scale-deformable-attention	1.0.0
multidict	6.0.2
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
murmurhash	1.0.7
mypy_extensions	0.4.3
nbclient	0.7.0
nbconvert	7.2.1
nbformat	5.6.1
ncurses	6.4
nest-asyncio	1.5.6
netcdf4	1.5.7
networkx	2.8.4
ninja	1.10.2
ninja-base	1.10.2
notebook	6.4.12
ntlm-auth	1.4.0
numba	0.53.1
numexpr	2.8.1
numpy	1.22.3
numpy-base	1.22.3
nvml-py3	7.352.0
oauthlib	3.2.1
olefile	0.46
onnx	1.9.0
onnx-tf	1.8.0
opencv	4.5.2
openjpeg	2.4.0
openpyxl	3.0.10
openssl	1.1.1t
opt_einsum	3.3.0
optuna	2.8.0
packaging	21.3
pandas	1.4.4
pandocfilters	1.5.0
panel	0.12.1
pango	1.50.7
papermill	2.3.4
param	1.12.3
parso	0.8.3
partd	1.2.0
pathspec	0.9.0
patsy	0.5.2
pbr	5.6.0
pcre	8.45
pexpect	4.8.0
pickleshare	0.7.5
pillow	8.3.2
pip	22.3.1
pixman	0.40.0

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# ArcGIS Notebooks Runtime

Python 3 Standard (Linux containers) | Version 8.0

Library Name	Version	Library Name	Version	Library Name	Version
plac	1.1.0	regex	2022.7.9	textwrap3	0.9.2
platformdirs	2.5.2	requests	2.28.1	theano-pymc	1.1.2
plotly	5.5.0	requests-gssapi	1.2.3	thinc	7.4.0
pluggy	1.0.0	requests-kerberos	0.12.0	threadpoolctl	2.2.0
postgresql	12.9	requests-oauthlib	1.3.0	tiffifile	2021.7.2
preshed	3.0.6	requests-toolbelt	0.9.1	tiledb	2.2.9
prettytable	2.1.0	requests_ntlm2	6.4.4	timm	0.4.12
proj	6.2.1	rise	5.7.1	tinycss2	1.1.1
prometheus_client	0.8.0	rsa	4.7.2	tk	8.6.12
prompt_toolkit	3.0.5	rtree	0.9.4	tokenizers	0.10.1
protobuf	3.17.2	ruamel_yaml	0.15.100	tomli	2.0.1
psutil	5.9.0	sacremoses	0.0.43	toolz	0.12.0
ptyprocess	0.7.0	scikit-image	0.18.3	torch-cluster	1.5.9
pure_eval	0.2.2	scikit-learn	1.0.2	torch-geometric	1.7.2
py	1.11.0	scikit-plot	0.3.7	torch-scatter	2.0.7
py-boost	1.79.0	scipy	1.7.3	torch-sparse	0.6.10
py-opencv	4.5.2	seaborn	0.12.1	torch-spline-conv	1.2.1
py-xgboost	1.5.0	secretstorage	3.3.1	torchvision	0.9.2
pyasn1	0.4.8	semver	2.13.0	tornado	6.1
pyasn1-modules	0.2.8	send2trash	1.8.0	tqdm	4.64.1
pybind11	2.10.1	sentencepiece	0.1.95	traitlets	5.5.0
pybind11-global	2.10.1	setuptools	65.6.3	transformers	4.5.1
pycocotools	2.0.2	shap	0.39.0	typeguard	2.13.0
pycosat	0.6.4	shapely	1.8.4	typing	3.10.0.0
pycparser	2.21	simplejson	3.17.6	typing-extensions	4.4.0
pyct	0.5.0	six	1.16.0	typing_extensions	4.4.0
pygments	2.9.0	slicer	0.0.7	tzdata	2022g
pyjwt	2.4.0	snappy	1.1.9	ujson	5.4.0
pykerberos	1.2.1	snuggs	1.4.7	urllib3	1.26.14
pymc3	3.11.4	sortedcontainers	2.4.0	wasabi	0.9.1
pyopenssl	22.0.0	soupsieve	2.3.2.post1	wcwidth	0.2.5
yparsing	3.0.9	spacy	2.2.4	webencodings	0.5.1
pyperclip	1.8.2	sparqlwrapper	1.8.5	werkzeug	2.2.2
pyrsistent	0.18.0	sqlalchemy	1.4.39	wheel	0.37.1
pyshp	2.1.3	sqlite	3.40.1	widetsnbextension	3.6.1
pysocks	1.7.1	srsly	1.0.5	wordcloud	1.8.1
pytables	3.6.1	stack_data	0.5.1	wrapt	1.14.1
pytest	7.1.2	statsmodels	0.13.0	xarray	2022.11.0
python	3.9.16	stevedore	3.3.0	xerces-c	3.2.4
python-dateutil	2.8.2	sympy	1.9	xgboost	1.5.0
python-fastjsonschema	2.16.2	tabulate	0.8.9	xlrd	2.0.1
python-flatbuffers	2.0	tbb	2020.3	xz	5.2.10
python-graphviz	0.20.1	tblib	1.7.0	yaml	0.2.5
python-gssapi	1.8.1	tenacity	8.0.1	yapf	0.31.0
python_abi	3.9	tensorboard	2.7.0	yarl	1.8.1
pytorch	1.8.2	tensorboard-data-server	0.6.1	zeromq	4.3.4
pytz	2022.7	tensorboard-plugin-wit	1.8.1	zfp	0.5.5
pyviz_comms	2.0.2	tensorboardx	2.2	zict	2.1.0
pywavelets	1.4.1	tensorflow-addons	0.15.0	zipp	3.11.0
pyyaml	6.0	tensorflow-estimator	2.7.0	zlib	1.2.13
pyzmq	24.0.1	tensorflow-gpu	2.7.0	zstandard	0.18.0
rasterio	1.2.10	termcolor	2.1.0	zstd	1.4.9
rasterstats	0.16.0	terminado	0.17.1		
rdflib	5.0.0	terminaltables	3.1.0		
readline	8.2				

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# ArcGIS Notebooks Runtime

Python 3 Advanced (Linux containers) | Version 8.0

## RELEASED

April 2023

## TOTAL PACKAGES

486

## SUPPORTED IN

ArcGIS Enterprise 11.1 and the June 2023 release of ArcGIS Online

The use of the Advanced and/or Advanced with GPU runtime consumes credits within ArcGIS Online. See ArcGIS Online [credits by capability](#) for more details.

