

Section 1: Initial setup, import and cleanup data

1a: Import all libraries and install packages needed for this analysis

```
In [1]: # import all libraries and install packages upfront so we can efficiently rerun the rest of the code and tweak it as often as needed
import numpy as np
import pandas as pd

!conda install -c conda-forge lxml --yes
!conda install -c conda-forge geopy --yes

pd.set_option('display.max_columns', None)
pd.set_option('display.max_rows', None)

import json # library to handle JSON files

import requests # library to handle requests
from pandas.io.json import json_normalize # transform JSON file into a pandas dataframe

# Matplotlib and associated plotting modules
import matplotlib.cm as cm
import matplotlib.colors as colors

# import k-means from clustering stage
from sklearn.cluster import KMeans

!pip install folium
import folium

print('All libraries imported.')
```

```
Collecting package metadata (current_repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible
solve.
Solving environment: failed with repodata from current_repodata.json, will re
try with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible
solve.
Solving environment: |
Found conflicts! Looking for incompatible packages.
This can take several minutes. Press CTRL-C to abort.
```

|failed

UnsatisfiableError: The following specifications were found
to be incompatible with the existing python installation in your environment:

Specifications:

```
- cffi -> python[version='2.7.*|3.5.*|3.6.*|3.6.12|3.6.12|>=3.6,<3.7.0a0|>=
3.7,<3.8.0a0|>=3.9,<3.10.0a0|>=3.8,<3.9.0a0|3.7.9|3.6.9|3.6.9|>=2.7,<2.
8.0a0|3.6.9|>=3.5,<3.6.0a0|3.4.*',build='2_73_pypy|4_73_pypy|5_73_pypy|3_73_p
ypy|1_73_pypy|0_73_pypy']
- rsa -> python[version='2.7.*|3.4.*|3.5.*|3.6.*']
```

Your python: python=3.7

If python is on the left-most side of the chain, that's the version you've as
ked for.

When python appears to the right, that indicates that the thing on the left i
s somehow
not available for the python version you are constrained to. Note that conda
will not
change your python version to a different minor version unless you explicitly
specify
that.

The following specifications were found to be incompatible with each other:

Output in format: Requested package -> Available versions

Package bzip2 conflicts for:

```
pytables -> bzip2[version='1.0.*|>=1.0.6,<2.0a0|>=1.0.8,<2.0a0']
ibm-wsrt-py37main-main -> bzip2==1.0.8[build=*]
python=3.7 -> bzip2[version='>=1.0.6,<2.0a0|>=1.0.8,<2.0a0']
```

Package libgcc-ng conflicts for:

```
cytoolz -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
ncurses -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
unixodbc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
statsmodels -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
cffi -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
jpeg -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
ninja -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
blosc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
readline -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
protobuf -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
```

libxgboost -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=5.4.0|>=7.2.0']
regex -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
openssl -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
krb5 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
yaml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyrsistent -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
markupsafe -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
tensorflow-base -> libgcc-ng[version='>=5.4.0|>=7.2.0']
ibm-wsrt-py37main-main -> libgcc-ng==9.1.0[build=*]
brotlipy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
scikit-learn -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libpng -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pillow -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
numpy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
python=3.7 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pandas -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
fastcache -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mkl_random -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
hdf5 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mkl_fft -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
dbus -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
multidict -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
tensorboard -> libgcc-ng[version='>=7.2.0|>=7.3.0']
pyzmq -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libsodium -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libuuid -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=9.3.0']
snappy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
sqlalchemy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
bzip2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libprotobuf -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
grpcio -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
gmp -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libxslt -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
libtiff -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
astropy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scipy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
matplotlib-base -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
libxml2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libxcb -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
libffi -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
cryptography -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
matplotlib -> libgcc-ng[version='>=7.2.0|>=7.3.0']
numpy-base -> libgcc-ng[version='>=7.2.0|>=7.3.0']
tk -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
zstd -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
psycopg2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
sqlite -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyqt -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pytorch -> libgcc-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
freetype -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
h5py -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
kiwisolver -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
glib -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
xz -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pymssql -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0']
lzo -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']

```
libpq -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
icu -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
numexpr -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
qt -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
gst-plugins-base -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.
0']
yaml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libedit -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
py-xgboost -> libgcc-ng[version='>=4.9|>=7.3.0|>=5.4.0|>=7.2.0']
cx_oracle -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
aiohttp -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
sip -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
gstreamer -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
blas -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
biopython -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
wrapt -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
lxml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pytables -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyyaml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
lcms2 -> libgcc-ng[version='>=7.3.0|>=7.5.0']
c-ares -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0']
expat -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
tornado -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pcre -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
pyodbc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
fontconfig -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pywavelets -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mkl-service -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
lz4-c -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mistune -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
zlib -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
scikit-image -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
zeromq -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
```

Package subprocess32 conflicts for:

```
matplotlib-base -> subprocess32
jupyterlab -> subprocess32
matplotlib -> subprocess32
```

Package libstdcxx-ng conflicts for:

```
glib -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
qt -> libstdcxx-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
scipy -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
py-xgboost -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=5.4.0|>=7.2.0']
libxgboost -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=5.4.0|>=
7.2.0']
python=3.7 -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
krb5 -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
tensorboard -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
libtiff -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libprotobuf -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scikit-image -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pytables -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
gst-plugins-base -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.
2.0']
pandas -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
freetype -> libstdcxx-ng[version='>=4.9']
```

```
numpy -> libstdcxx-ng[version='>=4.9|>=7.3.0']
gmp -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
tensorflow-base -> libstdcxx-ng[version='>=5.4.0|>=7.2.0']
ibm-wsrt-py37main-main -> libstdcxx-ng==9.1.0[build=*]
sip -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libffi -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
mkl_fft -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
pcre -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.2.0']
biopython -> libstdcxx-ng[version='>=7.2.0']
pyzmq -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
matplotlib-base -> libstdcxx-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
expat -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
sqlite -> libstdcxx-ng[version='>=4.9|>=7.3.0']
ninja -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
grpcio -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
protobuf -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyqt -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
snappy -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
kiwisolver -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
lz4-c -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
scikit-learn -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mkl_random -> libstdcxx-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
matplotlib -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
yaml -> libstdcxx-ng[version='>=7.3.0']
numexpr -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pymssql -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0']
pyodbc -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
hdf5 -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
icu -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
zeromq -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
blosc -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pytorch -> libstdcxx-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
unixodbc -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0']
ncurses -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
zstd -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
```

Package pypy3.7 conflicts for:

```
markupsafe -> pypy3.7[version='>=7.3.3']
pyzmq -> pypy3.7[version='>=7.3.3']
tornado -> pypy3.7[version='>=7.3.3']
pyyaml -> pypy3.7[version='>=7.3.3']
nbconvert -> pypy3.7[version='>=7.3.3']
jupyter_core -> pypy3.7[version='>=7.3.3']
pywavelets -> pypy3.7[version='>=7.3.3']
protobuf -> pypy3.7[version='>=7.3.3']
kiwisolver -> pypy3.7[version='>=7.3.3']
future -> pypy3.7[version='>=7.3.3']
biopython -> pypy3.7[version='>=7.3.3']
brotlipy -> pypy3.7[version='>=7.3.3']
pytest -> pypy3.7[version='>=7.3.3']
scikit-image -> pypy3.7[version='>=7.3.3']
notebook -> pypy3.7[version='>=7.3.3']
cryptography -> pypy3.7[version='>=7.3.3']
multidict -> pypy3.7[version='>=7.3.3']
pandas -> pypy3.7[version='>=7.3.3']
mock -> pypy3.7[version='>=7.3.3']
bokeh -> pypy3.7[version='>=7.3.3']
```

```
mistune -> pypy3.7[version='>=7.3.3']
astropy -> pypy3.7[version='>=7.3.3']
numpy -> pypy3.7[version='>=7.3.3']
chardet -> pypy3.7[version='>=7.3.3']
pysocks -> pypy3.7[version='>=7.3.3']
scikit-learn -> pypy3.7[version='>=7.3.3']
lxml -> pypy3.7[version='>=7.3.3']
certifi -> pypy3.7[version='>=7.3.3']
numexpr -> pypy3.7[version='>=7.3.3']
scipy -> pypy3.7[version='>=7.3.3']
pyrsistent -> pypy3.7[version='>=7.3.3']
cffi -> pypy3.7=7.3.3
sympy -> pypy3.7[version='>=7.3.3']
matplotlib-base -> pypy3.7[version='>=7.3.3']
sqlalchemy -> pypy3.7[version='>=7.3.3']
pytables -> pypy3.7[version='>=7.3.3']
pillow -> pypy3.7[version='>=7.3.3']
terminado -> pypy3.7[version='>=7.3.3']
pluggy -> pypy3.7[version='>=7.3.3']
widgetsnbextension -> pypy3.7[version='>=7.3.3']
yarl -> pypy3.7[version='>=7.3.3']
aiohttp -> pypy3.7[version='>=7.3.3']
regex -> pypy3.7[version='>=7.3.3']
secretstorage -> pypy3.7[version='>=7.3.3']
jedi -> pypy3.7[version='>=7.3.3']
python=3.7 -> pypy3.7=7.3.3
keyring -> pypy3.7[version='>=7.3.3']
setuptools -> pypy3.7[version='>=7.3.3']
cytoolz -> pypy3.7[version='>=7.3.3']
wrapt -> pypy3.7[version='>=7.3.3']
matplotlib -> pypy3.7[version='>=7.3.3']
docutils -> pypy3.7[version='>=7.3.3']
cx_oracle -> pypy3.7[version='>=7.3.3']
importlib-metadata -> pypy3.7[version='>=7.3.3']
ipython -> pypy3.7[version='>=7.3.3']
ipykernel -> pypy3.7[version='>=7.3.3']
```

Package jinja2 conflicts for:

```
jupyterlab_server -> jinja2[version='>2.10*|>=2.10']
notebook -> jinja2
bokeh -> jinja2[version='>=2.7']
nbconvert -> jinja2[version='>=2.4']
ibm-wsrt-py37main-main -> jinja2==2.11.2[build=*]
jupyterlab -> jinja2[version='>=2.10']
```

Package libxcb conflicts for:

```
qt -> libxcb[version='>=1.12,<2.0a0|>=1.13,<2.0a0']
gst-plugins-base -> libxcb[version='>=1.12,<2.0a0|>=1.13,<2.0a0|>=1.14,<2.0a0|>=1.15']
ibm-wsrt-py37main-main -> libxcb==1.14[build=*]
```

Package libgfortran4 conflicts for:

```
blas -> libgfortran4[version='>=7.5.0']
hdf5 -> libgfortran4[version='>=7.5.0']
scipy -> libgfortran4[version='>=7.5.0']
libgfortran-ng -> libgfortran4=7.5.0
```

```
Package prompt-toolkit conflicts for:
ipython -> prompt-toolkit[version='!=3.0.0,!~3.0.1,<3.1.0,>=2.0.0|>=2.0.0,!~3.0.0,!~3.0.1,<3.1.0']
ibm-wsrt-py37main-main -> prompt-toolkit==3.0.5[build=*]

Package pypy3.6 conflicts for:
jupyter_core -> pypy3.6[version='>=7.3.2|>=7.3.3']
pyzmq -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
beautifulsoup4 -> pypy3.6[version='>=7.3.1']
pysocks -> pypy3.6[version='>=7.3.2|>=7.3.3']
pillow -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
certifi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
brotlipy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
matplotlib -> pypy3.6[version='>=7.3.2|>=7.3.3']
scikit-learn -> pypy3.6[version='>=7.3.2|>=7.3.3']
regex -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
aiohttp -> pypy3.6[version='>=7.3.2|>=7.3.3']
pytest -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
absl-py -> pypy3.6[version='>=7.3.1|>=7.3.2']
tornado -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
multidict -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
chardet -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
cx_oracle -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
pyrsistent -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
entrypoints -> pypy3.6[version='>=7.3.2']
numexpr -> pypy3.6[version='>=7.3.2|>=7.3.3']
importlib-metadata -> pypy3.6[version='>=7.3.1|>=7.3.3']
pandas -> pypy3.6[version='>=7.3.1|>=7.3.2']
scipy -> pypy3.6[version='>=7.3.1|>=7.3.2']
kiwisolver -> pypy3.6[version='>=7.3.2|>=7.3.3']
protobuf -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
numpy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
setuptools -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
matplotlib-base -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
ipykernel -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
statsmodels -> pypy3.6[version='>=7.3.3']
ipython -> pypy3.6[version='>=7.3.1|>=7.3.3']
wrapt -> pypy3.6[version='>=7.3.2|>=7.3.3']
jedi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
pickleshare -> pypy3.6[version='>=7.3.2']
yarl -> pypy3.6[version='>=7.3.2|>=7.3.3']
mistune -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
soupsieve -> pypy3.6[version='>=7.3.1']
cryptography -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
future -> pypy3.6[version='>=7.3.2|>=7.3.3']
pluggy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
ninja -> pypy3.6[version='>=7.3.1']
cffi -> pypy3.6[version='7.3.0.*|7.3.1.*|7.3.2.*|7.3.3.*']
docutils -> pypy3.6[version='>=7.3.2|>=7.3.3']
lxml -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
notebook -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
biopython -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
markupsafe -> pypy3.6[version='>=7.3.2|>=7.3.3']
bokeh -> pypy3.6[version='>=7.3.1|>=7.3.2']
widgetsnbextension -> pypy3.6[version='>=7.3.1|>=7.3.2']
scikit-image -> pypy3.6[version='>=7.3.2']
sympy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
```

```
psycopg2 -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
sqlalchemy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
s3transfer -> pypy3.6[version='>=7.3.2']
pywavelets -> pypy3.6[version='>=7.3.1|>=7.3.2']
cytoolz -> pypy3.6[version='>=7.3.3']
pyyaml -> pypy3.6[version='>=7.3.2|>=7.3.3']
mock -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
keyring -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
nbconvert -> pypy3.6[version='>=7.3.1|>=7.3.2']
secretstorage -> pypy3.6[version='>=7.3.2']
terminado -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

Package pysocks conflicts for:
urllib3 -> pysocks[version='>=1.5.6,<2.0,!>=1.5.7']
ibm-wsrt-py37main-main -> pysocks==1.7.1[build=*]

Package libedit conflicts for:
ibm-wsrt-py37main-main -> libedit==3.1.20191231[build=*]
unixodbc -> libedit[version='>=3.1.20170329,<3.2.0a0|>=3.1.20191231,<3.2.0a0|>]
sqlite -> libedit[version='>=3.1.20170329,<3.2.0a0|>=3.1.20181209,<3.2.0a0|>=3.1.20191231,<3.2.0a0|>]
krb5 -> libedit[version='>=3.1,<4.0a0|>=3.1.20170329,<3.2.0a0|>=3.1.20170329,<4.0a0|>=3.1.20191231,<3.2.0a0|>=3.1.20191231,<4.0a0|>=3.1.20181209,<3.2.0a0|>=3.1.20181209,<4.0a0|>]

Package backports.weakref conflicts for:
tensorflow-estimator -> backports.weakref[version='>=1.0rc1']
tensorflow-base -> backports.weakref[version='>=1.0.0inf.1,<2.0a0|>=1.0|>=1.0rc1']

Package mkl conflicts for:
tensorflow-base -> mkl[version='>=2018.0.2,<2019.0a0|>]
numpy -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.1,<2019.0a0|>=2018.0.2,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.3,<2021.0a0|>=2019.4,<2021.0a0|>]
ibm-wsrt-py37main-main -> mkl==2020.1[build=*]
scikit-learn -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.3,<2021.0a0|>=2019.4,<2021.0a0|>]
mkl_random -> mkl[version='>=2018.0.3,<2019.0a0|>=2019.1,<2020.0a0|>=2019.3,<2020.0a0|>=2019.4,<2020.0a0|>=2020.0,<2021.0a0|>=2020.2,<2021.0a0|>=2020.1,<2021.0a0|>=2019.4,<2021.0a0|>=2019.1,<2021.0a0|>]
pytorch -> mkl[version='2019.*|>=2020.4,<2021.0a0|>=2019.4,<2021.0a0|>=2019.1,<2021.0a0|>=2018.0.3,<2019.0a0|>=2018.0.2,<2019.0a0|>=2018.0.3,<2019.0a0|>=2018.0.2,<2019.0a0|>=2018.0.1,<2019.0a0|>=2018.0.0,<2019.0a0|>=2018.0.1,<2019.0a0|>=2018.0.2,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.4,<2021.0a0|>]
mkl_fft -> mkl[version='>=2018.0.3,<2019.0a0|>=2019.1,<2020.0a0|>=2019.3,<2020.0a0|>=2019.4,<2020.0a0|>=2020.2,<2021.0a0|>=2019.4,<2021.0a0|>=2019.3,<2021.0a0|>=2019.1,<2021.0a0|>]
mkl_service -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.3,<2020.0a0|>=2019.4,<2020.0a0|>=2020.2,<2021.0a0|>=2019.4,<2021.0a0|>=2019.3,<2021.0a0|>]
blas -> mkl
scipy -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.2,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.4,<2021.0a0|>]
```

```
Package decorator conflicts for:
ibm-wsrt-py37main-main -> decorator==4.4.2[build=*]
networkx -> decorator[version='>=3.4.0|>=4.3.0|>=4.1.0']
plotly -> decorator[version='>=4.0.6']
ipython -> decorator
traitlets -> decorator

Package rsa conflicts for:
ibm-wsrt-py37main-main -> rsa==4.6[build=*]
google-auth -> rsa[version='>=3.1.4,<4.1|>=3.1.4,<5|>=3.1.4,<4dev']

Package certifi conflicts for:
requests -> certifi[version='>=2017.4.17']
urllib3 -> certifi
setuptools -> certifi[version='>=2016.09|>=2016.9.26']
tornado -> certifi
ibm-wsrt-py37main-main -> certifi==2020.12.5[build=*]
matplotlib-base -> certifi[version='>=2020.06.20']

Package scikit-learn conflicts for:
ibm-wsrt-py37main-main -> scikit-learn==0.23.1[build=*]
py-xgboost -> scikit-learn
nltk -> scikit-learn

Package setuptools conflicts for:
sympy -> setuptools
ibm-wsrt-py37main-main -> setuptools==47.3.1[build=*]
networkx -> setuptools
jinja2 -> setuptools
pygments -> setuptools
grpcio -> setuptools
pip -> setuptools
plotly -> setuptools
bleach -> setuptools
markdown -> setuptools[version='>=36']
matplotlib -> setuptools
wheel -> setuptools
astropy -> setuptools
jsonschema -> setuptools
joblib -> setuptools
google-auth -> setuptools[version='>=40.3.0']
protobuf -> setuptools
matplotlib-base -> setuptools
numexpr -> setuptools
pytest -> setuptools[version='>=40.0']
tensorboard -> setuptools[version='>=41.0.0|>=41.4']
ipython -> setuptools[version='>=18.5']

Package xz conflicts for:
gstreamer -> xz[version='>=5.2.3,<6.0a0|>=5.2.4,<5.3.0a0']
python=3.7 -> xz[version='>=5.2.3,<5.3.0a0|>=5.2.4,<5.3.0a0|>=5.2.5,<5.3.0a0|
>=5.2.5,<6.0a0|>=5.2.4,<6.0a0']
gst-plugins-base -> xz[version='>=5.2.3,<6.0a0|>=5.2.4,<5.3.0a0']
libtiff -> xz[version='5.0.*|5.2.*|>=5.2.3,<5.3.0a0|>=5.2.4,<5.3.0a0|>=5.2.5,
<5.3.0a0|>=5.2.5,<6.0a0|>=5.2.4,<6.0a0|>=5.2.3,<6.0a0']
ibm-wsrt-py37main-main -> xz==5.2.5[build=*
```

```
libxml2 -> xz[version='5.0.*|5.2.*']>=5.2.3,<5.3.0a0|>=5.2.4,<5.3.0a0|>=5.2.5,  
<5.3.0a0|>=5.2.5,<6.0a0|>=5.2.4,<6.0a0|>=5.2.3,<6.0a0'  
zstd -> xz[version='']>=5.2.4,<5.3.0a0|>=5.2.5,<5.3.0a0|>=5.2.5,<6.0a0|>=5.2.4,  
<6.0a0']  
  
Package importlib-metadata conflicts for:  
pytest -> importlib-metadata[version='']>=0.12'  
markdown -> importlib-metadata  
ibm-wsrt-py37main-main -> importlib-metadata==1.6.1[build=*]  
keyring -> importlib-metadata  
importlib_metadata -> importlib-metadata[version='']>=1.1.3,<1.1.4.0a0|>=1.5.0,  
<1.5.1.0a0|>=1.5.2,<1.5.3.0a0|>=1.6.0,<1.6.1.0a0|>=1.6.1,<1.6.2.0a0|>=1.7.0,<  
1.7.1.0a0|>=2.0.0,<2.0.1.0a0|>=3.0.0,<3.0.1.0a0|>=3.1.0,<3.1.1.0a0|>=3.1.1,<  
3.1.2.0a0|>=3.3.0,<3.3.1.0a0|>=3.4.0,<3.4.1.0a0'  
  
Package libtiff conflicts for:  
qt -> libtiff[version='4.0.*']>=4.0.10,<5.0a0'  
ibm-wsrt-py37main-main -> libtiff==4.1.0[build=*]  
pillow -> libtiff[version='4.*|4.0.*']>=4.0.10,<5.0a0|>=4.1.0,<5.0a0|>=4.0.9,<  
5.0a0|>=4.0.8,<4.0.10|>=4.0.3,<4.0.8|4.0.6|>=4.0.8,<5.0a0'  
lcms2 -> libtiff[version='']>=4.0.10,<5.0a0|>=4.1.0,<5.0a0'  
  
Package libiconv conflicts for:  
unixodbc -> libiconv[version='']>=1.15,<1.17.0a0|>=1.16,<1.17.0a0'  
libxml2 -> libiconv[version='1.15']>=1.15,<1.17.0a0|>=1.16,<1.17.0a0'  
fontconfig -> libiconv[version='1.15']>=1.15,<1.17.0a0'  
glib -> libiconv[version='1.15']>=1.15,<1.17.0a0|>=1.16,<1.17.0a0'  
  
Package ipython_genutils conflicts for:  
traitlets -> ipython_genutils  
notebook -> ipython_genutils  
nbformat -> ipython_genutils  
ibm-wsrt-py37main-main -> ipython_genutils==0.2.0[build=*]  
  
Package backports.functools_lru_cache conflicts for:  
wcwidth -> backports.functools_lru_cache  
soupsieve -> backports.functools_lru_cache  
matplotlib -> backports.functools_lru_cache  
matplotlib-base -> backports.functools_lru_cache  
  
Package snappy conflicts for:  
ibm-wsrt-py37main-main -> snappy==1.1.8[build=*]  
blosc -> snappy[version='1.1.6']>=1.1.8,<2.0a0|>=1.1.7,<2.0a0'  
  
Package testpath conflicts for:  
nbconvert -> testpath  
ibm-wsrt-py37main-main -> testpath==0.4.4[build=*]  
  
Package nbformat conflicts for:  
plotly -> nbformat[version='']>=4.2'  
ipywidgets -> nbformat[version='']>=4.2.0'  
notebook -> nbformat  
widgetsnbextension -> nbformat[version='']>=4.2.0'  
ibm-wsrt-py37main-main -> nbformat==5.0.7[build=*]  
nbconvert -> nbformat[version='']>=4.4'  
  
Package ipykernel conflicts for:
```

```
ibm-wsrt-py37main-main -> ipykernel==5.3.0[build=*]
widgetsnbextension -> ipykernel[version='>=4.5.1']
notebook -> ipykernel
ipywidgets -> ipykernel[version='>=4.2.2|>=4.5.1']

Package numpy conflicts for:
astropy -> numpy[version='1.11.*|1.12.*|1.13.*|>=1.10|>=1.11|>=1.13|>=1.14|>=1.16.5,<2.0a0|>=1.16|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19|>=1.17|>=1.9|>=1.16.6,<2.0a0|>=1.19.2,<2.0a0|>=1.17.0,<2.0a0|>=1.17.4,<2.0a0|>=1.13.3,<2.0a0|>=1.14.6,<2.0a0|>=1.11.3,<2.0a0|>=1.10.4,<2.0a0|>=1.9.3,<2.0a0|>=1.14.1,<2.0a0|>=1.14.0,<2.0a0'|]
mkl-service -> numpy[version='>=1.11.3,<2.0a0'|]
mkl_random -> numpy[version='>=1.11.3,<2.0a0|>=1.11|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.9.3,<2.0a0|>=1.14,<2.0a0'|]
pytables -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.11.3,<2.0a0'|]
mkl_fft -> numpy[version='>=1.11|>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.19.2,<2.0a0'|]
tensorflow-base -> numpy[version='>=1.12.1,<2.0a0|>=1.13.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.1,<2.0a0|>=1.16.6,<2.0a0|>=1.16.5,<2.0a0'|]
pytorch -> numpy[version='>=1.11|>=1.11.3,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.14.6,<2.0a0|>=1.9.3,<2.0a0|>=1.9'|]
pandas -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.*|>=1.12.1,<2.0a0|>=1.14.6,<2.0a0|>=1.15.4,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.18.4,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.9.*|>=1.9|>=1.8|>=1.7|>=1.13.3,<2.0a0|>=1.11.3,<2.0a0'|]
ibm-wsrt-py37main-main -> numpy==1.18.5[build=*]
biopython -> numpy[version='1.11.*|1.12.*|1.13.*|>=1.8|>=1.11.3,<2.0a0|>=1.9.3,<2.0a0|>=1.14.1,<2.0a0'|]
scikit-image -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.13.3,<2.0a0'|]
bokeh -> numpy[version='>=1.11.3|>=1.7.1'|]
scikit-learn -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.18.5,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.9'|]
scipy -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.9|>=1.15.1,<2.0a0'|]
opt_einsum -> numpy
py-xgboost -> numpy
keras-applications -> numpy[version='>=1.9.1']
tensorboard -> numpy[version='>=1.12|>=1.12.0|>=1.16']
matplotlib-base -> numpy[version='>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.15.4,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0'|]
patsy -> numpy[version='>=1.4.0']
h5py -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.8,<1.14|>=1.16.6,<2.0a0|>=1.11.3,<2.0a0'|]
pywavelets -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.16.6,<2.0a0|>=1.11.3,<2.0a0'|]
tensorflow-estimator -> numpy[version='>=1.13.3|>=1.16.1']
```

