



3.0

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 for runtime version 3.0.

ArcGIS Notebooks Runtime

Python 3 Standard Version 3.0

RELEASED

February 20, 2020

TOTAL PACKAGES

301

SUPPORTED IN

ArcGIS Enterprise 10.8 and the ArcGIS Notebooks public beta in ArcGIS Online (March 2020)

With ArcGIS Enterprise you can customize your notebook environment. Learn more at the [ArcGIS Notebook Server website](#).

Library Name	Version
_libgcc_mutex	0.1
_tflow_select	2.3.0
absl-py	0.8.0
affine	2.3.0
ansiwrap	0.8.4
arcgis	1.7.0
asn1crypto	1.0.1
astor	0.8.0
attrs	19.2.0
backcall	0.1.0
backports	1
backports.tempfile	1
backports weakref	1.0.post1
beautifulsoup4	4.7.1
binutils_impl_linux-64	2.31.1
binutils_linux-64	2.31.1
blas	1
bleach	3.1.0
blosc	1.16.3
bokeh	1.3.4
boto3	1.9.234
botocore	1.12.234
bottleneck	1.2.1
bzip2	1.0.8
c-ares	1.15.0
ca-certificates	2019.8.28
cairo	1.14.12
certifi	2019.9.11
cffi	1.12.3
chardet	3.0.4
click	7
click-plugins	1.1.1
cligj	0.5.0
cloudpickle	1.2.2
colorlover	0.2.1
conda	4.6.14
cryptography	2.7
cryptography-vectors	2.7
cudatoolkit	10.0.130
cufflinks-py	0.13.0
curl	7.65.3
cycler	0.10.0
cymem	2.0.2
cython	0.29.13
cython-blis	0.2.4
cytoolz	0.10.0
dask	2.2.0
dask-core	2.2.0
dask-glm	0.2.0
dask-ml	0.12.0

Library Name	Version
dask-searchcv	0.2.0
dataclasses	0.6
decorator	4.4.0
defusedxml	0.6.0
dill	0.3.0
distributed	2.5.2
docutils	0.15.2
entrypoints	0.3
expat	2.2.6
fastai	1.0.54
fastcache	1.1.0
fastprogress	0.1.21
ffmpeg	4
fiona	1.7.12
fontconfig	2.13.0
freeglut	3.0.0
freetype	2.9.1
freexl	1.0.5
fspec	0.5.2
future	0.17.1
gast	0.3.2
gcc_impl_linux-64	7.3.0
gcc_linux-64	7.3.0
gdal	2.2.4
geos	3.6.2
giflib	5.1.4
glib	2.56.2
gmp	6.1.2
gmpy2	2.0.8
graphite2	1.3.13
grpcio	1.16.1
gxx_impl_linux-64	7.3.0
gxx_linux-64	7.3.0
h5py	2.8.0
harfbuzz	1.8.8
hdf4	4.2.13
hdf5	1.10.2
heapdict	1.0.1
holoviews	1.10.4
html5lib	1.0.1
icu	58.2
idna	2.8
imageio	2.6.0
intel-openmp	2019.4
ipykernel	5.1.2
ipython	7.8.0
ipython_genutils	0.2.0
ipywidgets	7.3.1
jasper	2.0.14
jedi	0.15.1

Library Name	Version
jeepney	0.4.1
jinja2	2.10.3
jmespath	0.9.4
joblib	0.13.2
jpeg	9b
json-c	0.13.1
jsonschema	3.0.2
jupyter	1.0.0
jupyter_client	5.3.4
jupyter_console	6.0.0
jupyter_contrib_core	0.3.3
jupyter_contrib_nbextensions	0.5.1
jupyter_core	4.6.0
jupyter_highlight_selected_word	0.2.0
jupyter_latex_envs	1.4.4
jupyter_nbextensions_configurator	0.4.1
kealib	1.4.7
keras	2.2.4
keras-applications	1.0.8
keras-base	2.2.4
keras-preprocessing	1.1.0
keyring	13.2.1
kiwisolver	1.1.0
krb5	1.16.1
libboost	1.67.0
libcurl	7.65.3
libdap4	3.19.1
libedit	3.1.20181209
libffi	3.2.1
libgcc-ng	9.1.0
libgdal	2.2.4
libgfortran-ng	7.3.0
libglu	9.0.0
libgpubarray	0.7.6
libkml	1.3.0
libnetcdf	4.6.1
libopencv	3.4.2
libopus	1.3
libpng	1.6.37
libpq	11.2
libprotobuf	3.8.0
libsodium	1.0.16
libspatialindex	1.8.5
libspatialite	4.3.0a
libssh2	1.8.2
libstdcxx-ng	9.1.0
libtiff	4.0.10
libuuid	1.0.3