In ArcGIS Enterprise, you can customize your notebook environment. Learn more—read [Extend a Notebook Runtime](#).

Library Name	Version
_libgcc_mutex	0.1
_openmp_mutex	5.1
_py-xgboost-mutex	2.0
_tflow_select	2.7.0
absl-py	1.3.0
addict	2.4.0
aenum	3.1.5
affine	2.3.0
aiohttp	3.8.3
aiosignal	1.2.0
alembic	1.8.1
altair	4.1.0
ansiwrap	0.8.4
arcgis	2.1.0.2
arcgis-server-py3	11.1.0
argon2-cffi	21.3.0
argon2-cffi-bindings	21.2.0
arviz	0.11.2
astor	0.8.1
asttokens	2.0.5
astunparse	1.6.3
async-timeout	4.0.2
atk-1.0	2.36.0
attrs	22.1.0
aws-c-common	0.4.57
aws-c-event-stream	0.1.6
aws-checksums	0.1.9
aws-sdk-cpp	1.8.185
azure-core	1.12.0
azure-storage-blob	12.8.0
backcall	0.2.0
beautifulsoup4	4.11.1
black	22.6.0
blas	1.0
bleach	4.1.0
blinker	1.4
blosc	1.21.0
bokeh	2.3.3
boost	1.79.0
bottleneck	1.3.5
brotli	1.0.9
brotli-bin	1.0.9
brotlipy	0.7.0
brunli	0.1
bzip2	1.0.8
c-ares	1.18.1
ca-certificates	2023.01.10
cachetools	4.2.2
cairo	1.16.0
catalogue	1.0.0
catboost	0.26
category_encoders	2.2.2
certifi	2022.12.7
cffi	1.15.1
cfitsio	3.470

Library Name	Version
cftime	1.5.1.1
charls	2.2.0
charset-normalizer	2.0.4
click	8.0.4
click-plugins	1.1.1
cliff	3.8.0
cligj	0.7.2
cloudpickle	2.0.0
cmaes	0.8.2
cmd2	2.1.1
colorama	0.4.6
colorcet	3.0.1
colorlog	5.0.1
colour	0.1.5
conda	4.10.3
conda-package-handling	2.0.2
conda-package-streaming	0.7.0
contourpy	1.0.5
cryptography	38.0.4
cuda-toolkit	11.1.1
cudnn	8.1.0.77
curl	7.87.0
cycler	0.11.0
cymem	2.0.6
cython	0.29.25
cython-blis	0.4.1
cytoolz	0.12.0
dask	2022.7.0
dask-core	2022.7.0
dask-glm	0.2.0
dask-ml	1.9.0
dataclasses	0.8
dbus	1.13.18
debugpy	1.5.1
decorator	5.1.1
defusedxml	0.7.1
dill	0.3.4
distributed	2022.7.0
dtreeviz	1.3.7
einops	0.3.2
ensemble-boxes	1.0.8
entrypoints	0.4
et_xmlfile	1.1.0
executing	0.8.3
expat	2.4.9
fastai	1.0.63
fastprogress	0.2.3
fasttext	0.9.2
ffmpeg	4.0
fftw	3.3.9
filelock	3.9.0
fiona	1.8.21
flit-core	3.6.0

Library Name	Version
font-ttf-dejavu-sans-mono	2.37
font-ttf-inconsolata	2.001
font-ttf-source-code-pro	2.030
font-ttf-ubuntu	0.83
fontconfig	2.14.1
fonts-anaconda	1
fonts-conda-ecosystem	1
fonttools	4.25.0
freetglut	3.0.0
freetype	2.12.1
freexl	1.0.6
fridi	1.0.10
frozenlist	1.3.3
fsspec	2022.11.0
future	0.18.2
gast	0.5.3
gdal	3.4.1
gdk-pixbuf	2.42.8
geometa	1.0.0
geos	3.8.0
geotiff	1.7.0
giflib	5.2.1
glib	2.69.1
gmp	6.2.1
gmpy2	2.1.2
gobject-introspection	1.72.0
google-auth	2.6.0
google-auth-oauthlib	0.4.1
google-pasta	0.2.0
googledrivedownloader	0.4
graphite2	1.3.14
graphviz	2.50.0
greenlet	2.0.1
grpcio	1.42.0
gtk2	2.24.33
gts	0.7.6
h3-py	3.7.3
h5py	3.7.0
harfbuzz	4.3.0
hdf4	4.2.13
hdf5	1.10.6
heapdict	1.0.1
holoviews	1.14.6
html5lib	1.1
icu	58.2
idna	3.4
imagecodecs	2021.8.26
imageio	2.19.3
importlib-metadata	4.11.3
importlib_metadata	4.11.3
iniconfig	1.1.1
inplace-abn	1.1.0

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Library Name	Version
intel-openmp	2021.4.0
ipykernel	6.15.2
ipyml	0.7.0
ipython	7.34.0
ipython_genutils	0.2.0
ipywidgets	7.7.2
isodate	0.6.0
jasper	2.0.14
jedi	0.18.1
jeepney	0.7.1
jinja2	3.0.3
joblib	1.1.1
jpeg	9e
json-c	0.13.1
jsonschema	4.16.0
jupyter_client	6.1.12
jupyter_contrib_core	0.4.0
jupyter_contrib_nbextensions	0.5.1
jupyter_core	4.11.2
jupyter_highlight_selected_word	0.2.0
jupyter_latex_envs	1.4.6
jupyter_nbextensions_configurator	0.4.1
jupyterlab_pygments	0.2.2
jupyterlab_widgets	3.0.3
jxrlib	1.1
kealib	1.4.14
keepalive	0.5
keras-base	2.7.0
keras-gpu	2.7.0
keras-preprocessing	1.1.2
keyring	23.4.0
kiwisolver	1.4.4
krb5	1.19.4
laspy	1.7.0
lcms2	2.12
ld_impl_linux-64	2.38
lerc	3.0
libaec	1.0.4
libboost	1.79.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9
libbrotlienc	1.0.9
libcurl	7.87.0
libdap4	3.19.1
libdeflate	1.8
libedit	3.1.20221030
libev	4.33
libffi	3.4.2
libgcc-ng	11.2.0
libgd	2.3.3
libgdal	3.4.1
libgfortran-ng	11.2.0