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nltk -> numpy
imageio -> numpy
matplotlib -> numpy[version='1.10.*|1.11.*|>=1.14.6,<2.0a0']
seaborn -> numpy[version='>=1.13.3|>=1.9.3']
arcgis=1.6.0 -> numpy
statsmodels -> numpy[version='1.10.*|1.11.*|>=1.11|>=1.14.6,<2.0a0|>=1.15.4,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.17.5,<2.0a0|>=1.9.3,<2.0a0|>=1.17.0,<2.0a0|>=1.19.1,<2.0a0|>=1.11.3,<2.0a0']
keras-preprocessing -> numpy[version='>=1.9.1']
numexpr -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.3|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.11.3,<2.0a0|>=1.16.4,<2.0a0|>=1.15.4,<2.0a0']

Package mkl-service conflicts for:
numpy -> mkl-service[version='>=2,<3.0a0']
scipy -> mkl-service[version='>=2,<3.0a0']
mkl_fft -> mkl-service[version='>=2,<3.0a0']
numexpr -> mkl-service[version='>=2,<3.0a0']
numpy-base -> mkl-service[version='>=2,<3.0a0']
ibm-wsrt-py37main-main -> mkl-service==2.3.0[build=*]
mkl_random -> mkl-service[version='>=2,<3.0a0']
scikit-learn -> mkl-service[version='>=2,<3.0a0']
pytorch -> mkl-service[version='>=2,<3.0a0']

Package pyqt conflicts for:
matplotlib -> pyqt[version='4.11.*|>=5.12.3,<5.13.0a0|>=5.6.0,<5.7.0a0|>=5.9.2,<5.10.0a0|5.9.*|>=5.6,<6.0a0|5.*|5.6.*']
ibm-wsrt-py37main-main -> pyqt==5.9.2[build=*]

Package joblib conflicts for:
ibm-wsrt-py37main-main -> joblib==0.16.0[build=*]
nltk -> joblib
scikit-learn -> joblib[version='>=0.11']

Package pickleshare conflicts for:
ipython -> pickleshare
ibm-wsrt-py37main-main -> pickleshare==0.7.5[build=*]

Package jupyter_core conflicts for:
jupyter_client -> jupyter_core[version='>=4.6.0']
jupyterlab -> jupyter_core
nbformat -> jupyter_core
ibm-wsrt-py37main-main -> jupyter_core==4.6.3[build=*]
nbconvert -> jupyter_core
notebook -> jupyter_core[version='>=4.4.0|>=4.6.0|>=4.6.1']

Package python_abi conflicts for:
notebook -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp39|*_cp38']
typing_extensions -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp36m|*_cp37m|*_pypy36_pp73|*_cp38|*_cp27mu']
numexpr -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp39|*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp38']
cx_oracle -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp39|*_cp37m|*_cp38|*_cp27mu']
```

```
entrypoints -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_cp36m|*_pypy36_pp73|*_cp37m|*_cp38|*_cp39']  
cytoolz -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.9.*|3.7',build='*_cp36m|*_pypy36_pp73|*_cp37m|*_cp38|*_cp39|*_pypy37_pp73']  
future -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_pypy37_pp73|*_cp39|*_cp37m|*_cp36m|*_cp38|*_pypy36_pp73|*_cp27mu']  
matplotlib -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp36m|*_pypy36_pp73|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73']  
pyrsistent -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp36m|*_pypy36_pp73|*_cp39|*_cp37m|*_pypy37_pp73|*_cp38|*_cp27mu']  
dill -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp36m|*_pypy36_pp73|*_cp38|*_cp27mu|*_cp37m']  
ipython -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp39|*_cp37m|*_cp38']  
ipykernel -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*|3.7|3.9.*',build='*_pypy36_pp73|*_cp36m|*_cp38|*_cp37m|*_pypy37_pp73|*_cp39']  
pytorch -> python_abi[version='3.6.*|3.7.*|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_cp37m|*_cp38']  
requests -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp36m|*_cp37m|*_pypy36_pp73|*_cp38|*_cp27mu']  
scikit-learn -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.7.*|3.9.*',build='*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp38|*_cp37m|*_cp39']  
pillow -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp37m|*_cp39|*_cp38']  
pluggy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp39|*_cp38']  
multidict -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.7|3.9.*',build='*_cp36m|*_pypy36_pp73|*_cp37m|*_cp38|*_pypy37_pp73|*_cp39']  
jsonschema -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_cp37m|*_cp38|*_cp27mu']  
scipy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp38|*_cp39|*_cp36m']  
traitlets -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp37m|*_cp38|*_pypy36_pp73|*_cp27mu']  
pyyaml -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp36m|*_pypy36_pp73|*_cp37m|*_cp39|*_pypy37_pp73|*_cp38|*_cp27mu']  
fastcache -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp37m|*_cp39|*_cp38|*_cp27mu']  
cryptography -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.7|3.8.*',build='*_pypy37_pp73|*_cp39|*_cp37m|*_cp36m|*_cp38|*_pypy36_pp73|*_cp27mu']  
mistune -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.8.*|3.7.*',build='*_pypy36_pp73|*_cp37m|*_cp36m|*_cp39|*_pypy37_pp73|*_cp38|*_cp27mu']  
pandas -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.9.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp39|*_cp37m|*_cp38']  
yarl -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp39|*_cp38']  
sqlalchemy -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.7.*|3.8.*|3.9.*',build='*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp37m|*_cp38|*_cp39|*_cp27mu']  
pytables -> python_abi[version='3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy37_pp73|*_cp37m|*_cp36m|*_cp39|*_cp38']  
jupyter_core -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.7|3.8.*|3.9.*',build='*_cp27mu|*_pypy36_pp73|*_pypy37_pp73|*_cp38|*_cp37m|*_cp39|*_cp36m']  
tornado -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*|3.9.*|3.7',build='*_pypy36_pp73|*_cp36m|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73']  
mock -> python_abi[version='2.7.*|3.6.*|3.6|3.9.*|3.7.*|3.7|3.8.*',build='*_cp36m|*_pypy36_pp73|*_cp39|*_cp37m|*_pypy37_pp73|*_cp38|*_cp27mu']  
biopython -> python_abi[version='3.6|3.6.*|3.9.*|3.7.*|3.7|3.8.*',build='*_py
```

py36_pp73|*_cp36m|*_cp39|*_cp37m|*_pypy37_pp73|*_cp38']
soupsieve -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp37m|*_cp38|*_pypy36_pp73|*_cp27mu']
pyzmq -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.9.*|3.7.*|3.7',build='*_cp27mu|*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy37_pp73|*_pypy36_pp73']
mk1-service -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp37m|*_cp39|*_cp38']
python=3.7 -> python_abi==3.7[build='*_pypy37_pp73']
absl-py -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*|3.9.*',build='*_py36_pp73|*_cp36m|*_cp38|*_cp37m|*_cp39|*_cp27mu']
wrapt -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp36m|*_pypy36_pp73|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73|*_cp27mu']
psycopg2 -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp36m|*_cp37m|*_cp39|*_cp38']
pymssql -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp39|*_cp37m|*_cp38']
matplotlib-base -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp36m|*_pypy36_pp73|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73|*_cp27mu']
nbconvert -> python_abi[version='3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp39|*_cp37m|*_cp38']
kiwisolver -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp36m|*_pypy36_pp73|*_cp37m|*_cp39|*_pypy37_pp73|*_cp38|*_cp27mu']
cffi -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_pypy36_pp73|*_cp36m|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73']
setuptools -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp39|*_cp38']
mk1_random -> python_abi[version='3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp37m|*_cp38']
grpcio -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_pypy36_pp73|*_cp39|*_cp38|*_cp37m|*_cp36m']
keyring -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp37m|*_cp39|*_cp38']
certifi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp36m|*_pypy37_pp73|*_cp37m|*_pypy36_pp73|*_cp39|*_cp38']
pexpect -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*',build='*_cp37m|*_cp27mu|*_pypy36_pp73|*_cp36m|*_cp38']
pysocks -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7.*|3.8.*|3.7',build='*_pypy36_pp73|*_cp36m|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73|*_cp27mu']
glib -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_pypy36_pp73|*_cp36m|*_cp37m|*_cp38|*_cp27mu']
jedi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp39|*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp38|*_cp27mu']
h5py -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp39|*_cp37m|*_cp36m|*_cp38']
docutils -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_pypy37_pp73|*_cp39|*_cp37m|*_cp36m|*_cp38|*_pypy36_pp73|*_cp27mu']
terminado -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp39|*_cp37m|*_cp38']
regex -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_cp36m|*_pypy36_pp73|*_cp37m|*_cp39|*_cp38|*_pypy37_pp73']
statsmodels -> python_abi[version='3.6|3.6.*|3.8.*|3.9.*|3.7.*',build='*_pypy36_pp73|*_cp36m|*_cp39|*_cp38|*_cp37m']
beautifulsoup4 -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp37m|*_cp38|*_pypy36_pp73']
lxml -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_pypy36_pp73|*_cp36m|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73|*_cp27mu']

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pywavelets -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.9.*|3.7.*',build='*_c
p36m|*_pypy36_pp73|*_pypy37_pp73|*_cp38|*_cp39|*_cp37m']
markupsafe -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.7.*|3.8.*',buil
d='*_pypy36_pp73|*_cp36m|*_cp39|*_pypy37_pp73|*_cp37m|*_cp38|*_cp27mu']
importlib-metadata -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.
8.*',build='*_cp27mu|*_pypy36_pp73|*_cp36m|*_cp37m|*_pypy37_pp73|*_cp39|*_cp3
8']
ninja -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*',build='*_pypy36_pp73|*_cp
36m|*_cp38|*_cp37m']
brotlipy -> python_abi[version='3.6|3.6.*|3.7|3.9.*|3.8.*|3.7.*',build='*_pyp
y36_pp73|*_cp37m|*_cp36m|*_pypy37_pp73|*_cp39|*_cp38']
pyqt -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp39|*_
cp37m|*_cp38']
s3transfer -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_pypy3
6_pp73|*_cp39|*_cp37m|*_cp38|*_cp36m']
sip -> python_abi[version='3.6.*|3.8.*|3.9.*|3.7.*',build='*_cp36m|*_cp39|*_c
p38|*_cp37m']
pickleshare -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build
='*_cp27mu|*_cp36m|*_pypy36_pp73|*_cp37m|*_cp38|*_cp39']
sympy -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_
pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp37m|*_cp39|*_cp38|*_cp27mu']
pyodbc -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp27mu|
*_cp36m|*_cp39|*_cp37m|*_cp38']
pytest -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.9.*|3.7.*',build='*_cp37m
|*_pypy36_pp73|*_cp39|*_cp38|*_pypy37_pp73|*_cp36m']
urllib3 -> python_abi[version='2.7.*|3.8.*|3.6.*|3.6|3.7.*',build='*_cp36m|*_c
p27mu|*_cp38|*_pypy36_pp73|*_cp37m']
chardet -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build
='*_pypy36_pp73|*_cp36m|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73|*_cp27mu']
aiohttp -> python_abi[version='3.6|3.6.*|3.8.*|3.9.*|3.7.*|3.7',build='*_pypy
36_pp73|*_cp36m|*_cp38|*_cp39|*_cp37m|*_pypy37_pp73']
mk1_fft -> python_abi[version='3.6.*|3.9.*|3.8.*|3.7.*',build='*_cp36m|*_cp39
|*_cp38|*_cp37m']
bokeh -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp36m|
*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp39|*_cp38']
py-xgboost -> python_abi[version='3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp36m|*_c
p38|*_cp37m|*_cp39']
tensorflow-base -> python_abi[version='3.6.*|3.7.*',build='*_cp36m|*_cp37m']
widgetsnbextension -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',bu
ild='*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp37m|*_cp39|*_cp38']
protobuf -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.8.*|3.9.*',build='*_pyp
y36_pp73|*_cp37m|*_pypy37_pp73|*_cp36m|*_cp38|*_cp39']
astropy -> python_abi[version='3.6.*|3.7.*|3.7|3.8.*|3.9.*',build='*_cp36m|*_
pypy37_pp73|*_cp38|*_cp39|*_cp37m']
secretstorage -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',b
uild='*_cp27mu|*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp39|*_cp37m|*_cp38']
numpy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_cp36m|
*_pypy36_pp73|*_cp39|*_cp38|*_cp37m|*_pypy37_pp73']
scikit-image -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_c
p36m|*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp39|*_cp38']
```