ArcGIS Notebooks Runtime

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Library Name	Version
libvpx	1.7.0
libxcb	1.13
libxml2	2.9.9
libxslt	1.1.33
llvmlite	0.29.0
loket	0.2.0
lxml	4.2.3
lz4-c	1.8.1.2
mako	1.1.0
markdown	3.1.1
markupsafe	1.1.1
matplotlib	3.0.1
mistune	0.8.4
mkl	2019.4
mkl-service	1.1.2
mkl_fft	1.0.12
mkl_random	1.0.2
mock	3.0.5
mpc	1.1.0
mpfr	4.0.1
mpmath	1.1.0
msgpack-python	0.6.1
multipledispatch	0.6.0
munch	2.3.2
murmurhash	1.0.2
nbconvert	5.5.0
nbformat	4.4.0
ncurses	6.1
networkx	2.3
ninja	1.9.0
nodejs	10.13.0
notebook	6.0.1
numba	0.45.1
numexpr	2.6.9
numpy	1.16.4
numpy-base	1.16.4
nvidia-ml-py3	7.352.0
olefile	0.46
opencv	3.4.2
openjpeg	2.3.0
openssl	1.1.1d
packaging	19.2
pandas	0.25.1
pandocfilters	1.4.2
papermill	1.2.0
param	1.9.2
parso	0.5.1
partd	1.0.0
patsy	0.5.1
pcre	8.43

Library Name	Version
pexpect	4.7.0
pickleshare	0.7.5
pillow	6.2.0
pip	19.2.3
pixman	0.38.0
plac	0.9.6
plotly	4.1.1
plotly_express	0.4.1
preshed	2.0.1
proj4	4.9.3
prometheus_client	0.7.1
prompt_toolkit	2.0.10
protobuf	3.8.0
psutil	5.6.3
ptyprocess	0.6.0
py-opencv	3.4.2
pycosat	0.6.3
pycparser	2.19
pycrypto	2.6.1
pygments	2.4.2
pygpu	0.7.6
pymc3	3.5
pyopenssl	19.0.0
pyparsing	2.4.2
pyrsistent	0.15.4
pyshp	1.2.12
pysocks	1.7.1
pytables	3.4.4
python	3.6.9
python-dateutil	2.8.0
pytorch	1.1.0
pytz	2019.3
pywavelets	1.0.3
pyyaml	5.1.2
pyzmq	18.1.0
rasterio	0.36.0
rasterstats	0.13.0
readline	7
requests	2.22.0
retrying	1.3.3
rise	5.4.1
rtree	0.8.3
ruamel_yaml	0.15.46
s3transfer	0.2.1
scikit-image	0.15.0
scikit-learn	0.21.1
scipy	1.2.1
seaborn	0.9.0
secretstorage	3.1.0
send2trash	1.5.0

Library Name	Version
setuptools	41.4.0
shapely	1.6.4
simplejson	3.16.0
six	1.12.0
snappy	1.1.7
snuggs	1.4.7
sortedcontainers	2.1.0
soupsieve	1.9.3
spacy	2.1.8
sqlalchemy	1.3.9
sqlite	3.30.0
srsly	0.1.0
statsmodels	0.10.1
sympy	1.3
tblib	1.4.0
tenacity	5.1.1
tensorboard	1.13.1
tensorflow	1.13.1
tensorflow-base	1.13.1
tensorflow-estimator	1.13.0
termcolor	1.1.0
terminado	0.8.2
testpath	0.4.2
textwrap3	0.9.2
theano	1.0.3
thinc	7.0.8
tini	0.18.0
tk	8.6.8
toolz	0.10.0
torchvision	0.3.0
tornado	6.0.3
tqdm	4.36.1
traitlets	4.3.3
typing	3.6.4
urllib3	1.24.2
vincent	0.4.4
wasabi	0.2.2
wcwidth	0.1.7
webencodings	0.5.1
werkzeug	0.16.0
wheel	0.33.6
widetsnbextension	3.3.1
xerces-c	3.2.2
xlrd	1.2.0
xz	5.2.4
yaml	0.1.7
zeromq	4.3.1
zict	1.0.0
zlib	1.2.11
zstd	1.3.7