Library Name	Version
libgfortran5	11.2.0
libglu	9.0.0
libgomp	11.2.0
libkml	1.3.0
libllvm10	10.0.1
libnetcdf	4.8.1
libnhttp2	1.46.0
libopencv	4.5.2
libopus	1.3.1
libpng	1.6.37
libpq	12.9
libprotobuf	3.17.2
libsvg	2.54.4
libsodium	1.0.18
libspatialindex	1.9.3
libspatialite	4.3.0a
libssh2	1.10.0
libstdcxx-ng	11.2.0
libtiff	4.3.0
libtool	2.4.6
libuuid	1.41.5
libuv	1.40.0
libvpx	1.7.0
libwebp	1.2.4
libwebp-base	1.2.4
libxcb	1.15
libxgboost	1.5.0
libxml2	2.9.14
libxslt	1.1.35
libzip	1.5.1
libzopfli	1.0.3
lightgbm	3.2.1
llvmlite	0.36.0
locket	1.0.0
lxml	4.9.1
lz4	3.1.3
lz4-c	1.9.4
lzo	2.10
mako	1.2.3
markdown	3.4.1
markupsafe	2.1.1
matplotlib	3.6.0
matplotlib-base	3.6.0
matplotlib-inline	0.1.6
mistune	2.0.4
mkl	2021.4.0
mkl-service	2.4.0
mkl_fft	1.3.1
mkl_random	1.2.2
mljar-supervised	0.11.2
mmcv-full	1.4.0
mmdet	2.19.0
mmsegmentation	0.19.0
mock	4.0.3
mpc	1.1.0

Library Name	Version
mpfr	4.0.2
mpmath	1.2.1
msgpack-python	1.0.3
msrest	0.6.21
multi-scale-deformable-attention	1.0.0
multidict	6.0.2
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
murmurhash	1.0.7
mypy_extensions	0.4.3
nbclient	0.7.0
nbconvert	7.2.1
nbformat	5.6.1
ncurses	6.4
nest-asyncio	1.5.6
netcdf4	1.5.7
networkx	2.8.4
ninja	1.10.2
ninja-base	1.10.2
nose	1.3.7
notebook	6.4.12
ntlm-auth	1.4.0
numba	0.53.1
numexpr	2.8.1
numpy	1.22.3
numpy-base	1.22.3
nvdiia-ml-py3	7.352.0
oauthlib	3.2.1
olefile	0.46
onnx	1.9.0
onnx-tf	1.8.0
opencv	4.5.2
openjpeg	2.4.0
openpyxl	3.0.10
openssl	1.1.1t
opt_einsum	3.3.0
optuna	2.8.0
packaging	21.3
pandas	1.4.4
pandocfilters	1.5.0
panel	0.12.1
pango	1.50.7
papermill	2.3.4
param	1.12.3
parso	0.8.3
partd	1.2.0
pathspec	0.9.0
patsy	0.5.2
pbr	5.6.0
pcre	8.45
pexpect	4.8.0
pickleshare	0.7.5
pillow	8.3.2

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Library Name	Version	Library Name	Version	Library Name	Version
pip	22.3.1	rasterstats	0.16.0	terminado	0.17.1
pixman	0.40.0	rdflib	5.0.0	terminaltables	3.1.0
plac	1.1.0	readline	8.2	textwrap3	0.9.2
platformdirs	2.5.2	regex	2022.7.9	theano-pymc	1.1.2
plotly	5.5.0	requests	2.28.1	thinc	7.4.0
pluggy	1.0.0	requests-gssapi	1.2.3	threadpoolctl	2.2.0
postgresql	12.9	requests-kerberos	0.12.0	tiffio	2021.7.2
preshed	3.0.6	requests-oauthlib	1.3.0	tiledb	2.2.9
prettytable	2.1.0	requests-toolbelt	0.9.1	timm	0.4.12
proj	6.2.1	requests_ntlm2	6.4.4	tinyccs2	1.1.1
prometheus_client	0.8.0	rise	5.7.1	tk	8.6.12
prompt_toolkit	3.0.5	rsa	4.7.2	tokenizers	0.10.1
protobuf	3.17.2	rtree	0.9.4	tomli	2.0.1
psutil	5.9.0	ruamel_yaml	0.15.100	toolz	0.12.0
ptyprocess	0.7.0	sacremoses	0.0.43	torch-cluster	1.5.9
pure_eval	0.2.2	scikit-image	0.18.3	torch-geometric	1.7.2
py	1.11.0	scikit-learn	1.0.2	torch-scatter	2.0.7
py-boost	1.79.0	scikit-plot	0.3.7	torch-sparse	0.6.10
py-opencv	4.5.2	scipy	1.7.3	torch-spline-conv	1.2.1
py-xgboost	1.5.0	seaborn	0.12.1	torchvision	0.9.2
pyasn1	0.4.8	secretstorage	3.3.1	tornado	6.1
pyasn1-modules	0.2.8	semver	2.13.0	tqdm	4.64.1
pybind11	2.10.1	send2trash	1.8.0	traitlets	5.5.0
pybind11-global	2.10.1	sentencepiece	0.1.95	transformers	4.5.1
pycocotools	2.0.2	setuptools	65.6.3	typeguard	2.13.0
pycosat	0.6.4	shap	0.39.0	typing	3.10.0.0
pycparser	2.21	shapely	1.8.4	typing-extensions	4.4.0
pyct	0.5.0	simplejson	3.17.6	typing_extensions	4.4.0
pygments	2.9.0	six	1.16.0	tzdata	2022g
pyjwt	2.4.0	slicer	0.0.7	ujson	5.4.0
pykerberos	1.2.1	snappy	1.1.9	urllib3	1.26.14
pymc3	3.11.4	snuggs	1.4.7	wasabi	0.9.1
pyopenssl	22.0.0	sortedcontainers	2.4.0	wcwidth	0.2.5
pyparsing	3.0.9	soupsieve	2.3.2.post1	webencodings	0.5.1
pypdf2	1.26.0	spacy	2.2.4	werkzeug	2.2.2
pyperclip	1.8.2	sparqlwrapper	1.8.5	wheel	0.37.1
pyrsistent	0.18.0	sqlalchemy	1.4.39	widetsnbextension	3.6.1
pyshp	2.1.3	sqlite	3.40.1	wordcloud	1.8.1
pysocks	1.7.1	srsly	1.0.5	wrapt	1.14.1
pytables	3.6.1	stack_data	0.5.1	xarray	2022.11.0
pytest	7.1.2	statsmodels	0.13.0	xerces-c	3.2.4
python	3.9.16	stevedore	3.3.0	xgboost	1.5.0
python-dateutil	2.8.2	sympy	1.9	xlrd	2.0.1
python-fastjsonschema	2.16.2	tabulate	0.8.9	xlwt	1.3.0
python-flatbuffers	2.0	tbb	2020.3	xz	5.2.10
python-graphviz	0.20.1	tblib	1.7.0	yaml	0.2.5
python-gssapi	1.8.1	tenacity	8.0.1	yapf	0.31.0
python_abi	3.9	tensorboard	2.7.0	yarl	1.8.1
pytorch	1.8.2	tensorboard-data-server	0.6.1	zeromq	4.3.4
pytz	2022.7	tensorboard-plugin-wit	1.8.1	zfp	0.5.5
pyviz_comms	2.0.2	tensorboardx	2.2	zict	2.1.0
pywavelets	1.4.1	tensorflow-addons	0.15.0	zipp	3.11.0
pyyaml	6.0	tensorflow-estimator	2.7.0	zlib	1.2.13
pyzmq	24.0.1	tensorflow-gpu	2.7.0	zstandard	0.18.0
rasterio	1.2.10	termcolor	2.1.0	zstd	1.4.9