Package tornado conflicts for:

```
ibm-wsrt-py37main-main -> tornado==6.0.4[build=*]
terminado -> tornado[version='>=4']
matplotlib-base -> tornado
jupyter_client -> tornado[version='>=4.1|>=4.1,<6']
jupyterlab -> tornado[version='!=6.0.0,!>=6.0.1,!>=6.0.2|>=6.1|>=6.1.0']
```

```
bokeh -> tornado[version='>=4.3,<4.5|>=4.3|>=5|>=5.1']
matplotlib -> tornado
notebook -> tornado[version='>=4|>=4,<6|>=4.1,<7|>=5.0,<7|>=5.0|>=6.1']
ipykernel -> tornado[version='>=4.0|>=4.2']

Package wheel conflicts for:
tensorboard -> wheel[version='>=0.26']
pip -> wheel
ibm-wsrt-py37main-main -> wheel==0.34.2[build=*]

Package attrs conflicts for:
aiohttp -> attrs[version='>=17.3.0|>=17.4.0']
ibm-wsrt-py37main-main -> attrs==19.3.0[build=*]
jsonschema -> attrs[version='>=17.4.0']
pytest -> attrs[version='>=17.2.0|>=17.4.0,<=19.1.0|>=17.4.0|>=19.2.0']

Package six conflicts for:
cryptography -> six[version='>=1.4.1']
cycler -> six
ibm-wsrt-py37main-main -> six==1.15.0[build=*]
pyrsistent -> six
html5lib -> six[version='>=1.9']
grpcio -> six[version='>=1.5.2']
scikit-image -> six[version='>=1.4|>=1.7.3']
protobuf -> six
jsonschema -> six[version='>=1.11.0']
tensorflow-base -> six[version='>=1.10.0|>=1.12.0|>=1.12.0,<2.0a0']
keras-preprocessing -> six[version='>=1.9.0']
google-pasta -> six
retrying -> six[version='>=1.7.0']
python-dateutil -> six[version='>=1.5']
absl-py -> six
pytest -> six[version='>=1.10.0']
tensorboard -> six[version='>=1.10.0|>=1.12']
plotly -> six
mkl-service -> six
pyopenssl -> six[version='>=1.5.2']
traitlets -> six
google-auth -> six[version='>=1.9.0|>=1.9.0,<2dev']
h5py -> six
nltk -> six
patsy -> six
tensorflow-estimator -> six[version='>=1.10.0']
bokeh -> six[version='>=1.5.2']
pytables -> six
arcgis=1.6.0 -> six
more-itertools -> six[version='>=1.0.0,<2.0.0']
prompt-toolkit -> six[version='>=1.9.0']
bleach -> six
mock -> six
packaging -> six

Package termcolor conflicts for:
tensorflow-base -> termcolor[version='>=1.1.0|>=1.1.0,<2.0a0']
tensorflow-estimator -> termcolor[version='>=1.1.0']
ibm-wsrt-py37main-main -> termcolor==1.1.0[build=*]
```

```
Package openblas conflicts for:
numpy -> openblas[version='0.2.18.*|0.2.18|0.2.18.*|0.2.19|0.2.19.*|0.2.20|0.
2.20.*|>=0.2.20,<0.2.21.0a0|>=0.3.3,<0.3.4.0a0|>=0.2.15']
blas -> openblas
scikit-learn -> openblas[version='0.2.18.*|0.2.18|0.2.18.*|0.2.19|0.2.19.*|0.
2.20|0.2.20.*|>=0.2.20,<0.2.21.0a0|>=0.3.3,<0.3.4.0a0*']
scipy -> openblas[version='0.2.18.*|0.2.18|0.2.18.*|0.2.19|0.2.19.*|0.2.20|0.
2.20.*|>=0.2.20,<0.2.21.0a0|>=0.3.3,<0.3.4.0a0*']

Package requests conflicts for:
jupyterlab_server -> requests
ibm-wsrt-py37main-main -> requests==2.24.0[build=*]
nltk -> requests
tensorboard -> requests[version='>=2.21.0,<3']
plotly -> requests
requests-oauthlib -> requests[version='>=2.0.0']
bokeh -> requests[version='>=1.2.3']

Package pluggy conflicts for:
ibm-wsrt-py37main-main -> pluggy==0.13.1[build=*]
pytest -> pluggy[version='>=0.12,<1.0|>=0.12,<1.0.0a1|>=0.9,!>=0.10,<1.0|>=0.9
|>=0.7|>=0.5,<0.7']

Package python-dateutil conflicts for:
pandas -> python-dateutil[version='>=2.5.*|>=2.6.1|>=2.7.3']
ibm-wsrt-py37main-main -> python-dateutil==2.8.1[build=*]
botocore -> python-dateutil[version='>=2.1,<2.7.0|>=2.1,<2.8.1|>=2.1,<3.0.0']
bokeh -> python-dateutil[version='>=2.1']
matplotlib-base -> python-dateutil[version='>=2.1']
jupyter_client -> python-dateutil[version='>=2.1']
matplotlib -> python-dateutil

Package ncurses conflicts for:
sqlite -> ncurses[version='5.9|5.9.*|>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0
a0*']
python=3.7 -> ncurses[version='>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0|>=
6.1,<7.0a0*']
ibm-wsrt-py37main-main -> ncurses==6.2[build=*]
libedit -> ncurses[version='5.9|>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0|>=
6.1,<7.0a0|6.0.*']
readline -> ncurses[version='5.9.*|>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0
|>=6.1,<7.0a0|>=6.0,<7.0a0|6.0.*']

Package enum34 conflicts for:
traitlets -> enum34
tensorflow-estimator -> enum34[version='>=1.1.6']
pyqt -> enum34
grpcio -> enum34[version='>=1.0.4']
cryptography -> enum34
brotlipy -> enum34
imageio -> enum34
tensorflow-base -> enum34[version='>=1.1.6|>=1.1.6,<2.0a0*']
absl-py -> enum34

Package pexpect conflicts for:
ipython -> pexpect[version='>4.3']
ibm-wsrt-py37main-main -> pexpect==4.8.0[build=*]
```

```
Package importlib_metadata conflicts for:
keyring -> importlib_metadata[version='>=1']
pluggy -> importlib_metadata[version='>=0.12|>=0.9']
jsonschema -> importlib_metadata
pytest -> importlib_metadata[version='>=0.12']
ibm-wsrt-py37main-main -> importlib_metadata==1.6.1[build=*]

Package intel-openmp conflicts for:
ibm-wsrt-py37main-main -> intel-openmp==2020.1[build=*]
mkl -> intel-openmp

Package zlib conflicts for:
pillow -> zlib[version='1.2.*|1.2.11|1.2.11.*|>=1.2.11,<1.3.0a0|1.2.8']
glib -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
gst-plugins-base -> zlib[version='>=1.2.11,<1.3.0a0']
matplotlib -> zlib[version='>=1.2.11,<1.3.0a0']
pandoc -> zlib[version='1.2.*|1.2.11|1.2.11.*']
ibm-wsrt-py37main-main -> zlib==1.2.11[build=*]
tensorflow-base -> zlib[version='>=1.2.11,<1.3.0a0']
libpng -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
sqlite -> zlib[version='>=1.2.11,<1.3.0a0']
libtiff -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
tk -> zlib[version='>=1.2.11,<1.3.0a0']
blosc -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
libxml2 -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
freetype -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
zstd -> zlib[version='>=1.2.11,<1.3.0a0']
python=3.7 -> zlib[version='>=1.2.11,<1.3.0a0']
libprotobuf -> zlib[version='1.2.11|>=1.2.11,<1.3.0a0']
protobuf -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
qt -> zlib[version='1.2.*|>=1.2.11,<1.3.0a0']
hdf5 -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
libpq -> zlib[version='>=1.2.11,<1.3.0a0']
grpcio -> zlib[version='>=1.2.11,<1.3.0a0']
pytables -> zlib[version='1.2.*|1.2.11.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']

Package yarl conflicts for:
ibm-wsrt-py37main-main -> yarl==1.5.1[build=*]
aiohttp -> yarl[version='>=0.10.0,<0.11|>=1.0,<1.6.0|>=1.0,<2.0|>=0.11']

Package fastcache conflicts for:
ibm-wsrt-py37main-main -> fastcache==1.1.0[build=*]
sympy -> fastcache

Package sip conflicts for:
pyqt -> sip[version='4.18|4.18.*|>=4.19.4,<=4.19.8|4.19.13.*|>=4.19.13,<=4.19.14']
ibm-wsrt-py37main-main -> sip==4.19.8[build=*]

Package prometheus_client conflicts for:
notebook -> prometheus_client
ibm-wsrt-py37main-main -> prometheus_client==0.8.0[build=*]

Package defusedxml conflicts for:
nbconvert -> defusedxml
ibm-wsrt-py37main-main -> defusedxml==0.6.0[build=*]
```

Package jedi conflicts for:
ibm-wsrt-py37main-main -> jedi==0.17.1[build=*]
ipython -> jedi[version='<0.18|>=0.10|>=0.10,<0.18|>=0.16,<1.0|>=0.16']

Package dask-core conflicts for:
scikit-image -> dask-core[version='>=0.15|>=0.15.0|>=0.9.0']
ibm-wsrt-py37main-main -> dask-core==2.20.0[build=*]

Package qt conflicts for:
ibm-wsrt-py37main-main -> qt==5.9.7[build=*]
pyqt -> qt[version='4.8.*|5.6.*|5.9.*|>=5.12.5,<5.13.0a0|>=5.12.9,<5.13.0a0|>=5.9.7,<5.10.0a0|>=5.6.2,<5.7.0a0|>=4.8.6,<5.0|>=5.9.6,<5.10.0a0|>=5.9.4,<5.10.0a0|>=5.6.3,<5.7.0a0']

Package pillow conflicts for:
matplotlib-base -> pillow[version='>=6.2.0']
ibm-wsrt-py37main-main -> pillow==7.2.0[build=*]
imageio -> pillow
scikit-image -> pillow[version='>=1.7.8|>=2.1.0|>=4.3.0']
bokeh -> pillow[version='>=4.0|>=7.1.0']

Package tensorboard conflicts for:
ibm-wsrt-py37main-main -> tensorboard==2.1.0[build=*]
tensorflow-base -> tensorboard[version='>=1.13.0,<1.14.0a0|>=1.14.0,<1.15.0a0']

Package futures conflicts for:
tensorboard -> futures[version='>=3.1.1']
tornado -> futures
s3transfer -> futures[version='>=2.2.0,<4.0.0']
imageio -> futures
grpcio -> futures[version='>=2.2.0']
jupyterlab -> futures
bokeh -> futures[version='>=3.0.3']

Package bleach conflicts for:
ibm-wsrt-py37main-main -> bleach==3.1.5[build=*]
tensorboard -> bleach[version='1.5.0|>=1.5.0,<1.5.1.0a0']
nbconvert -> bleach

Package dbus conflicts for:
pyqt -> dbus[version='>=1.10.22,<2.0a0|>=1.12.2,<2.0a0|>=1.13.12,<2.0a0|>=1.13.6,<2.0a0|>=1.13.2,<2.0a0']
secretstorage -> dbus
qt -> dbus[version='>=1.10.22,<2.0a0|>=1.12.2,<2.0a0|>=1.13.0,<2.0a0|>=1.13.6,<2.0a0|>=1.13.2,<2.0a0']
ibm-wsrt-py37main-main -> dbus==1.13.16[build=*]

Package sqlite conflicts for:
python=3.7 -> sqlite[version='>=3.24.0,<4.0a0|>=3.25.1,<4.0a0|>=3.25.2,<4.0a0|>=3.25.3,<4.0a0|>=3.26.0,<4.0a0|>=3.28.0,<4.0a0|>=3.30.1,<4.0a0|>=3.32.3,<4.0a0|>=3.33.0,<4.0a0|>=3.34.0,<4.0a0|>=3.31.1,<4.0a0|>=3.29.0,<4.0a0|>=3.27.2,<4.0a0']
qt -> sqlite[version='>=3.20.1,<4.0a0|>=3.22.0,<4.0a0|>=3.23.1,<4.0a0|>=3.24.0,<4.0a0|>=3.25.3,<4.0a0|>=3.26.0,<4.0a0|>=3.28.0,<4.0a0|>=3.29.0,<4.0a0|>=3.30.1,<4.0a0|>=3.33.0,<4.0a0|>=3.34.0,<4.0a0']


```
scikit-image -> cloudpickle[version='>=0.2.1']
ibm-wsrt-py37main-main -> cloudpickle==1.5.0[build=*]

Package blas conflicts for:
scikit-learn -> blas[version='*|*|1.1|1.0|1.0',build='mkl|openblas|openblas|mkl']
mkl_random -> blas[version='*|1.0',build=mkl]
ibm-wsrt-py37main-main -> blas==1.0[build=*]
numpy -> blas[version='*|*|1.1|1.0|1.0',build='mkl|openblas|openblas|mkl']
scipy -> blas[version='*|*|1.0|1.1|1.0',build='mkl|openblas|openblas|openblas|mkl']
mkl_fft -> blas[version='*|1.0',build=mkl]
mkl-service -> blas==1.0=mkl
numexpr -> blas[version='*|*|1.0|1.0',build='mkl|openblas|openblas|mkl']
pytorch -> blas==1.0=mkl
numpy-base -> blas[version='*|*|1.0|1.0',build='mkl|openblas|openblas|mkl']

Package secretstorage conflicts for:
keyring -> secretstorage[version='>=3|>=3.2']
ibm-wsrt-py37main-main -> secretstorage==3.1.0[build=*]

Package libpng conflicts for:
matplotlib-base -> libpng[version='>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0']
gst-plugins-base -> libpng[version='>=1.6.37,<1.7.0a0']
qt -> libpng[version='>=1.6.28,<1.7|>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0|>=1.6.36,<1.7.0a0|>=1.6.34,<1.7.0a0|>=1.6.32,<1.7.0a0']
ibm-wsrt-py37main-main -> libpng==1.6.37[build=*]
freetype -> libpng[version='1.6.*|>=1.6.21,<1.7|>=1.6.22,<1.6.31|>=1.6.32,<1.6.35|>=1.6.34,<1.7.0a0|>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0|>=1.6.28,<1.7|>=1.6.23,<1.7|>=1.6.32,<1.7.0a0']
tensorflow-base -> libpng[version='>=1.6.37,<1.7.0a0']
matplotlib -> libpng[version='>=1.6.23,<1.7|>=1.6.37,<1.7.0a0|>=1.6.36,<1.7.0a0|>=1.6.35,<1.7.0a0|>=1.6.34,<1.7.0a0|>=1.6.32,<1.7.0a0']
fontconfig -> libpng[version='>=1.6.21,<1.7|>=1.6.22,<1.6.31|>=1.6.32,<1.6.35|>=1.6.34,<1.7.0a0|>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0|>=1.6.28,<1.7|>=1.6.23,<1.7|>=1.6.32,<1.7.0a0']

Package blosc conflicts for:
ibm-wsrt-py37main-main -> blosc==1.19.0[build=*]
pytables -> blosc[version='>=1.14.3,<2.0a0|>=1.14.4,<2.0a0|>=1.15.0,<2.0a0|>=1.16.3,<2.0a0|>=1.17.0,<2.0a0|>=1.18.1,<2.0a0|>=1.20.1,<2.0a0|>=1.21.0,<2.0a0|>=1.22.0']

Package functools32 conflicts for:
tensorflow-base -> functools32[version='>=3.2.3.2']
matplotlib -> functools32
matplotlib-base -> functools32
jsonschema -> functools32

Package botocore conflicts for:
boto3 -> botocore[version='>=1.10.0,<1.11.0|>=1.10.1,<1.11.0|>=1.10.10,<1.11.0|>=1.10.11,<1.11.0|>=1.10.12,<1.11.0|>=1.10.13,<1.11.0|>=1.10.14,<1.11.0|>=1.10.15,<1.11.0|>=1.10.16,<1.11.0|>=1.10.17,<1.11.0|>=1.10.18,<1.11.0|>=1.10.19,<1.11.0|>=1.10.20,<1.11.0|>=1.10.21,<1.11.0|>=1.10.22,<1.11.0|>=1.10.23,<1.11.0|>=1.10.24,<1.11.0|>=1.10.25,<1.11.0|>=1.10.26,<1.11.0|>=1.10.27,<1.11.0|>=1.10.28,<1.11.0|>=1.10.29,<1.11.0|>=1.10.30,<1.11.0|>=1.10.31,<1.11.0|>=1.10.32,<1.11.0|>=1.10.33,<1.11.0|>=1.10.34,<1.11.0|>=1.10.35,<1.11.0|>=1.10.
```



```
7.0|>=1.16.7,<1.17.0|>=1.16.6,<1.17.0|>=1.16.5,<1.17.0|>=1.16.4,<1.17.0|>=1.16.3,<1.17.0|>=1.16.2,<1.17.0|>=1.15.9,<1.16.0|>=1.15.8,<1.16.0|>=1.15.7,<1.16.0|>=1.15.6,<1.16.0|>=1.15.5,<1.16.0|>=1.15.4,<1.16.0|>=1.15.3,<1.16.0|>=1.15.2,<1.16.0|>=1.14.9,<1.15.0|>=1.14.8,<1.15.0|>=1.14.7,<1.15.0|>=1.14.6,<1.15.0|>=1.14.5,<1.15.0|>=1.14.4,<1.15.0|>=1.14.3,<1.15.0|>=1.14.2,<1.15.0|>=1.14.1,<1.14.0|>=1.13.9,<1.14.0|>=1.13.8,<1.14.0|>=1.13.7,<1.14.0|>=1.13.6,<1.14.0|>=1.13.5,<1.14.0|>=1.13.4,<1.14.0|>=1.13.3,<1.14.0|>=1.13.2,<1.14.0|>=1.12.99,<1.13.0|>=1.12.98,<1.13.0|>=1.12.97,<1.13.0|>=1.12.96,<1.13.0|>=1.12.95,<1.13.0|>=1.12.94,<1.13.0|>=1.12.93,<1.13.0|>=1.12.92,<1.13.0|>=1.12.91,<1.13.0|>=1.12.90,<1.13.0|>=1.12.89,<1.13.0|>=1.12.88,<1.13.0|>=1.12.87,<1.13.0|>=1.12.86,<1.13.0|>=1.12.85,<1.13.0|>=1.12.84,<1.13.0|>=1.12.83,<1.13.0|>=1.12.82,<1.13.0|>=1.12.81,<1.13.0|>=1.12.80,<1.13.0|>=1.12.79,<1.13.0|>=1.12.78,<1.13.0|>=1.12.77,<1.13.0|>=1.12.76,<1.13.0|>=1.12.75,<1.13.0|>=1.12.74,<1.13.0|>=1.12.73,<1.13.0|>=1.12.72,<1.13.0|>=1.12.71,<1.13.0|>=1.12.70,<1.13.0|>=1.12.69,<1.13.0|>=1.12.68,<1.13.0|>=1.12.67,<1.13.0|>=1.12.66,<1.13.0|>=1.12.65,<1.13.0|>=1.12.64,<1.13.0|>=1.12.63,<1.13.0|>=1.12.62,<1.13.0|>=1.12.61,<1.13.0|>=1.12.60,<1.13.0|>=1.12.59,<1.13.0|>=1.12.58,<1.13.0|>=1.12.57,<1.13.0|>=1.12.56,<1.13.0|>=1.12.55,<1.13.0|>=1.12.54,<1.13.0|>=1.12.53,<1.13.0|>=1.12.52,<1.13.0|>=1.12.51,<1.13.0|>=1.12.50,<1.13.0|>=1.12.49,<1.13.0|>=1.12.48,<1.13.0|>=1.12.47,<1.13.0|>=1.12.46,<1.13.0|>=1.12.45,<1.13.0|>=1.12.44,<1.13.0|>=1.12.43,<1.13.0|>=1.12.42,<1.13.0|>=1.12.41,<1.13.0|>=1.12.40,<1.13.0|>=1.12.39,<1.13.0|>=1.12.38,<1.13.0|>=1.12.37,<1.13.0|>=1.12.36,<1.13.0|>=1.12.35,<1.13.0|>=1.12.34,<1.13.0|>=1.12.33,<1.13.0|>=1.12.32,<1.13.0|>=1.12.31,<1.13.0|>=1.12.30,<1.13.0|>=1.12.29,<1.13.0|>=1.12.28,<1.13.0|>=1.12.27,<1.13.0|>=1.12.26,<1.13.0|>=1.12.25,<1.13.0|>=1.12.24,<1.13.0|>=1.12.23,<1.13.0|>=1.12.22,<1.13.0|>=1.12.21,<1.13.0|>=1.12.20,<1.13.0|>=1.12.19,<1.13.0|>=1.12.18,<1.13.0|>=1.12.17,<1.13.0|>=1.12.16,<1.13.0|>=1.12.15,<1.13.0|>=1.12.14,<1.13.0|>=1.12.13,<1.13.0|>=1.12.12,<1.13.0|>=1.12.11,<1.13.0|>=1.12.9,<1.13.0|>=1.12.8,<1.13.0|>=1.12.7,<1.13.0|>=1.12.6,<1.13.0|>=1.12.5,<1.13.0|>=1.12.4,<1.13.0|>=1.12.3,<1.13.0|>=1.12.2,<1.13.0|>=1.10.9,<1.11.0|>=1.10.8,<1.11.0|>=1.10.7,<1.11.0|>=1.10.6,<1.11.0|>=1.10.5,<1.11.0|>=1.10.4,<1.11.0|>=1.10.3,<1.11.0|>=1.10.2,<1.11.0|>=1.9.23,<1.10.0|>=1.9.22,<1.10.0|>=1.9.21,<1.10.0|>=1.9.20,<1.10.0|>=1.9.19,<1.10.0|>=1.9.18,<1.10.0|>=1.9.17,<1.10.0|>=1.9.16,<1.10.0|>=1.9.15,<1.10.0|>=1.9.14,<1.10.0|>=1.9.13,<1.10.0|>=1.9.12,<1.10.0|>=1.9.11,<1.10.0|>=1.9.10,<1.10.0|>=1.9.9,<1.10.0|>=1.9.8,<1.10.0|>=1.9.7,<1.10.0|>=1.9.6,<1.10.0|>=1.9.5,<1.10.0|>=1.9.4,<1.10.0|>=1.9.3,<1.10.0|>=1.9.2,<1.10.0|>=1.9.1,<1.10.0|>=1.9.0,<1.10.0|>=1.8.50,<1.9.0|>=1.8.49,<1.9.0|>=1.8.48,<1.9.0|>=1.8.47,<1.9.0|>=1.8.46,<1.9.0|>=1.8.45,<1.9.0|>=1.8.44,<1.9.0|>=1.8.43,<1.9.0|>=1.8.42,<1.9.0|>=1.8.41,<1.9.0|>=1.8.40,<1.9.0|>=1.8.39,<1.9.0|>=1.8.38,<1.9.0|>=1.8.37,<1.9.0|>=1.8.36,<1.9.0|>=1.8.32,<1.9.0|>=1.8.28,<1.9.0|>=1.8.5.0,<1.6.0|>=1.4.1,<1.5.0|>=1.8.0,<1.9.0|>=1.7.0,<1.8.0']  
ibm-wsrt-py37main-main -> botocore==1.16.11[build=*]  
s3transfer -> botocore[version='>=1.12.36,<2.0.0|>=1.12.36,<2.0a.0|>=1.3.0,<2.0.0|>]
```