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_libgcc_mutex	0.1
_tflow_select	2.3.0
absl-py	0.8.0
affine	2.3.0
ansiwrap	0.8.4
arcgis	1.7.0
arcgis-server-py3	10.8.0
asn1crypto	1.0.1
astor	0.8.0
attrs	19.2.0
backcall	0.1.0
backports	1
backports.tempfile	1
backports.weakref	1.0.post1
beautifulsoup4	4.7.1
binutils_impl_linux-64	2.31.1
binutils_linux-64	2.31.1
blas	1
bleach	3.1.0
blosc	1.16.3
bokeh	1.3.4
boto3	1.9.234
botocore	1.12.234
bottleneck	1.2.1
bzip2	1.0.8
c-ares	1.15.0
ca-certificates	2019.8.28
cairo	1.14.12
certifi	2019.9.11
cffi	1.12.3
cftime	1.0.0b1
chardet	3.0.4
click	7
click-plugins	1.1.1
cligj	0.5.0
cloudpickle	1.2.2
colorlover	0.2.1
conda	4.6.14
cryptography	2.7
cryptography-vectors	2.7
cuda-toolkit	10.0.130
cufflinks-py	0.13.0
curl	7.65.3
cycler	0.10.0
cymem	2.0.2
cython	0.29.13
cython-blis	0.2.4
cytoolz	0.10.0
dask	2.2.0
dask-core	2.2.0
dask-glm	0.2.0
dask-ml	0.12.0

Library Name	Version
dask-searchcv	0.2.0
dataclasses	0.6
decorator	4.4.0
defusedxml	0.6.0
dill	0.3.0
distributed	2.5.2
docutils	0.15.2
entrypoints	0.3
et_xmlfile	1.0.1
expat	2.2.6
fastai	1.0.54
fastcache	1.1.0
fastprogress	0.1.21
ffmpeg	4
fiona	1.8.4
fontconfig	2.13.0
freeglut	3.0.0
freetype	2.9.1
freexl	1.0.5
fsspec	0.5.2
future	0.17.1
gast	0.3.2
gcc_impl_linux-64	7.3.0
gcc_linux-64	7.3.0
gdal	2.3.3
geos	3.7.1
giflib	5.1.4
glib	2.56.2
gmp	6.1.2
gmpy2	2.0.8
graphite2	1.3.13
grpcio	1.16.1
gxx_impl_linux-64	7.3.0
gxx_linux-64	7.3.0
h5py	2.9.0
harfbuzz	1.8.8
hdf4	4.2.13
hdf5	1.10.4
heapdict	1.0.1
holoviews	1.10.4
html5lib	1.0.1
icu	58.2
idna	2.8
imageio	2.6.0
intel-openmp	2019.4
ipykernel	5.1.2
ipython	7.8.0
ipython_genutils	0.2.0
ipywidgets	7.3.1
jasper	2.0.14
jdcal	1.4.1
jedi	0.15.1

Library Name	Version
jeepney	0.4.1
jinja2	2.10.3
jmespath	0.9.4
joblib	0.13.2
jpeg	9b
json-c	0.13.1
jsonschema	3.0.2
jupyter	1.0.0
jupyter_client	5.3.4
jupyter_console	6.0.0
jupyter_contrib_core	0.3.3
jupyter_contrib_nbextensions	0.5.1
jupyter_core	4.6.0
jupyter_highlight_selected_word	0.2.0
jupyter_latex_envs	1.4.4
jupyter_nbextensions_configurator	0.4.1
kealib	1.4.7
keras	2.2.4
keras-applications	1.0.8
keras-base	2.2.4
keras-preprocessing	1.1.0
keyring	13.2.1
kiwisolver	1.1.0
krb5	1.16.1
libboost	1.67.0
libcurl	7.65.3
libdap4	3.19.1
libedit	3.1.20181209
libffi	3.2.1
libgcc-ng	9.1.0
libgdal	2.3.3
libgfortran-ng	7.3.0
libglu	9.0.0
libgpparray	0.7.6
libkml	1.3.0
libnetcdf	4.6.1
libopus	1.3
libpng	1.6.37
libpq	11.2
libprotobuf	3.8.0
libsodium	1.0.16
libspatialindex	1.8.5
libspatialite	4.3.0a
libssh2	1.8.2
libstdcxx-ng	9.1.0
libtiff	4.0.10
libuuid	1.0.3
libvpx	1.7.0
libxcb	1.13
libxml2	2.9.9