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## RELEASED

April 2023

## TOTAL PACKAGES

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## SUPPORTED IN

ArcGIS Enterprise 11.1

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[Extend a Notebook Runtime.](#)

Library Name	Version
<code>_py-xgboost-mutex</code>	2.0
<code>_tflow_select</code>	2.7.0
<code>abseil-cpp</code>	20210324.2
<code>absl-py</code>	1.3.0
<code>addict</code>	2.4.0
<code>aenum</code>	3.1.5
<code>affine</code>	2.3.0
<code>aiohttp</code>	3.8.3
<code>aiosignal</code>	1.2.0
<code>alembic</code>	1.8.1
<code>altair</code>	4.1.0
<code>ansiwrap</code>	0.8.4
<code>anyio</code>	3.5.0
<code>appdirs</code>	1.4.4
<code>arcgis</code>	2.1.0.3
<code>argon2-cffi</code>	21.3.0
<code>argon2-cffi-bindings</code>	21.2.0
<code>arrow-cpp</code>	1.0.1
<code>arviz</code>	0.11.2
<code>astor</code>	0.8.1
<code>asttokens</code>	2.0.5
<code>astunparse</code>	1.6.3
<code>async-timeout</code>	4.0.2
<code>attrs</code>	22.1.0
<code>azure-core</code>	1.12.0
<code>azure-storage-blob</code>	12.8.0
<code>babel</code>	2.11.0
<code>backcall</code>	0.2.0
<code>beautifulsoup4</code>	4.11.1
<code>black</code>	22.1.0
<code>blas</code>	1.0
<code>bleach</code>	4.1.0
<code>blinker</code>	1.4
<code>blosc</code>	1.21.3
<code>bokeh</code>	2.3.3
<code>boost</code>	1.79.0
<code>bottleneck</code>	1.3.4
<code>brotli</code>	1.0.9
<code>brotli-bin</code>	1.0.9
<code>brotlipy</code>	0.7.0
<code>bzip2</code>	1.0.8
<code>cachetools</code>	4.2.2
<code>cairo</code>	1.14.12
<code>catalogue</code>	1.0.0
<code>catboost</code>	0.26
<code>category_encoders</code>	2.2.2
<code>certifi</code>	2022.12.7
<code>cffi</code>	1.15.1
<code>cfitsio</code>	3.470
<code>cftime</code>	1.6.2
<code>chardet</code>	4.0.0
<code>charls</code>	2.2.0
<code>charset-normalizer</code>	2.0.4
<code>click</code>	8.0.4
<code>click-plugins</code>	1.1.1

Library Name	Version
<code>cliff</code>	3.8.0
<code>cligj</code>	0.7.2
<code>cloudpickle</code>	2.0.0
<code>cmaes</code>	0.8.2
<code>cmd2</code>	2.4.2
<code>colorama</code>	0.4.6
<code>colorcet</code>	3.0.1
<code>colorlog</code>	5.0.1
<code>colour</code>	0.1.5
<code>contourpy</code>	1.0.5
<code>cppzmq</code>	4.4.1
<code>cryptography</code>	38.0.4
<code>cuda-toolkit</code>	11.1.1
<code>cudnn</code>	8.1.0.77
<code>cycler</code>	0.11.0
<code>cymem</code>	2.0.6
<code>cython</code>	0.29.25
<code>cython-blis</code>	0.4.1
<code>cytoolz</code>	0.12.0
<code>dask</code>	2022.7.0
<code>dask-core</code>	2022.7.0
<code>dask-glm</code>	0.2.0
<code>dask-ml</code>	1.9.0
<code>dataclasses</code>	0.8
<code>debugpy</code>	1.5.1
<code>decorator</code>	5.1.1
<code>defusedxml</code>	0.7.1
<code>despatch</code>	0.2.0
<code>dill</code>	0.3.4
<code>distributed</code>	2022.7.0
<code>dtreeviz</code>	1.3.7
<code>einops</code>	0.3.2
<code>ensemble-boxes</code>	1.0.8
<code>entrypoints</code>	0.4
<code>et_xmlfile</code>	1.1.0
<code>exceptiongroup</code>	1.0.0rc9
<code>executing</code>	0.8.3
<code>fastai</code>	1.0.63
<code>fastprogress</code>	0.2.3
<code>fasttext</code>	0.9.2
<code>filelock</code>	3.9.0
<code>fiona</code>	1.8.22
<code>flake8</code>	4.0.1
<code>flatbuffers</code>	2.0.0
<code>flit-core</code>	3.6.0
<code>fonttools</code>	4.25.0
<code>freetype</code>	2.12.1
<code>frozenset</code>	1.3.3
<code>fsspec</code>	2022.11.0
<code>future</code>	0.18.2
<code>gast</code>	0.4.0
<code>gdal</code>	3.4.0
<code>geomet</code>	1.0.0
<code>geos</code>	3.5.0
<code>giflib</code>	5.2.1