Package pywavelets conflicts for:

```
ibm-wsrt-py37main-main -> pywavelets==1.1.1[build=*]  
scikit-image -> pywavelets[version='>=0.4.0']
```

Package more-itertools conflicts for:

```
pytest -> more-itertools[version='>=4.0,<6.0|>=4.0|>=4.0.0']  
zipp -> more-itertools  
ibm-wsrt-py37main-main -> more-itertools==8.4.0[build=*]
```

Package freetds conflicts for:

```
ibm-wsrt-py37main-main -> freetds==1.00.97[build=*]  
pymssql -> freetds[version='>=1.0.91,<2.0a0|>=1.0.97,<2.0a0']
```

```
Package libpq conflicts for:
psycopg2 -> libpq[version='>=10.3,<11.0a0|>=10.5,<11.0a0|>=10.6,<11.0a0|>=11.
2,<12.0a0|>=11.3,<12.0a0|>=11.5,<12.0a0|>=12.1,<13.0a0|>=12.2,<13.0a0|>=12.3,
<13.0a0|>=11.1,<12.0a0|>=9.6.6']
qt -> libpq[version='>=12.3,<13.0a0']
ibm-wsrt-py37main-main -> libpq==12.2[build=*]

Package pathlib2 conflicts for:
pytest -> pathlib2[version='>=2.2.0']
importlib_metadata -> pathlib2
ipython -> pathlib2
testpath -> pathlib2
importlib-metadata -> pathlib2
pickleshare -> pathlib2

Package keras-preprocessing conflicts for:
tensorflow-base -> keras-preprocessing[version='>=1.0.3|>=1.0.5,<2.0a0|>=1.0.
5|>=1.1.0']
ibm-wsrt-py37main-main -> keras-preprocessing==1.1.0[build=*]

Package hdf5 conflicts for:
h5py -> hdf5[version='1.10.1|1.10.1.*|1.10.2.*|>=1.10.3,<1.10.4.0a0|>=1.10.4,
<1.10.5.0a0|>=1.10.4,<1.10.5.0a0|>=1.10.4,<1.10.5.0a0|>=1.10.5,<1.10.6.0a0|>=
1.10.5,<1.10.6.0a0|>=1.10.5,<1.10.6.0a0|>=1.10.6,<1.10.7.0a0|>=1.10.2,<1.10.
3.0a0|1.8.18|1.8.18.*|1.8.17|1.8.17.*|1.8.17.*|1.8.15.*|>=1.8.20,<1.9.0a0|>=
1.8.18,<1.8.19.0a0|>=1.10.1,<1.10.2.0a0',build='mpi_mpich_*|mpi_mpich_*|mpi_o
penmpi_*|mpi_mpich_*|mpi_openmpi_*|mpi_openmpi_*']
pytables -> hdf5[version='1.10.1.*|1.10.1|>=1.10.3,<1.10.4.0a0|>=1.10.4,<1.1
0.5.0a0|>=1.10.5,<1.10.6.0a0|>=1.10.6,<1.10.7.0a0|>=1.10.2,<1.10.3.0a0|1.8.18
|1.8.18.*|1.8.17|1.8.17.*|>=1.8.20,<1.9.0a0|>=1.8.18,<1.8.19.0a0|>=1.10.1,<1.
10.2.0a0']
ibm-wsrt-py37main-main -> hdf5==1.10.4[build=*]

Package mkl_random conflicts for:
numpy -> mkl_random[version='>=1.0.2,<2.0a0']
ibm-wsrt-py37main-main -> mkl_random==1.1.1[build=*]

Package markupsafe conflicts for:
ibm-wsrt-py37main-main -> markupsafe==1.1.1[build=*]
jinja2 -> markupsafe[version='>=0.23']

Package cudatoolkit conflicts for:
pytorch -> cudatoolkit[version='10.0.*|10.0|10.0.*|10.1|10.1.*|10.2|10.2.*|9.
2|9.2.*|>=10.1.243,<10.2.0a0|>=9.2,<9.3.0a0|>=10.0.130,<10.1.0a0|9.2.*|>=9.0,
<9.1.0a0|>=8.0,<8.1.0a0|9.0.*|8.0.*|7.5.*']
tensorflow-base -> cudatoolkit[version='8.0.*|9.0.*|9.2.*|>=10.0.130,<10.1.0a
0|>=10.1.243,<10.2.0a0|>=10.1.168,<10.2.0a0|>=9.2,<9.3.0a0|>=9.0,<9.1.0a0|
libxgboost -> cudatoolkit[version='8.0.*|>=10.0.130,<10.1.0a0|>=9.0,<9.1.0a0|
>=9.2,<9.3.0a0|9.0.*|9.2.*']
py-xgboost -> cudatoolkit[version='8.0.*|>=10.0.130,<10.1.0a0|>=9.0,<9.1.0a0|
>=9.2,<9.3.0a0|9.0.*|9.2.*']

Package freetype conflicts for:
pillow -> freetype[version='2.5.*|2.6.*|2.7|2.7.*|2.7|2.8.*|2.8.1|2.8.1.*|>=
2.10.4,<3.0a0|>=2.9.1,<3.0a0|>=2.8.1,<2.9.0a0|>=2.10.3,<3.0a0|>=2.8,<2.9.0a
0']
```


7hdbf6ddf_7|py27h2b20989_7|py35hdbf6ddf_7|py35h2b20989_7|py37hdbf6ddf_7|py37h
2b20989_7|py27h2b20989_7|py27hdbf6ddf_7|py37hdbf6ddf_7|py36hdbf6ddf_8|py37hdb
f6ddf_8|py27h2b20989_8|py27hdbf6ddf_8|py35hdbf6ddf_8|py37h7cdd4dd_9|py27h74e8
950_9|py36h74e8950_9|py35h81de0dd_9|py37h74e8950_10|py35h81de0dd_10|py36h2f8d
375_10|py35h2f8d375_10|py37h2f8d375_11|py27h2f8d375_11|py36hde5b4d6_11|py37h
e5b4d6_11|py37h2f8d375_12|py36h2f8d375_12|py37hde5b4d6_12|py36hde5b4d6_12|py3
8hde5b4d6_12|py38h2f8d375_12|py36h0ea5e3f_1|py27h0ea5e3f_1|py36h2b20989_0|py3
6h2b20989_1|py27hdbf6ddf_1|py36hdbf6ddf_1|py36h2b20989_2|py37h2b20989_2|py27h
dbf6ddf_2|py37hdbf6ddf_2|py36h2b20989_3|py27h2b20989_3|py27h2b20989_4|py37hdb
f6ddf_4|py36h2b20989_4|py36hdbf6ddf_4|py35h2b20989_4|py37h2f8d375_4|py35h2f8d
375_4|py27h81de0dd_4|py37h81de0dd_4|py36h81de0dd_4|py38h2f8d375_4|py38hde5b4d
6_4|py36h2f8d375_5|py27hde5b4d6_5|py37hde5b4d6_5|py36hde5b4d6_5|py36h7cdd4dd_
0|py35h7cdd4dd_0|py35h3dfced4_0|py37h3dfced4_0|py37h74e8950_0|py36h81de0dd_0|
py27h81de0dd_0|py36h2f8d375_0|py37h2f8d375_0|py27h81de0dd_0|py36h2f8d375_0|py
36h81de0dd_0|py36h2f8d375_1|py36h81de0dd_1|py37h81de0dd_1|py27h81de0dd_0|py37
h2f8d375_0|py36h81de0dd_0|py27h81de0dd_0|py36hde5b4d6_0|py37hde5b4d6_0|py37h
e5b4d6_0|py36h2f8d375_0|py36hde5b4d6_0|py37h2f8d375_1|py27hde5b4d6_1|py36hde5
b4d6_1|py36h2f8d375_0|py36hde5b4d6_0|py37hde5b4d6_0|py37h2f8d375_1|py36h2f8d3
75_1|py36hde5b4d6_1|py27hde5b4d6_1|py27h2f8d375_0|py37hde5b4d6_0|py37hde5b4d6_0
|py36h2f8d375_0|py37hde5b4d6_0|py36hde5b4d6_0|py36h2f8d375_0|py37hde5b4d6_0|p
y36hde5b4d6_0|py38hde5b4d6_0|py37hfa32c7d_0|py36h75fe3a5_0|py37hfa32c7d_0|py3
7h75fe3a5_0|py36h75fe3a5_0|py39h2ae0177_0|py39h0f7b65f_0|py38hfa32c7d_0|py36h
fa32c7d_0|py38h75fe3a5_0|py37h75fe3a5_0|py36hfa32c7d_0|py38hfa32c7d_0|py38h75
fe3a5_0|py39h76555f2_1|py39hfb011de_1|py27hde5b4d6_0|py27h2f8d375_0|py38h2f8d
375_0|py37h2f8d375_0|py27hde5b4d6_0|py37h2f8d375_0|py27h2f8d375_0|py36hde5b4d
6_0|py37h2f8d375_0|py36h2f8d375_0|py27h2f8d375_0|py36hde5b4d6_0|py27hde5b4d6_
0|py37h2f8d375_0|py27hde5b4d6_0|py36h2f8d375_0|py37h2f8d375_0|py37hde5b4d6_1|
py27h2f8d375_1|py27hde5b4d6_0|py27h2f8d375_0|py37h2f8d375_0|py37hde5b4d6_1|py
36h2f8d375_1|py27h2f8d375_1|py27hde5b4d6_0|py37h2f8d375_0|py27h2f8d375_0|py27
hde5b4d6_0|py37h81de0dd_0|py27h2f8d375_0|py36h2f8d375_0|py37h81de0dd_0|py36h8
1de0dd_0|py37h2f8d375_0|py36h2f8d375_0|py27h2f8d375_0|py37h2f8d375_1|py27h81d
e0dd_1|py27h2f8d375_1|py35h2f8d375_0|py35h81de0dd_0|py37h81de0dd_0|py27h2f8d3
75_0|py37h2f8d375_0|py27h2f8d375_0|py35h2f8d375_0|py35h81de0dd_0|py37h81de0dd
_0|py36h74e8950_0|py27h74e8950_0|py35h74e8950_0|py36h3dfced4_0|py27h3dfced4_0
|py37h7cdd4dd_0|py27h7cdd4dd_0|py27h2f8d375_5|py37h2f8d375_5|py35h81de0dd_4|p
y27h2f8d375_4|py36h2f8d375_4|py35hdbf6ddf_4|py37h2b20989_4|py27hdbf6ddf_4|py2
7hdbf6ddf_3|py36hdbf6ddf_3|py37hdbf6ddf_3|py37h2b20989_3|py36hdbf6ddf_2|py27h
2b20989_2|py27h2b20989_1|py37hdbf6ddf_1|py37h2b20989_1|py35hdbf6ddf_0|py27hdb
f6ddf_0|py36hdbf6ddf_0|py27h2b20989_0|py35hdbf6ddf_0|py36hdbf6ddf_0|py27hdbf6
ddf_0|py35h2b20989_0|py36h2b20989_0|py27h2b20989_0|py35h9be14a7_1|py27h9be14a
7_1|py36h9be14a7_1|py35h0ea5e3f_1|py27hde5b4d6_12|py27h2f8d375_12|py27hde5b4d
6_11|py36h2f8d375_11|py27h2f8d375_10|py37h2f8d375_10|py36h81de0dd_10|py37h81d
e0dd_10|py27h81de0dd_10|py36h74e8950_10|py27h74e8950_10|py35h74e8950_10|py27h
81de0dd_9|py37h74e8950_9|py35h74e8950_9|py37h81de0dd_9|py36h81de0dd_9|py27h3d
fcfed4_9|py35h3dfced4_9|py36h3dfced4_9|py37h3dfced4_9|py27h7cdd4dd_9|py35h7cdd
4dd_9|py36h7cdd4dd_9|py35h2b20989_8|py37h2b20989_8|py36h2b20989_8|py36hdbf6dd
f_7|py36h2b20989_7|py37h2b20989_7|py36h2b20989_7|py36hdbf6ddf_7|py37hdbf6ddf_
6|py36h2b20989_6']
mk1_random -> numpy-base[version='>=1.0.2,<2.0a0']

Package pip conflicts for:

python=3.7 -> pip

ibm-wsrt-py37main-main -> pip==20.1.1[build=*

Package keyring conflicts for:

ibm-wsrt-py37main-main -> keyring==18.0.0[build=*

```
arcgis=1.6.0 -> keyring

Package absl-py conflicts for:
tensorboard -> absl-py[version='>=0.4|>=0.8.0|>=0.7']
ibm-wsrt-py37main-main -> absl-py==0.9.0[build=*]
tensorflow-base -> absl-py[version='>=0.1.6|>=0.7.0|>=0.7.1|>=0.8.1|>=0.7.1,<1.0a0']
tensorflow-estimator -> absl-py[version='>=0.1.6|>=0.7.0']

Package werkzeug conflicts for:
tensorflow-base -> werkzeug[version='>=0.14.1,<1.0a0']
ibm-wsrt-py37main-main -> werkzeug==1.0.1[build=*]
tensorboard -> werkzeug[version='>=0.11.10|>=0.11.15|>=0.14']

Package multidict conflicts for:
ibm-wsrt-py37main-main -> multidict==4.7.6[build=*]
aiohttp -> multidict[version='>=2.1.4|>=4.0,<5.0|>=4.5,<5.0|>=4.5,<7.0|>=3.0.0']
yarl -> multidict[version='>=2.0|>=4.0']

Package funcsigs conflicts for:
pytest -> funcsigs[version='>=1.0']
mock -> funcsigs

Package pyparsing conflicts for:
matplotlib -> pyparsing
packaging -> pyparsing[version='>=2.0.2']
ibm-wsrt-py37main-main -> pyparsing==2.4.7[build=*]
matplotlib-base -> pyparsing[version='>=2.0.3,!>=2.0.4,!>=2.1.2,!>=2.1.6']
nltk -> pyparsing

Package libopenblas conflicts for:
scipy -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.3,<1.0a0']
numpy -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.3,<1.0a0']
numpy-base -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.3,<1.0a0']
scikit-learn -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.3,<1.0a0']
numexpr -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.3,<1.0a0']

Package glib conflicts for:
gstreamer -> glib[version='2.51.*|>=2.55.0,<2.56.0a0|>=2.56.2,<2.57.0a0|>=2.58.2,<2.59.0a0|>=2.58.3,<3.0a0|>=2.66.1,<3.0a0|>=2.56.1,<3.0a0|>=2.53.6,<3.0a0|>]
ibm-wsrt-py37main-main -> glib==2.65.0[build=*]
gst-plugins-base -> glib[version='>=2.53.6,<3.0a0|>=2.56.1,<3.0a0|>=2.58.2,<2.59.0a0|>=2.58.3,<3.0a0|>=2.66.1,<3.0a0|>]
qt -> glib[version='>=2.53.6,<3.0a0|>=2.56.1,<3.0a0|>=2.56.2,<3.0a0|>=2.58.3,<3.0a0|>]
dbus -> glib[version='>=2.53.6,<3.0a0|>=2.56.1,<3.0a0|>=2.56.2,<3.0a0|>=2.58.3,<3.0a0|>=2.63.1,<3.0a0|>]

Package pyopenssl conflicts for:
ibm-wsrt-py37main-main -> pyopenssl==19.1.0[build=*]
urllib3 -> pyopenssl[version='>=0.14']
```

```
Package matplotlib-base conflicts for:
seaborn -> matplotlib-base[version='>=2.1.2']
matplotlib -> matplotlib-base[version='2.1.2|2.1.2|2.1.2|2.2.3|2.2.3|2.2.3|2.
2.4|2.2.4|2.2.4|2.2.4|2.2.4|2.2.4|2.2.4|2.2.4|2.2.4|3.0.1|3.0.2|3.0.2|
3.0.2|3.0.2|3.0.3|3.0.3|3.0.3|3.0.3|3.1.0|3.1.0|3.1.0|3.1.0|3.1.1|3.1.1|
3.1.1|3.1.1|3.1.1|3.1.1|3.1.1|3.1.1|3.1.2|3.1.2|3.1.2|3.1.2|3.1.2|3.1.2|
3|3.1.3|3.1.3|>=3.2.0,<3.2.1.0a0|>=3.2.1,<3.2.2.0a0|>=3.2.2,<3.2.3.0a0|>=3.3.
0,<3.3.1.0a0|>=3.3.1,<3.3.2.0a0|>=3.3.2,<3.3.3.0a0|>=3.3.3,<3.3.4.0a0|>=3.3.
4,<3.3.5.0a0|>=2.2.5,<2.2.6.0a0|3.1.3|3.1.3|3.1.3|3.1.2|3.1.2|3.1.2',build='p
y37hef1b27d_1|py27h60b886d_1|py27hfd891ef_0|py27h250f245_1|py27h250f245_2|py3
7h250f245_2|py38h250f245_2|py37h167e16e_1001|py37h167e16e_1002|py37h167e16e_0
|py36h167e16e_0|py37h5f35d83_1|py36h5f35d83_1|py36h5f35d83_0|py37he7580a8_1|p
y38h250f245_1|py37h250f245_2|py38h250f245_2|py36h250f245_0|py38h250f245_1|py3
6h250f245_0|py38h250f245_0|py37h250f245_0|py37h250f245_1|py36h250f245_1|py38h
250f245_0|py37h250f245_0|py36h250f245_2|py36he7580a8_1|py37hfd891ef_0|py36hfd
891ef_0|py36hfd891ef_1|py37hfd891ef_1|py37h5f35d83_0|py36h167e16e_1002|py36h1
67e16e_1001|py36h167e16e_1000|py37hc2fb212_1001|py36h250f245_2|py36h250f245_1
|py37h250f245_1|py36hfd891ef_0|py37hfd891ef_0|py37h60b886d_1|py36h60b886d_1|p
y36h250f245_1|py27h250f245_1|py37h250f245_1|py36hef1b27d_0|py37hef1b27d_0|py3
8hef1b27d_0|py36hef1b27d_1|py38hef1b27d_1']

scikit-image -> matplotlib-base[version='>=2.0.0']
ibm-wsrt-py37main-main -> matplotlib-base==3.2.2[build=*]
```

```
Package libgfortran conflicts for:  
numpy -> libgfortran[version='>=3.0']  
scipy -> libgfortran[version='>=3.0']  
hdf5 -> libgfortran[version='>=3.0']
```

```
Package libglib conflicts for:  
glib -> libglib[version='2.64.6|2.66.1|2.66.2|2.66.2|2.66.3|2.66.3|2.66.4',bu  
ild='h0dae87d_1|h1f3bc88_1|h748fe8e_1|hf9edacf_1|h164308a_1|hdb14261_2|h16430  
8a_2|h748fe8e_2|hf9edacf_2|hdb14261_1|hdb14261_0|h748fe8e_0|hf9edacf_0|h16430  
8a_0|hbe7bbbb4_0|hbe7bbbb4_0|h0dae87d_0|h0dae87d_0']  
gst-plugins-base -> libglib[version='>=2.64.6,<3.0a0|>=2.66.4,<3.0a0']  
qt -> libglib[version='>=2.66.4,<3.0a0']  
dbus -> libglib[version='>=2.64.6,<3.0a0']  
gstreamer -> libglib[version='>=2.64.6,<3.0a0|>=2.66.4,<3.0a0']
```

```
Package libxml2 conflicts for:  
ibm-wsrt-py37main-main -> libxml2==2.9.10[build=*]  
libxslt -> libxml2[version='2.9.*|>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.  
8,<2.10.0a0|>=2.9.7,<2.10.0a0|>=2.9.4,<2.10.0a0']  
qt -> libxml2[version='>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.8,<2.10.0a0  
|>=2.9.7,<2.10.0a0']  
lxml -> libxml2[version='2.9.*|>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.8,<  
2.10.0a0|>=2.9.3,<2.10.0a0|>=2.9.7,<2.10.0a0|>=2.9.4,<2.10.0a0']  
fontconfig -> libxml2[version='2.9.*|>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.  
8,<2.10.0a0|>=2.9.7,<2.10.0a0|>=2.9.4,<2.10.0a0']
```

```
Package scipy conflicts for:  
seaborn -> scipy[version='>=0.15.2|>=1.0.1']  
statsmodels -> scipy[version='>=0.14|>=1.0|>=1.2']  
keras-preprocessing -> scipy[version='>=0.14']  
tensorflow-base -> scipy[version='>=1.2.1|>=1.4.1']  
scikit-learn -> scipy  
nltk -> scipy
```

```
py-xgboost -> scipy
scikit-image -> scipy[version='>=0.17|>=0.19|>=0.9']
patsy -> scipy
ibm-wsrt-py37main-main -> scipy==1.5.0[build=*]

Package toolz conflicts for:
ibm-wsrt-py37main-main -> toolz==0.10.0[build=*]
cytoolz -> toolz[version='>=0.10.0|>=0.8.0']
scikit-image -> toolz[version='>=0.7.3|>=0.7.4']

Package tk conflicts for:
ibm-wsrt-py37main-main -> tk==8.6.10[build=*]
matplotlib -> tk[version='8.5.*|8.6.*|>=8.6.8,<8.7.0a0|>=8.6.7,<8.7.0a0']
pillow -> tk[version='8.6.*|>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.7.0
a0|>=8.6.7,<8.7.0a0']
python=3.7 -> tk[version='>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.7.0a0
|>=8.6.7,<8.7.0a0']
krb5 -> tk[version='8.6.*|>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.7.0a0
|>=8.6.7,<8.7.0a0']
matplotlib-base -> tk[version='>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.
7.0a0']

Package patsy conflicts for:
ibm-wsrt-py37main-main -> patsy==0.5.1[build=*]
seaborn -> patsy
statsmodels -> patsy[version='>=0.4.0|>=0.5.1']

Package pytz conflicts for:
plotly -> pytz
matplotlib -> pytz
matplotlib-base -> pytz
pandas -> pytz[version='>=2017.2']
ibm-wsrt-py37main-main -> pytz==2020.1[build=*]

Package matplotlib conflicts for:
bokeh -> matplotlib
seaborn -> matplotlib[version='>=1.4.3|>=2.1.2']
nltk -> matplotlib
ibm-wsrt-py37main-main -> matplotlib==3.2.2[build=*]
arcgis=1.6.0 -> matplotlib
scikit-image -> matplotlib[version='>=1.1|>=1.3.1|>=2.0.0']

Package mock conflicts for:
pytables -> mock
tensorflow-estimator -> mock[version='>=2.0.0']
tensorflow-base -> mock[version='>=2.0.0|>=2.0.0,<3.0a0']
ibm-wsrt-py37main-main -> mock==4.0.2[build=*]

Package ipywidgets conflicts for:
arcgis=1.6.0 -> ipywidgets[version='>=7']
ibm-wsrt-py37main-main -> ipywidgets==7.5.1[build=*]

Package statsmodels conflicts for:
ibm-wsrt-py37main-main -> statsmodels==0.11.1[build=*]
seaborn -> statsmodels[version='>=0.5.0|>=0.8.0']

Package webencodings conflicts for:
```

```
tensorboard -> webencodings
ibm-wsrt-py37main-main -> webencodings==0.5.1[build=*]
bleach -> webencodings
html5lib -> webencodings

Package google-pasta conflicts for:
ibm-wsrt-py37main-main -> google-pasta==0.2.0[build=*]
tensorflow-base -> google-pasta[version='>=0.1.6|>=0.1.8|>=0.1.7|>=0.1.7,<1.0a0']

Package urllib3 conflicts for:
requests -> urllib3[version='>=1.21.1,<1.22|>=1.21.1,<1.23|>=1.21.1,<1.24|>=1.21.1,<1.25|>=1.21.1,<1.26,!>=1.25.0,!>=1.25.1|>=1.21.1,<1.27']
ibm-wsrt-py37main-main -> urllib3==1.25.9[build=*]
botocore -> urllib3[version='>=1.20,<1.24|>=1.20,<1.25|>=1.20,<1.26|>=1.25.4,<1.26|>=1.25.4,<1.27']

Package protobuf conflicts for:
tensorflow-estimator -> protobuf[version='>=3.6.1']
tensorflow-base -> protobuf[version='>=3.3.0|>=3.4.0|>=3.6.0|>=3.6.1,<4.0a0|>=3.6.1|>=3.8.0|>=3.9.2']
ibm-wsrt-py37main-main -> protobuf==3.12.3[build=*]
grpcio -> protobuf[version='>=3.5.0']
tensorflow -> protobuf[version='>=3.3.0|>=3.4.0|>=3.6.0|>=3.8.0|>=3.6.1']

Package singledispatch conflicts for:
nltk -> singledispatch
tornado -> singledispatch

Package send2trash conflicts for:
ibm-wsrt-py37main-main -> send2trash==1.5.0[build=*]
notebook -> send2trash[version='>=1.5.0']

Package requests-oauthlib conflicts for:
google-auth-oauthlib -> requests-oauthlib[version='>=0.7.0|>=0.7.0,<1dev']
ibm-wsrt-py37main-main -> requests-oauthlib==1.3.0[build=*]

Package lzo conflicts for:
pytables -> lzo[version='2.*|>=2.10,<3.0a0|2.06']
ibm-wsrt-py37main-main -> lzo==2.10[build=*]

Package terminado conflicts for:
ibm-wsrt-py37main-main -> terminado==0.8.3[build=*]
notebook -> terminado[version='>=0.3.3|>=0.8.1|>=0.8.3']

Package zstd conflicts for:
libtiff -> zstd[version='>=1.3.3,<1.3.4.0a0|>=1.4.0,<1.5.0.0a0|>=1.4.3,<1.5.0.0a0|>=1.4.4,<1.5.0.0a0|>=1.4.5,<1.5.0a0|>=1.4|>=1.4.4,<1.5.0a0|>=1.3.7,<1.3.8.0a0']
ibm-wsrt-py37main-main -> zstd==1.4.4[build=*]
blosc -> zstd[version='>=1.3.7,<1.3.8.0a0|>=1.4.4,<1.5.0a0|>=1.4.5,<1.4.6.0a0']

Package libgfortran-ng conflicts for:
hdf5 -> libgfortran-ng[version='>=7,<8.0a0|>=7.2.0,<8.0a0']
numpy -> libgfortran-ng[version='>=4.9|>=7,<8.0a0|>=7.2.0,<8.0a0']
ibm-wsrt-py37main-main -> libgfortran-ng==7.3.0[build=*]
```



```
seaborn -> pandas[version='>=0.14.0|>=0.22.0']
arcgis=1.6.0 -> pandas[version='>=0.23']
ibm-wsrt-py37main-main -> pandas==1.0.5[build=*]
bokeh -> pandas
statsmodels -> pandas[version='>=0.14|>=0.21|>=0.23']

Package jpeg conflicts for:
ibm-wsrt-py37main-main -> jpeg==9b[build=*]
qt -> jpeg[version='9.*|>=9c,<10a|>=9d,<10a|>=9b,<10a']
libtiff -> jpeg[version='9.*|>=9b,<10a|>=9c,<10a|>=9d,<10a']
lcms2 -> jpeg[version='>=9b,<10a|>=9c,<10a|>=9d,<10a']
pillow -> jpeg[version='8.*|9.*|>=9c,<10a|>=9d,<10a|>=9b,<10a']

Package kiwisolver conflicts for:
matplotlib -> kiwisolver
matplotlib-base -> kiwisolver[version='>=1.0.1']
ibm-wsrt-py37main-main -> kiwisolver==1.2.0[build=*]

Package google-auth-oauthlib conflicts for:
ibm-wsrt-py37main-main -> google-auth-oauthlib==0.4.1[build=*]
tensorboard -> google-auth-oauthlib[version='0.4.1|>=0.4.1,<0.5']

Package libffi conflicts for:
glib -> libffi[version='<3.3.0.a0|>=3.0.0|>=3.2.1,<3.3.0a0|>=3.3,<3.4.0a0|>=3.2.1,<3.3a0']
python=3.7 -> libffi[version='>=3.2.1,<3.3.0a0|>=3.3,<3.4.0a0|>=3.2.1,<3.3a0']
cffi -> libffi[version='<3.3.0.a0|>=3.2.1,<3.3.0a0|>=3.3,<3.4.0a0|>=3.2.1,<3.3a0']
gstreamer -> libffi[version='>=3.2.1,<3.3.0a0|>=3.2.1,<3.3a0']
ibm-wsrt-py37main-main -> libffi==3.3[build=*]

Package cryptography conflicts for:
secretstorage -> cryptography
urllib3 -> cryptography[version='>=1.3.4']
ibm-wsrt-py37main-main -> cryptography==3.2.1[build=*]
oauthlib -> cryptography
pyopenssl -> cryptography[version='>=1.3|>=1.3.4|>=1.9|>=2.1.4|>=2.2.1|>=2.8|>=3.2']
pyjwt -> cryptography[version='>=1.0|>=1.4|>=2.6,<3.0.0']

Package openssl conflicts for:
libpq -> openssl[version='1.0.*|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1f,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1b,<1.1.2a|>=1.0.2o,<1.0.3a|>=1.0.2m,<1.0.3a']
qt -> openssl[version='1.0.*|1.1.*|>=1.1.1g,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.0.2p,<1.0.3a|>=1.0.2r,<1.0.3a|>=1.0.2o,<1.0.3a|>=1.0.2n,<1.0.3a']
ibm-wsrt-py37main-main -> openssl==1.1.1i[build=*]
krb5 -> openssl[version='1.0.*|>=1.0.2l,<1.0.3a|>=1.0.2m,<1.0.3a|>=1.0.2n,<1.0.3a|>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1c]
cryptography -> openssl[version='1.0.*|>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.1.1c,<1.1.2a|>=1.1.1b,<1.1.2a|>=1.0.2n,<1.0.3a|>=1.0.2m,<1.0.3a']
python=3.7 -> openssl[version='>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1e,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1c,<1.1.2a|>=1.1.1b,<1.1.2a|>=1.1.1a]
```

```
grpcio -> openssl[version='>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a']  
hdf5 -> openssl[version='>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a']  
psycopg2 -> openssl[version='1.0.*|>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1f,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.0.2n,<1.0.3a|>=1.0.2m,<1.0.3a']
```

Package libcurl conflicts for:

```
tensorflow-base -> libcurl[version='>=7.64.1,<8.0a0|>=7.71.1,<8.0a0']  
hdf5 -> libcurl[version='>=7.71.1,<8.0a0']
```

Package gstreamer conflicts for:

```
qt -> gstreamer[version='>=1.12.4,<1.13.0a0|>=1.12.5,<1.13.0a0|>=1.14.4,<1.15.0a0|>=1.18.2,<1.19.0a0|>=1.14.0,<1.15.0a0']  
gst-plugins-base -> gstreamer[version='1.8.*|>=1.12.4,<1.13.0a0|>=1.12.5,<1.13.0a0|>=1.14.1,<2.0a0|>=1.14.4,<2.0a0|>=1.14.5,<2.0a0|>=1.18.1,<2.0a0|>=1.18.2,<2.0a0|>=1.18.3,<2.0a0|>=1.14.0,<2.0a0|>=1.12.2,<1.13.0a0']  
ibm-wsrt-py37main-main -> gstreamer==1.14.0[build=*]
```

Package wcwidth conflicts for:

```
pytest -> wcwidth  
ibm-wsrt-py37main-main -> wcwidth==0.2.4[build=*]  
prompt-toolkit -> wcwidth
```

Package cytoolz conflicts for:

```
scikit-image -> cytoolz[version='>=0.7.3']  
ibm-wsrt-py37main-main -> cytoolz==0.10.1[build=*]
```

Package pandoc conflicts for:

```
ibm-wsrt-py37main-main -> pandoc==2.9.2.1[build=*]  
nbconvert -> pandoc[version='>=1.12.1|>=1.12.1,<2.0.0']
```

Package libprotobuf conflicts for:

```
ibm-wsrt-py37main-main -> libprotobuf==3.12.3[build=*]  
tensorflow-base -> libprotobuf[version='>=3.6.1,<3.7.0a0|>=3.8.0,<3.9.0a0|>=3.9.1,<3.10.0a0']  
protobuf -> libprotobuf[version='3.10.0.*|3.10.1.*|3.11.0.*|3.11.1.*|3.11.2.*|3.11.3.*|3.11.4.*|3.12.1.*|3.12.3.*|3.12.4.*|3.13.0.*|3.13.0.1.*|3.14.0.*|>=3.14.0,<3.15.0a0|>=3.13.0.1,<3.14.0a0|>=3.13.0,<3.14.0a0|>=3.12.4,<3.13.0a0|>=3.12.3,<3.13.0a0|>=3.12.1,<3.13.0a0|>=3.11.4,<3.12.0a0|>=3.11.3,<3.12.0a0|>=3.11.2,<3.12.0a0|>=3.11.1,<3.12.0a0|>=3.11.0,<3.12.0a0|>=3.10.1,<3.11.0a0|>=3.10.0,<3.11.0a0|>=3.9.2,<3.10.0a0|>=3.9.1,<3.10.0a0|>=3.9.0,<3.10.0a0|>=3.8.0,<3.9.0a0|>=3.7.1,<3.8.0a0|>=3.7.0,<3.7.1.0a0|>=3.6.1,<3.6.2.0a0|>=3.6.0,<3.6.1.0a0|>=3.5.2,<3.5.2.0a0|>=3.5.1,<3.6.0a0|>=3.4.1,<3.5.0a0']
```

Package backcall conflicts for:

```
ibm-wsrt-py37main-main -> backcall==0.2.0[build=*]  
ipython -> backcall
```

Package pyzmq conflicts for:

```
ipykernel -> pyzmq[version='<21']  
ibm-wsrt-py37main-main -> pyzmq==19.0.1[build=*]  
jupyter_client -> pyzmq[version='>=13']  
notebook -> pyzmq[version='>=17']
```