ArcGIS Notebooks Runtime

Python 3 Advanced Version 3.0

Library Name	Version
libxslt	1.1.33
llvmlite	0.29.0
locket	0.2.0
lxml	4.2.3
lz4-c	1.8.1.2
lzo	2.1
mako	1.1.0
markdown	3.1.1
markupsafe	1.1.1
matplotlib	3.0.1
mistune	0.8.4
mkl	2019.4
mkl-service	1.1.2
mkl_fft	1.0.12
mkl_random	1.0.2
mock	3.0.5
mpc	1.1.0
mpfr	4.0.1
mpmath	1.1.0
msgpack-python	0.6.1
multipledispatch	0.6.0
munch	2.3.2
murmurhash	1.0.2
nbconvert	5.5.0
nbformat	4.4.0
ncurses	6.1
netcdf4	1.4.2
networkx	2.3
ninja	1.9.0
nodejs	10.13.0
nose	1.3.7
notebook	6.0.1
numba	0.45.1
numexpr	2.6.9
numpy	1.16.4
numpy-base	1.16.4
nvidia-ml-py3	7.352.0
olefile	0.46
openjpeg	2.3.0
openpyxl	3.0.0
openssl	1.1.1d
packaging	19.2
pandas	0.25.1
pandocfilters	1.4.2
papermill	1.2.0
param	1.9.2
parso	0.5.1
partd	1.0.0
patsy	0.5.1
pcre	8.43
pexpect	4.7.0
pickleshare	0.7.5

Library Name	Version
pillow	6.2.0
pip	19.2.3
pixman	0.38.0
plac	0.9.6
plotly	4.1.1
plotly_express	0.4.1
poppler	0.65.0
poppler-data	0.4.9
preshed	2.0.1
proj4	5.2.0
prometheus_client	0.7.1
prompt_toolkit	2.0.10
protobuf	3.8.0
psutil	5.6.3
ptyprocess	0.6.0
py	1.8.0
pycosat	0.6.3
pycparser	2.19
pycrypto	2.6.1
pygments	2.4.2
pygpu	0.7.6
pymc3	3.5
pyopenssl	19.0.0
pyparsing	2.4.2
pypdf2	1.26.0
pyrsistent	0.15.4
pyshp	1.2.12
pysocks	1.7.1
pytables	3.4.4
python	3.6.9
python-dateutil	2.8.0
pytorch	1.1.0
pytz	2019.3
pywavelets	1.0.3
pyyaml	5.1.2
pyzmq	18.1.0
rasterio	1.0.21
rasterstats	0.13.0
readline	7
requests	2.22.0
retrying	1.3.3
rise	5.4.1
rtree	0.8.3
ruamel_yaml	0.15.46
s3transfer	0.2.1
scikit-image	0.15.0
scikit-learn	0.21.1
scipy	1.2.1
seaborn	0.9.0
secretstorage	3.1.0
send2trash	1.5.0
setuptools	41.4.0

Library Name	Version
shapely	1.6.4
simplejson	3.16.0
six	1.12.0
snappy	1.1.7
snuggs	1.4.7
sortedcontainers	2.1.0
soupsieve	1.9.3
spacy	2.1.8
sqlalchemy	1.3.9
sqlite	3.30.0
srsly	0.1.0
statsmodels	0.10.1
sympy	1.3
tblib	1.4.0
tenacity	5.1.1
tensorboard	1.13.1
tensorflow	1.13.1
tensorflow-base	1.13.1
tensorflow-estimator	1.13.0
termcolor	1.1.0
terminado	0.8.2
testpath	0.4.2
textwrap3	0.9.2
theano	1.0.3
thinc	7.0.8
tini	0.18.0
tk	8.6.8
toolz	0.10.0
torchvision	0.3.0
tornado	6.0.3
tqdm	4.36.1
traitlets	4.3.3
typing	3.6.4
urllib3	1.24.2
vincent	0.4.4
wasabi	0.2.2
wcwidth	0.1.7
webencodings	0.5.1
werkzeug	0.16.0
wheel	0.33.6
widgetsnbextension	3.3.1
xerces-c	3.2.2
xlrd	1.2.0
xlwt	1.3.0
xz	5.2.4
yaml	0.1.7
zeromq	4.3.1
zict	1.0.0
zlib	1.2.11
zstd	1.3.7