Library Name	Version
<code>google-auth</code>	2.6.0
<code>google-auth-oauthlib</code>	0.4.1
<code>google-pasta</code>	0.2.0
<code>googledrivedownloader</code>	0.4
<code>graphviz</code>	2.38
<code>greenlet</code>	2.0.1
<code>grpcio</code>	1.42.0
<code>h3-py</code>	3.7.3
<code>h5py</code>	3.7.0
<code>hd5</code>	1.10.6
<code>heapdict</code>	1.0.1
<code>holoviews</code>	1.14.6
<code>html5lib</code>	1.1
<code>icc_rt</code>	2019.0.5
<code>icu</code>	68.1
<code>idna</code>	3.4
<code>imagecodecs</code>	2021.8.26
<code>imageio</code>	2.26.0
<code>importlib-metadata</code>	6.0.0
<code>importlib_metadata</code>	6.0.0
<code>iniconfig</code>	1.1.1
<code>inplace-abn</code>	1.1.0
<code>intel-openmp</code>	2020.0
<code>ipykernel</code>	6.15.2
<code>ipyml</code>	0.7.0
<code>ipython</code>	7.34.0
<code>ipython_genutils</code>	0.2.0
<code>ipywidgets</code>	7.7.2
<code>isodate</code>	0.6.0
<code>jdcal</code>	1.4.1
<code>jedi</code>	0.18.2
<code>jinja2</code>	3.0.3
<code>joblib</code>	1.1.1
<code>jpeg</code>	9e
<code>json5</code>	0.9.5
<code>jsonschema</code>	4.17.3
<code>jupyter_client</code>	6.1.12
<code>jupyter_console</code>	6.4.2
<code>jupyter_contrib_core</code>	0.4.0
<code>jupyter_contrib_nbextensions</code>	0.6.0
<code>jupyter_core</code>	4.11.2
<code>jupyter_highlight_selected_word</code>	0.2.0
<code>jupyter_latex_envs</code>	1.4.6
<code>jupyter_nbextensions_configurator</code>	0.4.1
<code>jupyter_server</code>	1.21.0
<code>jupyterlab</code>	3.4.8
<code>jupyterlab_pygments</code>	0.2.2
<code>jupyterlab_server</code>	2.16.0
<code>jupyterlab_widgets</code>	3.0.3
<code>keepalive</code>	0.5
<code>keras</code>	2.7.0
<code>keras-base</code>	2.7.0

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Library Name	Version
keras-gpu	2.7.0
keras-preprocessing	1.1.2
keyring	23.4.0
kiwisolver	1.4.4
krb5	1.19.4
laspy	1.7.0
lcms2	2.12
lerc	4.0
libaec	1.0.4
libboost	1.79.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9
libbrotlienc	1.0.9
libcurl	7.86.0
libdeflate	1.8
libnghttp2	1.50.0
libopencv	4.5.2
libpng	1.6.39
libprotobuf	3.19.4
libsodium	1.0.18
libspatialindex	1.9.3
libtiff	4.5.0
libuv	1.40.0
libwebp	1.2.4
libwebp-base	1.2.4
libxgboost	1.5.0
libxml2	2.10.3
libxslt	1.1.37
libzopfli	1.0.3
lightgbm	3.3.5
llvmlite	0.36.0
locket	1.0.0
lxml	4.9.1
lz4	3.1.3
lz4-c	1.9.4
lzo	2.10
mako	1.2.3
markdown	3.4.1
markupsafe	2.1.1
matplotlib	3.6.0
matplotlib-base	3.6.0
matplotlib-inline	0.1.6
mccabe	0.7.0
mistune	2.0.4
mkl	2020.0
mkl-service	2.3.0
mkl_fft	1.3.0
mkl_random	1.2.2
mljar-supervised	0.11.2
mmcv-full	1.4.0
mmdet	2.19.0
mmsegmentation	0.19.0
mock	4.0.3
mpmath	1.2.1
msgpack-python	1.0.3

Library Name	Version
msrest	0.6.21
multi-scale-deformable-attention	1.0.0
multidict	6.0.2
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
murmurhash	1.0.7
mypy_extensions	0.4.3
nbclassic	0.4.8
nbclient	0.7.0
nbconvert	7.2.1
nbformat	5.6.1
nest-asyncio	1.5.6
netcdf4	1.6.1
networkx	2.8.4
ninja	1.10.2
ninja-base	1.10.2
nlohmann_json	3.7.0
nose	1.3.7
notebook	6.4.12
notebook-shim	0.1.0
ntlm-auth	1.4.0
numba	0.53.1
numexpr	2.8.1
numpy	1.20.1
numpy-base	1.20.1
nvml-py3	7.352.0
oauthlib	3.2.0
olefile	0.46
onnx	1.9.0
onnx-tf	1.8.0
opencv	4.5.2
openjpeg	2.4.0
openpyxl	3.0.10
openssl	3.0.7
opt_einsum	3.3.0
optuna	2.8.0
packaging	21.3
pandas	1.4.4
pandocfilters	1.5.0
panel	0.12.1
papermill	2.3.4
param	1.12.3
parso	0.8.3
partd	1.2.0
pathspec	0.9.0
patsy	0.5.2
pbr	5.6.0
pefile	2022.5.30
pexpect	4.8.0
pickleshare	0.7.5
pillow	9.3.0
pip	23.0.1
pixman	0.40.0