Package mkl_fft conflicts for:

```
ibm-wsrt-py37main-main -> mkl_fft==1.1.0[build=*]
numpy -> mkl_fft[version='>=1.0.4|>=1.0.6,<2.0a0']

Package jupyterlab conflicts for:
arcgis=1.6.0 -> jupyterlab
ibm-wsrt-py37main-main -> jupyterlab==2.2.6[build=*]

Package _openmp_mutex conflicts for:
blas -> _openmp_mutex[version='*>=4.5',build=_ llvm]
libgcc-ng -> _openmp_mutex[version='>=4.5']
mkl -> _openmp_mutex[version='*>=4.5',build=_ llvm]
pytorch -> _openmp_mutex[version='>=4.5']

Package ipaddress conflicts for:
notebook -> ipaddress
cryptography -> ipaddress
urllib3 -> ipaddress

Package soupsieve conflicts for:
beautifulsoup4 -> soupsieve[version='>=1.2']
ibm-wsrt-py37main-main -> soupsieve==2.0.1[build=*]

Package numexpr conflicts for:
ibm-wsrt-py37main-main -> numexpr==2.7.1[build=*]
pytables -> numexpr

Package google-auth conflicts for:
tensorboard -> google-auth[version='>=1.6.3,<2']
ibm-wsrt-py37main-main -> google-auth==1.22.0[build=*]
google-auth-oauthlib -> google-auth

Package lcms2 conflicts for:
pillow -> lcms2[version='>=2.11,<3.0a0']
ibm-wsrt-py37main-main -> lcms2==2.11[build=*]

Package jupyter_client conflicts for:
nbconvert -> jupyter_client[version='>=4.2']
ibm-wsrt-py37main-main -> jupyter_client==6.1.3[build=*]
ipykernel -> jupyter_client
notebook -> jupyter_client[version='>=5.2.0|>=5.3.1|>=5.3.4']

Package expat conflicts for:
qt -> expat[version='>=2.2.5,<2.3.0a0|>=2.2.9,<2.3.0a0|>=2.2.6,<3.0a0|>=2.2.
5,<3.0a0']
dbus -> expat[version='>=2.2.10,<3.0a0|>=2.2.5,<2.3.0a0|>=2.2.9,<2.3.0a0|>=2.
2.6,<3.0a0|>=2.2.5,<3.0a0']
ibm-wsrt-py37main-main -> expat==2.2.9[build=*]

Package _pytorch_select conflicts for:
ibm-wsrt-py37main-main -> _pytorch_select==0.1[build=*]
pytorch -> _pytorch_select[version='0.1|0.2']

Package ca-certificates conflicts for:
ibm-wsrt-py37main-main -> ca-certificates==2020.12.8[build=*]
openssl -> ca-certificates

Package notebook conflicts for:
```

```
ipywidgets -> notebook
jupyterlab_server -> notebook[version='>=4.2.0']
jupyterlab -> notebook[version='>=4.2|>=4.3|>=4.3.1']
arcgis=1.6.0 -> notebook
widgetsnbextension -> notebook[version='>=4.2.0|>=4.4.1']
ibm-wsrt-py37main-main -> notebook==6.0.3[build=*]

Package opt_einsum conflicts for:
tensorflow-base -> opt_einsum[version='>=2.3.2,<3.0a0|>=2.3.2|>=3.1.0|>=3.1.0,<4.0a0']
ibm-wsrt-py37main-main -> opt_einsum==3.1.0[build=*]

Package ld_impl_linux-64 conflicts for:
ibm-wsrt-py37main-main -> ld_impl_linux-64==2.33.1[build=*]
python=3.7 -> ld_impl_linux-64[version='>=2.34']

Package astor conflicts for:
tensorflow-estimator -> astor[version='>=0.6.0']
ibm-wsrt-py37main-main -> astor==0.8.0[build=*]
tensorflow-base -> astor[version='>=0.6.0|>=0.6.2|>=0.6.2,<1.0a0']

Package blinker conflicts for:
oauthlib -> blinker
ibm-wsrt-py37main-main -> blinker==1.4[build=*]

Package mpmath conflicts for:
ibm-wsrt-py37main-main -> mpmath==1.1.0[build=*]
sympy -> mpmath[version='>=0.19']

Package gast conflicts for:
tensorflow-base -> gast[version='>=0.2.0|>=0.3.3,<0.3.4.0a0|>=0.2.2,<0.2.3.0a0']
ibm-wsrt-py37main-main -> gast==0.2.2[build=*]
tensorflow-estimator -> gast[version='>=0.2.0']

Package jeepney conflicts for:
secretstorage -> jeepney[version='>=0.6']
keyring -> jeepney[version='>=0.4.2']
ibm-wsrt-py37main-main -> jeepney==0.4.0[build=*]

Package threadpoolctl conflicts for:
scikit-learn -> threadpoolctl
ibm-wsrt-py37main-main -> threadpoolctl==2.1.0[build=*]

Package icu conflicts for:
matplotlib -> icu[version='>=58.2,<59.0a0']
qt -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0']
matplotlib-base -> icu[version='>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1]
ibm-wsrt-py37main-main -> icu==58.2[build=*]
libxslt -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0']
libxml2 -> icu[version='56.*|58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0']
fontconfig -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0']
```

Package typing_extensions conflicts for:
ibm-wsrt-py37main-main -> typing_extensions==3.7.4.2[build=*]
pytorch -> typing_extensions
importlib-metadata -> typing_extensions[version='>=3.6.4']
aiohttp -> typing_extensions[version='>=3.6.5']
bokeh -> typing_extensions[version='>=3.7.4']

Package zeromq conflicts for:
pyzmq -> zeromq[version='4.1.*|4.2.1|>=4.2.3,<4.3|>=4.2.5,<4.3|>=4.2.5,<4.3.0a0|>=4.3.1,<4.4.0a0|>=4.3.2,<4.4.0a0|>=4.3.3,<4.4.0a0|>=4.2.5,<4.2.6.0a0|4.2.*']
ibm-wsrt-py37main-main -> zeromq==4.3.2[build=*]

Package mistune conflicts for:
nbconvert -> mistune[version='>0.6|>=0.7.4|>=0.8.1']
ibm-wsrt-py37main-main -> mistune==0.8.4[build=*]

Package yaml conflicts for:
ibm-wsrt-py37main-main -> yaml==0.2.5[build=*]
pyyaml -> yaml[version='>=0.1.7,<0.2.0a0|>=0.2.2,<0.3.0a0|>=0.2.5,<0.3.0a0']

Package future conflicts for:
pytorch -> future
tensorflow-base -> future
ibm-wsrt-py37main-main -> future==0.18.2[build=*]

Package jmespath conflicts for:
botocore -> jmespath[version='>=0.7.1,<1.0.0']
boto3 -> jmespath[version='>=0.7.1,<1.0.0']
ibm-wsrt-py37main-main -> jmespath==0.9.4[build=*]

Package typing-extensions conflicts for:
yarl -> typing-extensions[version='>=3.7.4']
aiohttp -> typing-extensions[version='>=3.6.5']

Package widgetsnbextension conflicts for:
arcgis=1.6.0 -> widgetsnbextension[version='>=3']
ibm-wsrt-py37main-main -> widgetsnbextension==3.5.1[build=*]
ipywidgets -> widgetsnbextension[version='>=1.2.2|>=1.2.3|>=1.2.6|>=1.2.6,<2|>=2.0.0|>=2.0.0,<3.0.0|>=3.0.0,<3.1.0|>=3.1.0,<3.2.0|>=3.2.0,<3.3.0|>=3.3.0,<3.4.0|>=3.4.0,<3.5.0|>=3.5.0,<3.6.0|>=3.2.0,<4.0.0|>=3.1.0,<4.0.0|>=3.0.0,<4.0.0|>=3.1.0,<4.0']

Package chardet conflicts for:
ibm-wsrt-py37main-main -> chardet==3.0.4[build=*]
requests -> chardet[version='>=3.0.2,<3.1.0|>=3.0.2,<4|>=3.0.2,<5']
aiohttp -> chardet[version='>=2.0,<4.0']

Package packaging conflicts for:
jupyterlab -> packaging
ibm-wsrt-py37main-main -> packaging==20.4[build=*]
bleach -> packaging
bokeh -> packaging[version='>=16.8']
pytest -> packaging
jupyterlab_server -> packaging
wheel -> packaging[version='>=20.2']

Package pyshp conflicts for:
arcgis=1.6.0 -> pyshp
ibm-wsrt-py37main-main -> pyshp==2.1.0[build=*]

Package krb5 conflicts for:
libpq -> krb5[version='>=1.14.2,<1.15.0a0|>=1.16,<1.17.0a0|>=1.16.1,<1.17.0a0|>=1.16.2,<1.17.0a0|>=1.16.3,<1.17.0a0|>=1.16.4,<1.17.0a0|>=1.17.1,<1.18.0a0'|]
ibm-wsrt-py37main-main -> krb5==1.17.1[build=*]

Package oauthlib conflicts for:
ibm-wsrt-py37main-main -> oauthlib==3.1.0[build=*]
requests-oauthlib -> oauthlib[version='>=0.6.2|>=3.0.0|>=2.1.0,<3.0.0'|]

Package pytest conflicts for:
ibm-wsrt-py37main-main -> pytest==5.4.3[build=*]
astropy -> pytest[version='<3.7|<4'|]

Package ipython conflicts for:
ipykernel -> ipython[version='>=4.0.0|>=4.0|>=5.0'|]
jupyterlab -> ipython
ibm-wsrt-py37main-main -> ipython==7.15.0[build=*]
ipywidgets -> ipython[version='>=4.0.0'|]

Package traitlets conflicts for:
jupyter_client -> traitlets
ipykernel -> traitlets[version='>=4.1'|]
ipython -> traitlets[version='>=4.2'|]
nbconvert -> traitlets[version='>=4.2'|]
widgetsnbextension -> traitlets[version='>=4.3.1'|]
ibm-wsrt-py37main-main -> traitlets==4.3.3[build=*]
notebook -> traitlets[version='>=4.2.1|>=4.3'|]
jupyter_core -> traitlets
nbformat -> traitlets[version='>=4.1'|]
ipywidgets -> traitlets[version='>=4.2.1|>=4.3.1|>=4.3.1,<5.0.0|>=4.3.1,<6.0.0'|]

Package pycparser conflicts for:
cffi -> pycparser
ibm-wsrt-py37main-main -> pycparser==2.20[build=*]

Package h5py conflicts for:
tensorflow-base -> h5py[version='>=2.10.0,<2.11.0a0'|]
ibm-wsrt-py37main-main -> h5py==2.10.0[build=*]
keras-applications -> h5py

Package _py-xgboost-mutex conflicts for:
py-xgboost -> _py-xgboost-mutex[version='1.0|2.0',build='gpu_0|cpu_0'|]
ibm-wsrt-py37main-main -> _py-xgboost-mutex==2.0=cpu_0

Package py conflicts for:
ibm-wsrt-py37main-main -> py==1.8.2[build=*]
pyzmq -> py
pytest -> py[version='>=1.4.29|>=1.4.33|>=1.5.0|>=1.8.2'|]

Package ninja conflicts for:

```
pytorch -> ninja
ibm-wsrt-py37main-main -> ninja==1.9.0[build=*]

Package regex conflicts for:
ibm-wsrt-py37main-main -> regex==2020.6.8[build=*]
nltk -> regex

Package json5 conflicts for:
jupyterlab_server -> json5
ibm-wsrt-py37main-main -> json5==0.9.5[build=*]

Package cffi conflicts for:
ibm-wsrt-py37main-main -> cffi==1.14.0[build=*]
pytorch -> cffi
cryptography -> cffi[version='!=1.11.3,>=1.8|>=1.8,!<1.11.3|>=1.7|>=1.8']
brotlipy -> cffi[version='>=1.0.0']

Package cycler conflicts for:
ibm-wsrt-py37main-main -> cycler==0.10.0[build=*]
matplotlib -> cycler[version='>=0.10']
matplotlib-base -> cycler[version='>=0.10']

Package pyrsistent conflicts for:
ibm-wsrt-py37main-main -> pyrsistent==0.16.0[build=*]
jsonschema -> pyrsistent[version='>=0.14.0']

Package pandocfilters conflicts for:
ibm-wsrt-py37main-main -> pandocfilters==1.4.2[build=*]
nbconvert -> pandocfilters[version='>=1.4.1']

Package gmpy2 conflicts for:
mpmath -> gmpy2
sympy -> gmpy2[version='>=2.0.8']

Package markdown conflicts for:
ibm-wsrt-py37main-main -> markdown==3.1.1[build=*]
tensorboard -> markdown[version='>=2.6.11|>=2.6.8']
tensorflow-base -> markdown[version='>=2.6.11']

Package gettext conflicts for:
glib -> gettext[version='>=0.19.8.1,<1.0a0']
gst-plugins-base -> gettext[version='>=0.19.8.1,<1.0a0']
gstreamer -> gettext[version='>=0.19.8.1,<1.0a0']

Package aiohttp conflicts for:
google-auth -> aiohttp[version='>=3.6.2,<4.0.0dev']
ibm-wsrt-py37main-main -> aiohttp==3.6.2[build=*]

Package libgcc conflicts for:
scipy -> libgcc
pyqt -> libgcc
pytorch -> libgcc

Package click conflicts for:
nltk -> click
google-auth-oauthlib -> click
ibm-wsrt-py37main-main -> click==7.1.2[build=*]
```



```
5.0|>=0.3.0|>=0.2.0']
ibm-wsrt-py37main-main -> parso==0.7.0[build=*]

Package _libgcc_mutex conflicts for:
libgcc-ng -> _libgcc_mutex[version='*|0.1',build='main|conda_forge']
ibm-wsrt-py37main-main -> _libgcc_mutex==0.1[build=*]

Package wrapt conflicts for:
tensorflow-estimator -> wrapt[version='>=1.11.1']
tensorflow-base -> wrapt[version='>=1.11.1|>=1.11.2|>=1.12.1|>=1.11.2,<2.0a
0']
ibm-wsrt-py37main-main -> wrapt==1.12.1[build=*]

Package brotlipy conflicts for:
urllib3 -> brotlipy[version='>=0.6.0']
ibm-wsrt-py37main-main -> brotlipy==0.7.0[build=*]

Package gmp conflicts for:
ibm-wsrt-py37main-main -> gmp==6.1.2[build=*]
pandoc -> gmp

Package pyyaml conflicts for:
dask-core -> pyyaml
ibm-wsrt-py37main-main -> pyyaml==5.3.1[build=*]
bokeh -> pyyaml[version='>=3.10']

Package cudnn conflicts for:
pytorch -> cudnn[version='5.1.*|6.0.*|>=7.0.0,<=8.0a0|>=7.0.5,<=8.0a0|>=7.1.
0,<=8.0a0|>=7.1.3,<8.0a0|>=7.3.0,<=8.0a0|>=7.6,<8.0a0|>=7.6.5,<8.0a0|>=7.6.4,
<8.0a0|>=7.3.1,<8.0a0|>=7.1.2,<=8.0a0']
tensorflow-base -> cudnn[version='>=7.0.0,<=8.0a0|>=7.1.0,<=8.0a0|>=7.2.0,<=
8.0a0|>=7.3.1,<8.0a0|>=7.6,<8.0a0|>=7.6.5,<8.0a0|>=7.6.0,<8.0a0|>=7.6.4,<8.0a
0|>=7.1.2,<=8.0a0|>=7.0.5,<=8.0a0']

Package libuuid conflicts for:
ibm-wsrt-py37main-main -> libuuid==1.0.3[build=*]
fontconfig -> libuuid[version='>=1.0.3,<2.0a0|>=2.32.1,<3.0a0']

Package docutils conflicts for:
ibm-wsrt-py37main-main -> docutils==0.15.2[build=*]
botocore -> docutils[version='>=0.10|>=0.10,<0.15|>=0.10,<0.16']

Package html5lib conflicts for:
ibm-wsrt-py37main-main -> html5lib==1.1.0[build=*]
bleach -> html5lib[version='>=0.999,!0.9999,!0.99999,<0.99999999|>=0.999999
99|>=0.99999999pre,!1.0b1,!1.0b2,!1.0b3,!1.0b4,!1.0b5,!1.0b6,!1.0b7,!=
1.0b8']
tensorboard -> html5lib[version='0.9999999|>=0.9999999,<0.10000000.0a0']

Package cachetools conflicts for:
ibm-wsrt-py37main-main -> cachetools==4.1.1[build=*]
google-auth -> cachetools[version='>=2.0.0,<3.2|>=2.0.0,<5.0|>=2.0.0,<3dev']

Package contextlib2 conflicts for:
importlib_metadata -> contextlib2
importlib-metadata -> contextlib2
```

```
Package fontconfig conflicts for:
ibm-wsrt-py37main-main -> fontconfig==2.13.0[build=*]
qt -> fontconfig[version='2.12.*|>=2.13.1,<3.0a0|>=2.13.0,<3.0a0|>=2.12.6,<3.0a0|>=2.12.4,<3.0a0']

Package ptyprocess conflicts for:
ibm-wsrt-py37main-main -> ptyprocess==0.6.0[build=*]
terminado -> ptyprocess
pexpect -> ptyprocess[version='>=0.5']

Package gst-plugins-base conflicts for:
qt -> gst-plugins-base[version='>=1.12.2,<1.13.0a0|>=1.12.4,<1.13.0a0|>=1.12.5,<1.13.0a0|>=1.14.4,<1.15.0a0|>=1.14.0,<1.15.0a0']
ibm-wsrt-py37main-main -> gst-plugins-base==1.14.0[build=*]

Package jupyterlab_server conflicts for:
ibm-wsrt-py37main-main -> jupyterlab_server==1.1.0[build=*]
jupyterlab -> jupyterlab_server[version='>=0.2.0,<0.3.0|>=1.0.0,<2.0.0|>=1.1.0,<2.0.0|>=2.0.0,<3.0.0']

Package keras-applications conflicts for:
ibm-wsrt-py37main-main -> keras-applications==1.0.8[build=*]
tensorflow-base -> keras-applications[version='>=1.0.5|>=1.0.6|>=1.0.8|>=1.0.8,<2.0a0']

Package networkx conflicts for:
ibm-wsrt-py37main-main -> networkx==2.4[build=*]
scikit-image -> networkx[version='>=1.8,<2.0|>=1.8|>=2.0']

Package pyasn1-modules conflicts for:
google-auth -> pyasn1-modules[version='>=0.0.5,<1dev|>=0.2.1']
ibm-wsrt-py37main-main -> pyasn1-modules==0.2.8[build=*]

Package tensorflow-estimator conflicts for:
ibm-wsrt-py37main-main -> tensorflow-estimator==2.1.0[build=*]
tensorflow-base -> tensorflow-estimator[version='>=1.13.0,<1.14.0a0|>=1.14.0rc0,<1.15.0a0']

Package s3transfer conflicts for:
boto3 -> s3transfer[version='>=0.1.0,<0.2.0|>=0.1.10,<0.2.0|>=0.2.0,<0.3.0|>=0.3.0,<0.4.0']
ibm-wsrt-py37main-main -> s3transfer==0.3.3[build=*]

Package jupyter_server conflicts for:
jupyterlab_server -> jupyter_server[version='>=1.1.0,<2.0.0']
jupyterlab -> jupyter_server[version='>=1.1.0,<2.0.0']
Note that strict channel priority may have removed packages required for satisfaction.

Collecting package metadata (current_repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible solve.
Solving environment: failed with repodata from current_repodata.json, will retry with next repodata source.
Collecting package metadata (repodata.json): done
Solving environment: failed with initial frozen solve. Retrying with flexible solve.
```

```
Solving environment: -
Found conflicts! Looking for incompatible packages.
This can take several minutes. Press CTRL-C to abort.

\failed

UnsatisfiableError: The following specifications were found
to be incompatible with the existing python installation in your environment:

Specifications:

- cffi -> python[version='2.7.*|3.5.*|3.6.*|3.6.12|3.6.12|>=3.6,<3.7.0a0|>=
3.7,<3.8.0a0|>=3.9,<3.10.0a0|>=3.8,<3.9.0a0|3.7.9|3.6.9|3.6.9|>=2.7,<2.
8.0a0|3.6.9|>=3.5,<3.6.0a0|3.4.*',build='1_73_pypy|3_73_pypy|4_73_pypy|5_73_p
pypy|2_73_pypy|0_73_pypy']
- geopy -> python[version='2.7.*|3.4.*|3.5.*|3.6.*']
- rsa -> python[version='2.7.*|3.4.*|3.5.*|3.6.*']

Your python: python=3.7

If python is on the left-most side of the chain, that's the version you've as
ked for.
When python appears to the right, that indicates that the thing on the left i
s somehow
not available for the python version you are constrained to. Note that conda
will not
change your python version to a different minor version unless you explicitly
specify
that.

The following specifications were found to be incompatible with each other:

Output in format: Requested package -> Available versions

Package pillow conflicts for:
imageio -> pillow
ibm-wsrt-py37main-main -> pillow==7.2.0[build=*]
matplotlib-base -> pillow[version='>=6.2.0']
bokeh -> pillow[version='>=4.0|>=7.1.0']
scikit-image -> pillow[version='>=1.7.8|>=2.1.0|>=4.3.0']

Package traitlets conflicts for:
nbconvert -> traitlets[version='>=4.2']
jupyter_client -> traitlets
widgetsnbextension -> traitlets[version='>=4.3.1']
notebook -> traitlets[version='>=4.2.1|>=4.3']
ibm-wsrt-py37main-main -> traitlets==4.3.3[build=*]
nbformat -> traitlets[version='>=4.1']
ipython -> traitlets[version='>=4.2']
ipykernel -> traitlets[version='>=4.1']
jupyter_core -> traitlets
ipywidgets -> traitlets[version='>=4.2.1|>=4.3.1|>=4.3.1,<5.0.0|>=4.3.1,<6.0.
0']

Package jedi conflicts for:
ipython -> jedi[version='<0.18|>=0.10|>=0.10,<0.18|>=0.16,<1.0|>=0.16']
ibm-wsrt-py37main-main -> jedi==0.17.1[build=*]
```