Library Name	Version
plac	1.1.0
platformdirs	2.5.2
plotly	5.5.0
pluggy	1.0.0
preshed	3.0.6
prettytable	2.1.0
pro_notebook_integration	3.1
proj	8.2.1
prometheus_client	0.8.0
prompt_toolkit	3.0.5
protobuf	3.19.4
psutil	5.9.0
ptyprocess	0.7.0
pure_eval	0.2.2
py-boost	1.79.0
py-opencv	4.5.2
py-xgboost	1.5.0
pyarrow	1.0.1
pyasn1	0.4.8
pyasn1-modules	0.2.8
pybind11	2.7.1
pybind11_json	0.2.6
pycocotools	2.0.2
pycodestyle	2.8.0
pycparser	2.21
pyct	0.5.0
pyee	8.2.2
pyflakes	2.4.0
pygments	2.9.0
pyjwt	2.4.0
pymc3	3.11.4
pyodbc	4.0.34
pyopenssl	23.0.0
yparsing	3.0.9
pypdf2	1.26.0
pyperclip	1.8.2
pyppeteer	1.0.2
pyrsistent	0.18.0
pyshp	2.1.3
pysocks	1.7.1
pytables	3.6.1
pytest	7.2.0
python	3.9.16
python-certifi-win32	1.6
python-dateutil	2.8.2
python-fastjsonschema	2.16.2
python-flatbuffers	1.12
python-graphviz	0.20.1
python-gssapi	1.8.1
python_abi	3.9
pytorch	1.8.2
pytz	2022.6
pyviz_comms	2.0.2
pywavelets	1.4.1

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Library Name	Version
pywin32-ctypes	0.2.0
pywin32-security	302
pywinpty	2.0.1
pyyaml	6.0
pyzmq	24.0.1
rasterio	1.2.10
rasterstats	0.16.0
rdflib	5.0.0
regex	2022.7.9
requests	2.28.1
requests-gssapi	1.2.3
requests-kerberos	0.12.0
requests-negotiate-sspi	0.5.3
requests-oauthlib	1.3.0
requests-toolbelt	0.9.1
requests_ntlm2	6.4.4
rise	5.7.1
rsa	4.7.2
rtree	0.9.4
sacremoses	0.0.43
saspy	4.3.2
scikit-image	0.18.3
scikit-learn	1.0.2
scikit-plot	0.3.7
scipy	1.6.2
seaborn	0.12.2
semver	2.13.0
send2trash	1.8.0
sentencepiece	0.1.95
setuptools	65.5.1
shap	0.39.0
shapely	1.7.1
simplejson	3.17.6
six	1.16.0
slicer	0.0.7
snappy	1.1.9
sniffio	1.2.0
snuggs	1.4.7
sortedcontainers	2.4.0
soupsieve	2.3.2.post1
spacy	2.2.4
sparqlwrapper	1.8.5
sqlalchemy	1.4.39
sqlite	3.40.1
srsly	1.0.5
stack_data	0.5.1
statsmodels	0.12.2
stevedore	3.3.0
swat	1.12.0
sympy	1.9
tabulate	0.8.9
tbb	2020.3
tblib	1.7.0
tenacity	8.0.1
tensorboard	2.6.0

Library Name	Version
tensorboard-da-ta-server	0.6.1
tensorboard-plugin-wit	1.8.1
tensorboardx	2.2
tensorflow-addons	0.15.0
tensorflow-base	2.7.0
tensorflow-estimator	2.7.0
tensorflow-gpu	2.7.0
termcolor	2.1.0
terminado	0.17.1
terminaltables	3.1.0
testpath	0.5.0
textwrap3	0.9.2
theano-pymc	1.1.2
thinc	7.4.0
threadpoolctl	2.2.0
tifffile	2021.7.2
timm	0.4.12
tinycss2	1.1.1
tokenizers	0.10.1
toml	0.10.2
tomli	2.0.1
toolz	0.12.0
torch-cluster	1.5.9
torch-geometric	1.7.2
torch-scatter	2.0.7
torch-sparse	0.6.10
torch-spline-conv	1.2.1
torchvision	0.9.2
tornado	6.1
tqdm	4.64.1
traitlets	5.5.0
transformers	4.5.1
typed-ast	1.4.3
typingguard	2.13.0
typing	3.10.0.0
typing-extensions	4.4.0
typing_extensions	4.4.0
tzdata	2022g
ujson	5.4.0
urllib3	1.26.14
vc	14.2
vs2015_runtime	14.27.29016
wasabi	0.9.1
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	0.58.0
websockets	10.4
werkzeug	2.2.2
wheel	0.35.1
widetsnbextension	3.6.1
win_inet_pton	1.1.0
wincertstore	0.2
winkerberos	0.8.0
winpty	0.4.3
wordcloud	1.8.1

Library Name	Version
wrapt	1.14.1
x86cpu	0.4
xarray	2022.11.0
xeus	0.24.1
xeus-python	0.8.2
xgboost	1.5.0
xlrd	2.0.1
xlwt	1.3.0
xtl	0.6.15
xz	5.2.10
yaml	0.2.5
yapf	0.31.0
yarl	1.8.1
zeromq	4.3.4
zfp	0.5.5
zict	2.1.0
zipp	3.11.0
zlib	1.2.13
zlib-ng	2.0.6
zstd	1.5.2

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# ArcGIS Notebooks Runtime

## Python 3 Advanced (Windows containers) | Version 8.0

### RELEASED

April 2023

### TOTAL PACKAGES

458

### SUPPORTED IN

ArcGIS Enterprise 11.1

The use of the Advanced and/or Advanced with GPU runtime consumes credits within ArcGIS Online. See ArcGIS Online [credits by capability](#) for more details.

In ArcGIS Enterprise, you can customize your notebook environment. Learn more—read [Extend a Notebook Runtime](#).