Package libgcc-ng conflicts for:

pillow -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scipy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
py-xgboost -> libgcc-ng[version='>=4.9|>=7.3.0|>=5.4.0|>=7.2.0']
krb5 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
mkl_random -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
libpq -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
kiwisolver -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
libedit -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
multidict -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
gst-plugins-base -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
blosc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
astropy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libtiff -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyyaml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libpng -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
mkl_fft -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
tensorflow-base -> libgcc-ng[version='>=5.4.0|>=7.2.0']
ncurses -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
sqlite -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
statsmodels -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
tornado -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scikit-learn -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libffi -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
yarl -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
grpcio -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
dbus -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
zstd -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyqt -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pymssql -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0']
libuuid -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=9.3.0']
lcms2 -> libgcc-ng[version='>=7.3.0|>=7.5.0']
qt -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
gstreamer -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libxcb -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
pcre -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
freetype -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
protobuf -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
psycopg2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
gmp -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
yaml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pandas -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
cx_oracle -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
tk -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libxgboost -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=5.4.0|>=7.2.0']
freetds -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
cffi -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
tensorboard -> libgcc-ng[version='>=7.2.0|>=7.3.0']
c-ares -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0']
fastcache -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
sip -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
matplotlib-base -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
markupsafe -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
readline -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']

```
openssl -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
bzip2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
h5py -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
cryptography -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
zeromq -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
icu -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
python=3.7 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
fontconfig -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyodbc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
lzo -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libxml2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyrsistent -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
cytoolz -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
numpy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
ninja -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
pytorch -> libgcc-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
glib -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libxslt -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
scikit-image -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
expat -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
blas -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
aiohttp -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
unixodbc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
lxml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
xz -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
snappy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
regex -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mkl-service -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
zlib -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
numpy-base -> libgcc-ng[version='>=7.2.0|>=7.3.0']
biopython -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pywavelets -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
matplotlib -> libgcc-ng[version='>=7.2.0|>=7.3.0']
wrapt -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libprotobuf -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyzmq -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
jpeg -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
brotli -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
ibm-wsrt-py37main-main -> libgcc-ng==9.1.0[build=*]
pytables -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
numexpr -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
hdf5 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
sqlalchemy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mistune -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
lz4-c -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libsodium -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
```

Package entrypoints conflicts for:

```
jupyter_client -> entrypoints
keyring -> entrypoints
nbconvert -> entrypoints[version='>=0.2.2']
ibm-wsrt-py37main-main -> entrypoints==0.3[build=*]
```

Package libpng conflicts for:

```
matplotlib -> libpng[version='>=1.6.23,<1.7|>=1.6.37,<1.7.0a0|>=1.6.36,<1.7.0a0|>=1.6.35,<1.7.0a0|>=1.6.34,<1.7.0a0|>=1.6.32,<1.7.0a0']'
gst-plugins-base -> libpng[version='>=1.6.37,<1.7.0a0']
```

```
tensorflow-base -> libpng[version='>=1.6.37,<1.7.0a0']
freetype -> libpng[version='1.6.*|>=1.6.21,<1.7|>=1.6.22,<1.6.31|>=1.6.32,<1.
6.35|>=1.6.34,<1.7.0a0|>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0|>=1.6.28,<1.7|>=1.
6.23,<1.7|>=1.6.32,<1.7.0a0']
matplotlib-base -> libpng[version='>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0']
ibm-wsrt-py37main-main -> libpng==1.6.37[build=*]
qt -> libpng[version='>=1.6.28,<1.7|>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0|>=1.
6.36,<1.7.0a0|>=1.6.34,<1.7.0a0|>=1.6.32,<1.7.0a0']
fontconfig -> libpng[version='>=1.6.21,<1.7|>=1.6.22,<1.6.31|>=1.6.32,<1.6.35
|>=1.6.34,<1.7.0a0|>=1.6.35,<1.7.0a0|>=1.6.37,<1.7.0a0|>=1.6.28,<1.7|>=1.6.2
3,<1.7|>=1.6.32,<1.7.0a0']
```

Package mpich conflicts for:

```
h5py -> mpich[version='>=3.2,<3.3.0a0|>=3.2.1,<3.3.0a0|>=3.3.1,<4.0.0a0|>=3.
3.2,<4.0.0a0']
hdf5 -> mpich[version='>=3.2,<3.3.0a0|>=3.3,<4.0.0a0']
```

Package xz conflicts for:

```
libtiff -> xz[version='5.0.*|5.2.*|>=5.2.3,<5.3.0a0|>=5.2.4,<5.3.0a0|>=5.2.5,
<5.3.0a0|>=5.2.5,<6.0a0|>=5.2.4,<6.0a0|>=5.2.3,<6.0a0']
libxml2 -> xz[version='5.0.*|5.2.*|>=5.2.3,<5.3.0a0|>=5.2.4,<5.3.0a0|>=5.2.5,
<5.3.0a0|>=5.2.5,<6.0a0|>=5.2.4,<6.0a0|>=5.2.3,<6.0a0']
ibm-wsrt-py37main-main -> xz==5.2.5[build=*]
zstd -> xz[version='>=5.2.4,<5.3.0a0|>=5.2.5,<5.3.0a0|>=5.2.5,<6.0a0|>=5.2.4,
<6.0a0']
python=3.7 -> xz[version='>=5.2.3,<5.3.0a0|>=5.2.4,<5.3.0a0|>=5.2.5,<5.3.0a0|
|>=5.2.5,<6.0a0|>=5.2.4,<6.0a0']
gstreamer -> xz[version='>=5.2.3,<6.0a0|>=5.2.4,<5.3.0a0']
gst-plugins-base -> xz[version='>=5.2.3,<6.0a0|>=5.2.4,<5.3.0a0']
```

Package pexpect conflicts for:

```
ibm-wsrt-py37main-main -> pexpect==4.8.0[build=*]
ipython -> pexpect[version='>4.3']
```

Package zipp conflicts for:

```
importlib-metadata -> zipp[version='>=0.5']
importlib_metadata -> zipp[version='>=0.3.2|>=0.5']
ibm-wsrt-py37main-main -> zipp==3.1.0[build=*]
```

Package ptyprocess conflicts for:

```
ibm-wsrt-py37main-main -> ptyprocess==0.6.0[build=*]
pexpect -> ptyprocess[version='>=0.5']
terminado -> ptyprocess
```

Package joblib conflicts for:

```
nltk -> joblib
scikit-learn -> joblib[version='>=0.11']
ibm-wsrt-py37main-main -> joblib==0.16.0[build=*]
```

Package pypy3.7 conflicts for:

```
scipy -> pypy3.7[version='>=7.3.3']
setuptools -> pypy3.7[version='>=7.3.3']
jedi -> pypy3.7[version='>=7.3.3']
regex -> pypy3.7[version='>=7.3.3']
biopython -> pypy3.7[version='>=7.3.3']
chardet -> pypy3.7[version='>=7.3.3']
jupyter_core -> pypy3.7[version='>=7.3.3']
```

```
lxml -> pypy3.7[version='>=7.3.3']
mock -> pypy3.7[version='>=7.3.3']
ipython -> pypy3.7[version='>=7.3.3']
sympy -> pypy3.7[version='>=7.3.3']
scikit-image -> pypy3.7[version='>=7.3.3']
numpy -> pypy3.7[version='>=7.3.3']
future -> pypy3.7[version='>=7.3.3']
pysocks -> pypy3.7[version='>=7.3.3']
matplotlib -> pypy3.7[version='>=7.3.3']
secretstorage -> pypy3.7[version='>=7.3.3']
kiwisolver -> pypy3.7[version='>=7.3.3']
aiohttp -> pypy3.7[version='>=7.3.3']
keyring -> pypy3.7[version='>=7.3.3']
widgetsnbextension -> pypy3.7[version='>=7.3.3']
multidict -> pypy3.7[version='>=7.3.3']
sqlalchemy -> pypy3.7[version='>=7.3.3']
yarl -> pypy3.7[version='>=7.3.3']
docutils -> pypy3.7[version='>=7.3.3']
tornado -> pypy3.7[version='>=7.3.3']
astropy -> pypy3.7[version='>=7.3.3']
markupsafe -> pypy3.7[version='>=7.3.3']
cffi -> pypy3.7=7.3.3
scikit-learn -> pypy3.7[version='>=7.3.3']
importlib-metadata -> pypy3.7[version='>=7.3.3']
cx_oracle -> pypy3.7[version='>=7.3.3']
notebook -> pypy3.7[version='>=7.3.3']
nbconvert -> pypy3.7[version='>=7.3.3']
pluggy -> pypy3.7[version='>=7.3.3']
bokeh -> pypy3.7[version='>=7.3.3']
terminado -> pypy3.7[version='>=7.3.3']
certifi -> pypy3.7[version='>=7.3.3']
numexpr -> pypy3.7[version='>=7.3.3']
pyzmq -> pypy3.7[version='>=7.3.3']
cryptography -> pypy3.7[version='>=7.3.3']
matplotlib-base -> pypy3.7[version='>=7.3.3']
python=3.7 -> pypy3.7=7.3.3
brotlipy -> pypy3.7[version='>=7.3.3']
wrapt -> pypy3.7[version='>=7.3.3']
protobuf -> pypy3.7[version='>=7.3.3']
pywavelets -> pypy3.7[version='>=7.3.3']
pandas -> pypy3.7[version='>=7.3.3']
ipykernel -> pypy3.7[version='>=7.3.3']
pyrsistent -> pypy3.7[version='>=7.3.3']
pyyaml -> pypy3.7[version='>=7.3.3']
pytest -> pypy3.7[version='>=7.3.3']
pytables -> pypy3.7[version='>=7.3.3']
cytoolz -> pypy3.7[version='>=7.3.3']
mistune -> pypy3.7[version='>=7.3.3']
pillow -> pypy3.7[version='>=7.3.3']
```

Package idna conflicts for:

```
urllib3 -> idna[version='>=2.0.0']
yarl -> idna[version='>=2.0']
ibm-wsrt-py37main-main -> idna==2.9[build=*]
cryptography -> idna[version='>=2.1']
requests -> idna[version='>=2.5,<2.6|>=2.5,<2.7|>=2.5,<2.8|>=2.5,<2.9|>=2.5,<3']
```

```
Package configparser conflicts for:
importlib_metadata -> configparser[version='>=3.5']
importlib-metadata -> configparser[version='>=3.5']
entrypoints -> configparser[version='>=3.5']

Package prompt-toolkit conflicts for:
ibm-wsrt-py37main-main -> prompt-toolkit==3.0.5[build=*]
ipython -> prompt-toolkit[version='!=3.0.0,!<3.0.1,<3.1.0,>=2.0.0|>=2.0.0,!<3.0.0,!<3.0.1,<3.1.0']

Package google-auth conflicts for:
tensorboard -> google-auth[version='>=1.6.3,<2']
ibm-wsrt-py37main-main -> google-auth==1.22.0[build=*]
google-auth-oauthlib -> google-auth

Package python_abi conflicts for:
mkl_fft -> python_abi[version='3.6.*|3.9.*|3.8.*|3.7.*',build='*_cp37m|*_cp36m|*_cp39|*_cp38']
docutils -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp39|*_pypy37_pp73|*_cp37m|*_cp38|*_pypy36_pp73']
brotlipy -> python_abi[version='3.6|3.6.*|3.7|3.9.*|3.8.*|3.7.*',build='*_pypy36_pp73|*_cp36m|*_cp39|*_pypy37_pp73|*_cp38|*_cp37m']
pytest -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.9.*|3.7.*',build='*_cp36m|*_pypy37_pp73|*_cp39|*_cp38|*_pypy36_pp73|*_cp37m']
cytoolz -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.9.*|3.7',build='*_cp36m|*_pypy37_pp73|*_cp39|*_pypy36_pp73|*_cp37m|*_cp38']
pillow -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_pypy36_pp73|*_cp37m|*_pypy37_pp73']
sqlalchemy -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_cp39|*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp37m|*_cp38']
notebook -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp39|*_cp36m|*_pypy37_pp73|*_cp37m|*_cp38']
pickleshare -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy36_pp73']
future -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp39|*_pypy37_pp73|*_cp37m|*_cp38|*_pypy36_pp73']
grpcio -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_pypy36_pp73|*_cp36m|*_cp39|*_cp38|*_cp37m']
traitlets -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_cp37m|*_pypy36_pp73']
matplotlib-base -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp39|*_cp37m|*_cp38']
pysocks -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7.*|3.8.*|3.7',build='*_cp27mu|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp39|*_pypy36_pp73|*_cp38']
ipykernel -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*|3.7|3.9.*',build='*_cp39|*_cp36m|*_pypy36_pp73|*_cp38|*_cp37m|*_pypy37_pp73']
matplotlib -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp39|*_cp37m|*_cp38']
pytables -> python_abi[version='3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp39|*_cp36m|*_pypy37_pp73|*_cp37m']
glib -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp37m|*_pypy36_pp73|*_cp38']
pyrsistent -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp36m|*_pypy36_pp73|*_cp39|*_cp37m|*_pypy37_pp73|*_cp38']
beautifulsoup4 -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp37m|*_pypy37_pp73|*_cp38]
```

_cp38|*_cp37m|*_pypy36_pp73']
pandas -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.9.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_cp38|*_cp39|*_pypy37_pp73|*_cp37m']
pyqt -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp38|*_cp39|*_cp37m']
mkl_random -> python_abi[version='3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp38|*_cp37m']
jsonschema -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_cp37m|*_pypy36_pp73']
regex -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_pypy37_pp73|*_cp36m|*_cp39|*_pypy36_pp73|*_cp37m|*_cp38|*_cp27mu']
dll -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp27mu|*_cp36m|*_cp38|*_pypy36_pp73|*_cp37m']
psycopg2 -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp38|*_cp39|*_cp36m|*_cp37m']
ipython -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp38|*_cp39|*_cp37m']
secretstorage -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_cp38|*_cp36m|*_cp39|*_pypy37_pp73|*_cp37m|*_pypy36_pp73']
fastcache -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp39|*_cp36m|*_cp37m']
multidict -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.7|3.9.*',build='*_cp39|*_cp36m|*_pypy37_pp73|*_cp38|*_cp37m|*_pypy36_pp73']
absl-py -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp27mu|*_cp39|*_cp36m|*_pypy36_pp73|*_cp38|*_cp37m']
pluggy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_pypy37_pp73|*_pypy36_pp73|*_cp37m']
python=3.7 -> python_abi==3.7[build='*_pypy37_pp73']
lxml -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_pypy37_pp73|*_pypy36_pp73|*_cp36m|*_cp38|*_cp39|*_cp37m']
numpy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy37_pp73|*_pypy36_pp73']
tornado -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*|3.9.*|3.7',build='*_pypy36_pp73|*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy37_pp73']
tensorflow-base -> python_abi[version='3.6.*|3.7.*',build='*_cp36m|*_cp37m']
statsmodels -> python_abi[version='3.6|3.6.*|3.8.*|3.9.*|3.7.*',build='*_pypy36_pp73|*_cp37m|*_cp36m|*_cp39|*_cp38']
pytorch -> python_abi[version='3.6.*|3.7.*|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_cp38|*_cp37m']
pywavelets -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.9.*|3.7.*',build='*_cp39|*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp38|*_cp37m']
markupsafe -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.7.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp39|*_pypy37_pp73|*_cp37m|*_cp38|*_pypy36_pp73']
jedi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp39|*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp37m']
bokeh -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_pypy36_pp73|*_cp39|*_pypy37_pp73|*_cp37m']
kiwisolver -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_cp36m|*_cp39|*_pypy36_pp73|*_cp37m|*_pypy37_pp73']
cryptography -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_pypy36_pp73|*_cp38|*_pypy37_pp73|*_cp36m|*_cp39|*_cp37m']
scikit-image -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_pypy36_pp73|*_cp38|*_cp39|*_pypy37_pp73|*_cp37m']
keyring -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_pypy37_pp73|*_cp37m|*_pypy36_pp73']
nbconvert -> python_abi[version='3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_pypy37_pp73|*_pypy36_pp73|*_cp37m']

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typing_extensions -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp27mu|*_cp36m|*_cp38|*_pypy36_pp73|*_cp37m']
soupsieve -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_cp37m|*_pypy36_pp73']
ninja -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*',build='*_cp36m|*_pypy36_pp73|*_cp38|*_cp37m']
pyyaml -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_pypy37_pp73|*_cp39|*_cp36m|*_pypy36_pp73|*_cp37m']
biopython -> python_abi[version='3.6|3.6.*|3.9.*|3.7.*|3.7|3.8.*',build='*_cp38|*_pypy37_pp73|*_cp39|*_cp36m|*_pypy36_pp73|*_cp37m']
scikit-learn -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.7.*|3.9.*',build='*_cp39|*_cp38|*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp37m']
scipy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_cp38|*_pypy37_pp73|*_cp37m|*_pypy36_pp73']
entrypoints -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_cp39|*_cp36m|*_pypy36_pp73|*_cp37m|*_cp38']
py-xgboost -> python_abi[version='3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp39|*_cp36m|*_cp38|*_cp37m']
mock -> python_abi[version='2.7.*|3.6.*|3.6|3.9.*|3.7.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_cp36m|*_cp39|*_pypy36_pp73|*_cp37m|*_pypy37_pp73']
widgetsnbextension -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp39|*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp37m']
setuptools -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp38|*_cp39|*_cp36m|*_pypy37_pp73|*_cp37m']
wrapt -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp38|*_cp39|*_cp37m|*_cp27mu']
s3transfer -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy36_pp73']
aiohttp -> python_abi[version='3.6|3.6.*|3.8.*|3.9.*|3.7.*|3.7',build='*_pypy37_pp73|*_cp39|*_cp36m|*_pypy36_pp73|*_cp38|*_cp37m']
numexpr -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp39|*_pypy36_pp73|*_cp36m|*_pypy37_pp73|*_cp37m']
cx_oracle -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_cp38|*_cp36m|*_cp37m|*_cp39|*_pypy37_pp73|*_pypy36_pp73|*_cp27mu']
pexpect -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*',build='*_cp27mu|*_cp36m|*_cp38|*_pypy36_pp73|*_cp37m']
mk1-service -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp39|*_cp36m|*_cp37m']
requests -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp27mu|*_cp36m|*_cp38|*_pypy36_pp73|*_cp37m']
pyzmq -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.9.*|3.7.*|3.7',build='*_cp27mu|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp39|*_cp38|*_pypy36_pp73']
h5py -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_cp37m']
pymssql -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp38|*_cp39|*_cp37m']
cffi -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_pypy37_pp73|*_pypy36_pp73|*_cp36m|*_cp38|*_cp39|*_cp37m']
urllib3 -> python_abi[version='2.7.*|3.8.*|3.6.*|3.6|3.7.*',build='*_pypy36_pp73|*_cp36m|*_cp27mu|*_cp38|*_cp37m']
mistune -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.8.*|3.7.*',build='*_cp27mu|*_pypy36_pp73|*_cp36m|*_cp39|*_pypy37_pp73|*_cp38|*_cp37m']
jupyter_core -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.7|3.8.*|3.9.*',build='*_cp27mu|*_cp36m|*_cp39|*_pypy37_pp73|*_cp38|*_cp37m|*_pypy36_pp73']
astropy -> python_abi[version='3.6.*|3.7.*|3.7|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_pypy37_pp73|*_cp38|*_cp37m']
sip -> python_abi[version='3.6.*|3.8.*|3.9.*|3.7.*',build='*_cp37m|*_cp36m|*_
```

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cp39|*_cp38']
protobuf -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.8.*|3.9.*',build='*_cp3
9|*_cp38|*_cp36m|*_pypy36_pp73|*_cp37m|*_pypy37_pp73']
terminado -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build
='*_cp27mu|*_cp36m|*_cp39|*_pypy37_pp73|*_cp37m|*_cp38|*_pypy36_pp73']
chardet -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build
='*_cp27mu|*_pypy37_pp73|*_pypy36_pp73|*_cp36m|*_cp38|*_cp39|*_cp37m']
sympy -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp39|*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp38|*_cp27mu']
certifi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build
='*_cp27mu|*_cp38|*_cp36m|*_cp39|*_pypy36_pp73|*_pypy37_pp73|*_cp37m']
importlib-metadata -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.
8.*',build='*_cp27mu|*_cp38|*_cp39|*_cp36m|*_cp37m|*_pypy36_pp73|*_pypy37_pp7
3']
yarl -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_pypy36_pp73|*_cp39|*_pypy37_pp73|*_cp37m']
pyodbc -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_cp39|*_cp37m']