Library Name	Version
_py-xgboost-mutex	2.0
_tflow_select	2.7.0
abseil-cpp	20210324.2
absl-py	1.3.0
addict	2.4.0
aenum	3.1.5
affine	2.3.0
aiohttp	3.8.3
aiosignal	1.2.0
alembic	1.8.1
altair	4.1.0
ansiwrap	0.8.4
anyio	3.5.0
appdirs	1.4.4
arcgis	2.1.0.3
arcgispro	3.1
arcpy	3.1
arcpy-base	3.1
argon2-cffi	21.3.0
argon2-cffi-bindings	21.2.0
arrow-cpp	1.0.1
arviz	0.11.2
astor	0.8.1
asttokens	2.0.5
astunparse	1.6.3
async-timeout	4.0.2
attrs	22.1.0
azure-core	1.12.0
azure-storage-blob	12.8.0
babel	2.11.0
backcall	0.2.0
beautifulsoup4	4.11.1
black	22.1.0
blas	1.0
bleach	4.1.0
blinker	1.4
blosc	1.21.3
bokeh	2.3.3
boost	1.79.0
bottleneck	1.3.4
brotli	1.0.9
brotli-bin	1.0.9
brotlipy	0.7.0
bzip2	1.0.8
cachetools	4.2.2
cairo	1.14.12
catalogue	1.0.0
catboost	0.26
category_encoders	2.2.2
certifi	2022.12.7
cffi	1.15.1
cfitsio	3.470
cftime	1.6.2
chardet	4.0.0
charls	2.2.0

Library Name	Version
charset-normalizer	2.0.4
click	8.0.4
click-plugins	1.1.1
cliff	3.8.0
cligj	0.7.2
cloudpickle	2.0.0
cmaes	0.8.2
cmd2	2.4.2
colorama	0.4.6
colorcet	3.0.1
colorlog	5.0.1
colour	0.1.5
contourpy	1.0.5
cppzmq	4.4.1
cryptography	38.0.4
cuda-toolkit	11.1.1
cudnn	8.1.0.77
cycler	0.11.0
cymem	2.0.6
cython	0.29.25
cython-blis	0.4.1
cytoolz	0.12.0
dask	2022.7.0
dask-core	2022.7.0
dask-glm	0.2.0
dask-ml	1.9.0
dataclasses	0.8
debugpy	1.5.1
decorator	5.1.1
defusedxml	0.7.1
despatch	0.2.0
dill	0.3.4
distributed	2022.7.0
dtreeviz	1.3.7
einops	0.3.2
ensemble-boxes	1.0.8
entrypoints	0.4
et_xmlfile	1.1.0
exceptiongroup	1.0.0rc9
executing	0.8.3
fastai	1.0.63
fastprogress	0.2.3
fasttext	0.9.2
filelock	3.9.0
fiona	1.8.22
flake8	4.0.1
flatbuffers	2.0.0
flit-core	3.6.0
fonttools	4.25.0
freetype	2.12.1
frozenlist	1.3.3
fsspec	2022.11.0
future	0.18.2
gast	0.4.0
gdal	3.4.0

Library Name	Version
geomet	1.0.0
geos	3.5.0
giflib	5.2.1
google-auth	2.6.0
google-auth-oauthlib	0.4.1
google-pasta	0.2.0
googledrivedownloader	0.4
graphviz	2.38
grnetlet	2.0.1
grpcio	1.42.0
h3-py	3.7.3
h5py	3.7.0
hdf5	1.10.6
heapdict	1.0.1
holoviews	1.14.6
html5lib	1.1
icc_rt	2019.0.5
icu	68.1
idna	3.4
imagecodecs	2021.8.26
imageio	2.26.0
importlib-metadata	6.0.0
importlib_metadata	6.0.0
iniconfig	1.1.1
inplace-abn	1.1.0
intel-openmp	2020.0
ipykernel	6.15.2
ipyml	0.7.0
ipython	7.34.0
ipython_genutils	0.2.0
ipywidgets	7.7.2
isodate	0.6.0
jdcal	1.4.1
jedi	0.18.2
jinja2	3.0.3
joblib	1.1.1
jpeg	9e
json5	0.9.5
jsonschema	4.17.3
jupyter_client	6.1.12
jupyter_console	6.4.2
jupyter_contrib_core	0.4.0
jupyter_contrib_nbextensions	0.6.0
jupyter_core	4.11.2
jupyter_highlight_selected_word	0.2.0
jupyter_latex_envs	1.4.6
jupyter_nbextensions_configurator	0.4.1
jupyter_server	1.21.0
jupyterlab	3.4.8
jupyterlab_pygments	0.2.2
jupyterlab_server	2.16.0
jupyterlab_widgets	3.0.3

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Library Name	Version
keepalive	0.5
keras	2.7.0
keras-base	2.7.0
keras-gpu	2.7.0
keras-preprocessing	1.1.2
keyring	23.4.0
kiwisolver	1.4.4
krb5	1.19.4
laspy	1.7.0
lcms2	2.12
lerc	4.0
libaec	1.0.4
libboost	1.79.0
libbrotlicommon	1.0.9
libbrotlidec	1.0.9
libbrotlienc	1.0.9
libcurl	7.86.0
libdeflate	1.8
libnghttp2	1.50.0
libopencv	4.5.2
libpng	1.6.39
libprotobuf	3.19.4
libsodium	1.0.18
libspatialindex	1.9.3
libtiff	4.5.0
libuv	1.40.0
libwebp	1.2.4
libwebp-base	1.2.4
libxgboost	1.5.0
libxml2	2.10.3
libxslt	1.1.37
libzopfli	1.0.3
lightgbm	3.3.5
llvmlite	0.36.0
locket	1.0.0
lxml	4.9.1
lz4	3.1.3
lz4-c	1.9.4
lzo	2.10
mako	1.2.3
markdown	3.4.1
markupsafe	2.1.1
matplotlib	3.6.0
matplotlib-base	3.6.0
matplotlib-inline	0.1.6
mccabe	0.7.0
mistune	2.0.4
mkl	2020.0
mkl-service	2.3.0
mkl_fft	1.3.0
mkl_random	1.2.2
mljar-supervised	0.11.2
mmcv-full	1.4.0
mmdet	2.19.0
mmsegmentation	0.19.0

Library Name	Version
mock	4.0.3
mpmath	1.2.1
msgpack-python	1.0.3
msrest	0.6.21
multi-scale-deformable-attention	1.0.0
multidict	6.0.2
multipledispatch	0.6.0
munch	2.5.0
munkres	1.1.4
murmurhash	1.0.7
mypy_extensions	0.4.3
nbclassic	0.4.8
nbclient	0.7.0
nbconvert	7.2.1
nbformat	5.6.1
nest-asyncio	1.5.6
netcdf4	1.6.1
networkx	2.8.4
ninja	1.10.2
ninja-base	1.10.2
nlohmann_json	3.7.0
nose	1.3.7
notebook	6.4.12
notebook-shim	0.1.0
ntlm-auth	1.4.0
numba	0.53.1
numexpr	2.8.1
numpy	1.20.1
numpy-base	1.20.1
nvidia-ml-py3	7.352.0
oauthlib	3.2.0
olefile	0.46
onnx	1.9.0
onnx-tf	1.8.0
opencv	4.5.2
openjpeg	2.4.0
openpyxl	3.0.10
openssl	3.0.7
opt_einsum	3.3.0
optuna	2.8.0
packaging	21.3
pandas	1.4.4
pandocfilters	1.5.0
panel	0.12.1
papermill	2.3.4
param	1.12.3
parso	0.8.3
partd	1.2.0
pathspec	0.9.0
patsy	0.5.2
pbr	5.6.0
pefile	2022.5.30
pexpect	4.8.0
pickleshare	0.7.5

Library Name	Version
pillow	9.3.0
pip	23.0.1
pixman	0.40.0
plac	1.1.0
platformdirs	2.5.2
plotly	5.5.0
pluggy	1.0.0
preshed	3.0.6
prettytable	2.1.0
pro_notebook_integration	3.1
proj	8.2.1
prometheus_client	0.8.0
prompt_toolkit	3.0.5
protobuf	3.19.4
psutil	5.9.0
ptyprocess	0.7.0
pure_eval	0.2.2
py-boost	1.79.0
py-opencv	4.5.2
py-xgboost	1.5.0
pyarrow	10.1
pyasn1	0.4.8
pyasn1-modules	0.2.8
pybind11	2.7.1
pybind11_json	0.2.6
pycocotools	2.0.2
pycodestyle	2.8.0
pycparser	2.21
pyct	0.5.0
pyee	8.2.2
pyflakes	2.4.0
pygments	2.9.0
pyjwt	2.4.0
pymc3	3.11.4
pyodbc	4.0.34
pyopenssl	23.0.0
yparsing	3.0.9
pypdf2	1.26.0
pyperclip	1.8.2
pyppeteer	1.0.2
pyrsistent	0.18.0
pyshp	2.1.3
pysocks	1.7.1
pytables	3.6.1
pytest	7.2.0
python	3.9.16
python-certifi-win32	1.6
python-dateutil	2.8.2
python-fastjsonschema	2.16.2
python-flatbuffers	1.12
python-graphviz	0.20.1
python-gssapi	1.8.1
python_abi	3.9
pytorch	1.8.2

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Library Name	Version
pytz	2022.6
pyviz_comms	2.0.2
pywavelets	1.4.1
pywin32-ctypes	0.2.0
pywin32-security	302
pywinpty	2.0.1
pyyaml	6.0
pyzmq	24.0.1
rasterio	1.2.10
rasterstats	0.16.0
rdflib	5.0.0
regex	2022.7.9
requests	2.28.1
requests-gssapi	1.2.3
requests-kerberos	0.12.0
requests-negotiate-sspi	0.5.3
requests-oauthlib	1.3.0
requests-toolbelt	0.9.1
requests_ntlm2	6.4.4
rise	5.7.1
rsa	4.7.2
rtree	0.9.4
sacremoses	0.0.43
saspy	4.3.2
scikit-image	0.18.3
scikit-learn	1.0.2
scikit-plot	0.3.7
scipy	1.6.2
seaborn	0.12.2
semver	2.13.0
send2trash	1.8.0
sentencepiece	0.1.95
setuptools	65.5.1
shap	0.39.0
shapely	1.7.1
simplejson	3.17.6
six	1.16.0
slicer	0.0.7
snappy	1.1.9
sniffio	1.2.0
snuggs	1.4.7
sortedcontainers	2.4.0
soupsieve	2.3.2.post1
spacy	2.2.4
sparqlwrapper	1.8.5
sqlalchemy	1.4.39
sqlite	3.40.1
srsly	1.0.5
stack_data	0.5.1
statsmodels	0.12.2
stevedore	3.3.0
swat	1.12.0
sympy	1.9
tabulate	0.8.9
tbb	2020.3

Library Name	Version
tblib	1.7.0
tenacity	8.0.1
tensorboard	2.6.0
tensorboard-da-ta-server	0.6.1
tensorboard-plugin-wit	1.8.1
tensorboardx	2.2
tensorflow-addons	0.15.0
tensorflow-base	2.7.0
tensorflow-estimator	2.7.0
tensorflow-gpu	2.7.0
termcolor	2.1.0
terminado	0.17.1
terminaltables	3.1.0
testpath	0.5.0
textwrap3	0.9.2
theano-pymc	1.1.2
thinc	7.4.0
threadpoolctl	2.2.0
tiffio	2021.7.2
timm	0.4.12
tinycss2	1.1.1
tokenizers	0.10.1
toml	0.10.2
tomli	2.0.1
toolz	0.12.0
torch-cluster	1.5.9
torch-geometric	1.7.2
torch-scatter	2.0.7
torch-sparse	0.6.10
torch-spline-conv	1.2.1
torchvision	0.9.2
tornado	6.1
tqdm	4.64.1
traitlets	5.5.0
transformers	4.5.1
typed-ast	1.4.3
typeguard	2.13.0
typing	3.10.0.0
typing-extensions	4.4.0
typing_extensions	4.4.0
tzdata	2022g
ujson	5.4.0
urllib3	1.26.14
vc	14.2
vs2015_runtime	14.27.29016
wasabi	0.9.1
wcwidth	0.2.5
webencodings	0.5.1
websocket-client	0.58.0
websockets	10.4
werkzeug	2.2.2
wheel	0.35.1
widetsnbextension	3.6.1
win_inet_pton	1.1.0
wincertstore	0.2

Library Name	Version
winkerberos	0.8.0
winpty	0.4.3
wordcloud	1.8.1
wrapt	1.14.1
x86cpu	0.4
xarray	2022.11.0
xeus	0.24.1
xeus-python	0.8.2
xgboost	1.5.0
xlrd	2.0.1
xlwt	1.3.0
xtl	0.6.15
xz	5.2.10
yaml	0.2.5
yapf	0.31.0
yaml	1.8.1
zeromq	4.3.4
zfp	0.5.5
zict	2.1.0
zipp	3.11.0
zlib	1.2.13
zlib-ng	2.0.6
zstd	1.5.2

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