```

Package libstdcxx-ng conflicts for:

```

ncurses -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libffi -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
numexpr -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
yaml -> libstdcxx-ng[version='>=7.3.0']
blosc -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
py-xgboost -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=5.4.0|>=7.2.0']
krb5 -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
tensorflow-base -> libstdcxx-ng[version='>=5.4.0|>=7.2.0']
gst-plugins-base -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.
2.0']
pandas -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pytables -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
hdf5 -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
snappy -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
numpy -> libstdcxx-ng[version='>=4.9|>=7.3.0']
pcre -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.2.0']
zeromq -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
ninja -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
glib -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pyqt -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pyzmq -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
python=3.7 -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
gmp -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
sqlite -> libstdcxx-ng[version='>=4.9|>=7.3.0']
mkl_fft -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
zstd -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
kiwisolver -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
protobuf -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pytorch -> libstdcxx-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
icu -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
matplotlib-base -> libstdcxx-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
pyodbc -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mkl_random -> libstdcxx-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
freetds -> libstdcxx-ng[version='>=4.9|>=7.3.0']
expat -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
lz4-c -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
pymssql -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0']

```

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unixodbc -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0']
matplotlib -> libstdc++-ng[version='>=7.2.0|>=7.3.0']
ibm-wsrt-py37main-main -> libstdc++-ng==9.1.0[build=*]
biopython -> libstdc++-ng[version='>=7.2.0']
libprotobuf -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libtiff -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libxgboost -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=5.4.0|>=7.2.0']
grpcio -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
qt -> libstdc++-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
tensorboard -> libstdc++-ng[version='>=7.2.0|>=7.3.0']
scipy -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
sip -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scikit-learn -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scikit-image -> libstdc++-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
freetype -> libstdc++-ng[version='>=4.9']
```

Package pypy3.6 conflicts for:

```
pyrsistent -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
aiohttp -> pypy3.6[version='>=7.3.2|>=7.3.3']
terminado -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
cx_oracle -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
s3transfer -> pypy3.6[version='>=7.3.2']
sympy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
scikit-image -> pypy3.6[version='>=7.3.2']
biopython -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
markupsafe -> pypy3.6[version='>=7.3.2|>=7.3.3']
ipython -> pypy3.6[version='>=7.3.1|>=7.3.3']
tornado -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
matplotlib-base -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
docutils -> pypy3.6[version='>=7.3.2|>=7.3.3']
certifi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
sqlalchemy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
absl-py -> pypy3.6[version='>=7.3.1|>=7.3.2']
matplotlib -> pypy3.6[version='>=7.3.2|>=7.3.3']
keyring -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
beautifulsoup4 -> pypy3.6[version='>=7.3.1']
ninja -> pypy3.6[version='>=7.3.1']
lxml -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
pandas -> pypy3.6[version='>=7.3.1|>=7.3.2']
pytest -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
pyzmq -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
entrypoints -> pypy3.6[version='>=7.3.2']
numexpr -> pypy3.6[version='>=7.3.2|>=7.3.3']
cryptography -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
widgetsnbextension -> pypy3.6[version='>=7.3.1|>=7.3.2']
mistune -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
regex -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
nbconvert -> pypy3.6[version='>=7.3.1|>=7.3.2']
wrapt -> pypy3.6[version='>=7.3.2|>=7.3.3']
pickleshare -> pypy3.6[version='>=7.3.2']
future -> pypy3.6[version='>=7.3.2|>=7.3.3']
brotlipy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
mock -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
numpy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
kiwisolver -> pypy3.6[version='>=7.3.2|>=7.3.3']
jedi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
```

```
pyyaml -> pypy3.6[version='>=7.3.2|>=7.3.3']
scikit-learn -> pypy3.6[version='>=7.3.2|>=7.3.3']
pywavelets -> pypy3.6[version='>=7.3.1|>=7.3.2']
pillow -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
psycopg2 -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
statsmodels -> pypy3.6[version='>=7.3.3']
protobuf -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
cytoolz -> pypy3.6[version='>=7.3.3']
yarl -> pypy3.6[version='>=7.3.2|>=7.3.3']
soupsieve -> pypy3.6[version='>=7.3.1']
secretstorage -> pypy3.6[version='>=7.3.2']
pluggy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
importlib-metadata -> pypy3.6[version='>=7.3.1|>=7.3.3']
chardet -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
scipy -> pypy3.6[version='>=7.3.1|>=7.3.2']
bokeh -> pypy3.6[version='>=7.3.1|>=7.3.2']
setuptools -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
notebook -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
cffi -> pypy3.6[version='7.3.0.*|7.3.1.*|7.3.2.*|7.3.3.*']
jupyter_core -> pypy3.6[version='>=7.3.2|>=7.3.3']
ipykernel -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
psutil -> pypy3.6[version='>=7.3.2|>=7.3.3']
multidict -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
```

Package pyopenssl conflicts for:

```
urllib3 -> pyopenssl[version='>=0.14']
ibm-wsrt-py37main-main -> pyopenssl==19.1.0[build=*]
```

Package mkl conflicts for:

```
numexpr -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.1,<2019.0a0|>=2018.0.2,
<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.4,<2021.0a0']
numpy-base -> mkl[version='>=2018.0.2,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.
1,<2021.0a0|>=2019.3,<2021.0a0|>=2019.4,<2021.0a0']
scikit-learn -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.3,<2019.0a0|>=201
9.1,<2021.0a0|>=2019.3,<2021.0a0|>=2019.4,<2021.0a0']
ibm-wsrt-py37main-main -> mkl==2020.1[build=*]
tensorflow-base -> mkl[version='>=2018.0.2,<2019.0a0']
mkl_fft -> mkl[version='>=2018.0.3,<2019.0a0|>=2019.1,<2020.0a0|>=2019.3,<202
0.0a0|>=2019.4,<2020.0a0|>=2020.2,<2021.0a0|>=2019.4,<2021.0a0|>=2019.3,<202
1.0a0|>=2019.1,<2021.0a0']
scipy -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.2,<2019.0a0|>=2018.0.3,<2
019.0a0|>=2019.1,<2021.0a0|>=2019.4,<2021.0a0']
numpy -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.1,<2019.0a0|>=2018.0.2,<2
019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.3,<2021.0a0|>=2019.4,<
2021.0a0']
mkl-service -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.
1,<2021.0a0|>=2019.3,<2020.0a0|>=2019.4,<2020.0a0|>=2020.2,<2021.0a0|>=2019.
4,<2021.0a0|>=2019.3,<2021.0a0']
blas -> mkl
mkl_random -> mkl[version='>=2018.0.3,<2019.0a0|>=2019.1,<2020.0a0|>=2019.3,<
2020.0a0|>=2019.4,<2020.0a0|>=2020.0,<2021.0a0|>=2020.2,<2021.0a0|>=2020.1,<2
021.0a0|>=2019.4,<2021.0a0|>=2019.1,<2021.0a0']
pytorch -> mkl[version='2019.*|>=2020.4,<2021.0a0|>=2019.4,<2021.0a0|>=2019.
1,<2021.0a0|>=2018.0.3,<2019.0a0|>=2018.0.2,<2019.0a0']
```

Package numpy conflicts for:

```
opt_einsum -> numpy
```

```
arcgis=1.6.0 -> numpy
nltk -> numpy
matplotlib-base -> numpy[version='>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.15.4,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0']
pandas -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.*|>=1.12.1,<2.0a0|>=1.14.6,<2.0a0|>=1.15.4,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.18.4,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.9.*|>=1.9|>=1.8|>=1.7|>=1.13.3,<2.0a0|>=1.11.3,<2.0a0']
tensorflow-estimator -> numpy[version='>=1.13.3|>=1.16.1']
pytables -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.11.3,<2.0a0']
h5py -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.11.3,<2.0a0']
numexpr -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.3|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.11.3,<2.0a0|>=1.16.4,<2.0a0|>=1.15.4,<2.0a0']
tensorflow-base -> numpy[version='>=1.12.1,<2.0a0|>=1.13.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.1,<2.0a0|>=1.16.6,<2.0a0|>=1.16.5,<2.0a0']
tensorboard -> numpy[version='>=1.12|>=1.12.0|>=1.16']
pytorch -> numpy[version='>=1.11|>=1.11.3,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.14.6,<2.0a0|>=1.9.3,<2.0a0|>=1.9']
ibm-wsrt-py37main-main -> numpy==1.18.5[build=*]
imageio -> numpy
matplotlib -> numpy[version='1.10.*|1.11.*|>=1.14.6,<2.0a0']
mkl-service -> numpy[version='>=1.11.3,<2.0a0']
patsy -> numpy[version='>=1.4.0']
seaborn -> numpy[version='>=1.13.3|>=1.9.3']
statsmodels -> numpy[version='1.10.*|1.11.*|>=1.11|>=1.14.6,<2.0a0|>=1.15.4,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.17.5,<2.0a0|>=1.9.3,<2.0a0|>=1.17.0,<2.0a0|>=1.19.1,<2.0a0|>=1.11.3,<2.0a0']
keras-applications -> numpy[version='>=1.9.1']
pywavelets -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.18.5,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.8|>=1.16.6,<2.0a0|>=1.11.3,<2.0a0']
py-xgboost -> numpy
scipy -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.18.1,<2.0a0|>=1.9.3,<2.0a0|>=1.9|>=1.15.1,<2.0a0']
keras-preprocessing -> numpy[version='>=1.9.1']
astropy -> numpy[version='1.11.*|1.12.*|1.13.*|>=1.10|>=1.11|>=1.13|>=1.14|>=1.16.5,<2.0a0|>=1.16|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19|>=1.17|>=1.9|>=1.16.6,<2.0a0|>=1.19.2,<2.0a0|>=1.17.0,<2.0a0|>=1.17.4,<2.0a0|>=1.13.3,<2.0a0|>=1.14.6,<2.0a0|>=1.11.3,<2.0a0|>=1.10.4,<2.0a0|>=1.9.3,<2.0a0|>=1.14.1,<2.0a0|>=1.14.0,<2.0a0']
bokeh -> numpy[version='>=1.11.3|>=1.7.1']
biopython -> numpy[version='1.11.*|1.12.*|1.13.*|>=1.8|>=1.11.3,<2.0a0|>=1.9.3,<2.0a0|>=1.14.1,<2.0a0']
mkl_random -> numpy[version='>=1.11.3,<2.0a0|>=1.11|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.9.3,<2.0a0|>=1.14,<2.0a0']
scikit-learn -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11.3,<2.0a0|>=
```

```
1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.18.5,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.9']  
scikit-image -> numpy[version='1.10.*|1.11.*|1.12.*|1.13.*|>=1.11|>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.16.6,<2.0a0|>=1.19.5,<2.0a0|>=1.19.4,<2.0a0|>=1.18.5,<2.0a0|>=1.19.2,<2.0a0|>=1.9.3,<2.0a0|>=1.13.3,<2.0a0'|>=1.19.2,<2.0a0']  
mkl_fft -> numpy[version='>=1.11|>=1.11.3,<2.0a0|>=1.14.6,<2.0a0|>=1.16.5,<2.0a0|>=1.19.2,<2.0a0']  
  
Package pygments conflicts for:  
ipython -> pygments  
nbconvert -> pygments[version='>=2.4.1']  
prompt-toolkit -> pygments  
ibm-wsrt-py37main-main -> pygments==2.6.1[build=*]  
  
Package prometheus_client conflicts for:  
ibm-wsrt-py37main-main -> prometheus_client==0.8.0[build=*]  
notebook -> prometheus_client  
  
Package typing_extensions conflicts for:  
bokeh -> typing_extensions[version='>=3.7.4']  
ibm-wsrt-py37main-main -> typing_extensions==3.7.4.2[build=*]  
pytorch -> typing_extensions  
aiohttp -> typing_extensions[version='>=3.6.5']  
importlib-metadata -> typing_extensions[version='>=3.6.4']  
  
Package enum34 conflicts for:  
absl-py -> enum34  
imageio -> enum34  
tensorflow-base -> enum34[version='>=1.1.6|>=1.1.6,<2.0a0']  
tensorflow-estimator -> enum34[version='>=1.1.6']  
brotlipy -> enum34  
cryptography -> enum34  
grpcio -> enum34[version='>=1.0.4']  
pyqt -> enum34  
traitlets -> enum34  
  
Package libgfortran conflicts for:  
numpy -> libgfortran[version='>=3.0']  
scipy -> libgfortran[version='>=3.0']  
hdf5 -> libgfortran[version='>=3.0']  
  
Package pyyaml conflicts for:  
ibm-wsrt-py37main-main -> pyyaml==5.3.1[build=*]  
dask-core -> pyyaml  
bokeh -> pyyaml[version='>=3.10']  
  
Package tornado conflicts for:  
jupyter_client -> tornado[version='>=4.1|>=4.1,<6']  
ipykernel -> tornado[version='>=4.0|>=4.2']  
notebook -> tornado[version='>=4|>=4,<6|>=4.1,<7|>=5.0,<7|>=5.0|>=6.1']  
bokeh -> tornado[version='>=4.3,<4.5|>=4.3|>=5|>=5.1']  
jupyterlab -> tornado[version='!=6.0.0,!=6.0.1,!=6.0.2|>=6.1|>=6.1.0']  
terminado -> tornado[version='>=4']  
matplotlib-base -> tornado  
ibm-wsrt-py37main-main -> tornado==6.0.4[build=*]  
matplotlib -> tornado
```

```
Package libuuid conflicts for:
ibm-wsrt-py37main-main -> libuuid==1.0.3[build=*]
fontconfig -> libuuid[version='>=1.0.3,<2.0a0|>=2.32.1,<3.0a0']

Package blosc conflicts for:
pytables -> blosc[version='>=1.14.3,<2.0a0|>=1.14.4,<2.0a0|>=1.15.0,<2.0a0|>=1.16.3,<2.0a0|>=1.17.0,<2.0a0|>=1.18.1,<2.0a0|>=1.20.1,<2.0a0|>=1.21.0,<2.0a0|>=2.0a0']
ibm-wsrt-py37main-main -> blosc==1.19.0[build=*]

Package ipython_genutils conflicts for:
notebook -> ipython_genutils
nbformat -> ipython_genutils
traitlets -> ipython_genutils
ibm-wsrt-py37main-main -> ipython_genutils==0.2.0[build=*]

Package jupyter_core conflicts for:
jupyter_client -> jupyter_core[version='>=4.6.0']
notebook -> jupyter_core[version='>=4.4.0|>=4.6.0|>=4.6.1']
jupyterlab -> jupyter_core
nbconvert -> jupyter_core
ibm-wsrt-py37main-main -> jupyter_core==4.6.3[build=*]
nbformat -> jupyter_core

Package zlib conflicts for:
tensorflow-base -> zlib[version='>=1.2.11,<1.3.0a0']
pytables -> zlib[version='1.2.*|1.2.11.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
protobuf -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
pandoc -> zlib[version='1.2.*|1.2.11|1.2.11.*']
python=3.7 -> zlib[version='>=1.2.11,<1.3.0a0']
gst-plugins-base -> zlib[version='>=1.2.11,<1.3.0a0']
pillow -> zlib[version='1.2.*|1.2.11|1.2.11.*|>=1.2.11,<1.3.0a0|1.2.8']
libpng -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
sqlite -> zlib[version='>=1.2.11,<1.3.0a0']
libtiff -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
qt -> zlib[version='1.2.*|>=1.2.11,<1.3.0a0']
matplotlib -> zlib[version='>=1.2.11,<1.3.0a0']
libxml2 -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
freetype -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
ibm-wsrt-py37main-main -> zlib==1.2.11[build=*]
tk -> zlib[version='>=1.2.11,<1.3.0a0']
hdf5 -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
zstd -> zlib[version='>=1.2.11,<1.3.0a0']
libpq -> zlib[version='>=1.2.11,<1.3.0a0']
blosc -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
glib -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
grpcio -> zlib[version='>=1.2.11,<1.3.0a0']
libprotobuf -> zlib[version='1.2.11|>=1.2.11,<1.3.0a0']

Package google-pasta conflicts for:
tensorflow-base -> google-pasta[version='>=0.1.6|>=0.1.8|>=0.1.7|>=0.1.7,<1.0a0']
ibm-wsrt-py37main-main -> google-pasta==0.2.0[build=*]

Package freetype conflicts for:
pillow -> freetype[version='2.5.*|2.6.*|2.7|2.7.*|2.7|2.8.*|2.8.1|2.8.1.*|>=2.10.4,<3.0a0|>=2.9.1,<3.0a0|>=2.8.1,<2.9.0a0|>=2.10.3,<3.0a0|>=2.8,<2.9.0a0|>=2.9.1]
```

```
0']
matplotlib -> freetype[version='2.6.*|>=2.9.1,<3.0a0|>=2.8,<2.9.0a0']
qt -> freetype[version='2.7|2.7.*|>=2.10.4,<3.0a0|>=2.9.1,<3.0a0|>=2.8,<2.9.0a0']
matplotlib-base -> freetype[version='>=2.10.2,<3.0a0|>=2.10.4,<3.0a0|>=2.9.1,<3.0a0']
ibm-wsrt-py37main-main -> freetype==2.10.2[build=*]
fontconfig -> freetype[version='2.6.*|2.7|2.7.*|2.7|2.8.1|>=2.10.4,<3.0a0|>=2.9.1,<3.0a0|>=2.8.1,<2.9.0a0|>=2.9,<3.0a0|>=2.8,<2.9.0a0']

Package libglib conflicts for:
glib -> libglib[version='2.64.6|2.66.1|2.66.2|2.66.2|2.66.3|2.66.3|2.66.4',bu
ild='h0dae87d_0|h0dae87d_1|h0dae87d_0|hbe7bbb4_0|hbe7bbb4_0|h1f3bc88_1|h16430
8a_0|hdb14261_0|hf9edacf_1|h164308a_1|h164308a_2|h748fe8e_2|hf9edacf_2|hdb142
61_2|hdb14261_1|h748fe8e_1|h748fe8e_0|hf9edacf_0']
gst-plugins-base -> libglib[version='>=2.64.6,<3.0a0|>=2.66.4,<3.0a0']
gstreamer -> libglib[version='>=2.64.6,<3.0a0|>=2.66.4,<3.0a0']
dbus -> libglib[version='>=2.64.6,<3.0a0']
qt -> libglib[version='>=2.66.4,<3.0a0']

Package jpeg conflicts for:
pillow -> jpeg[version='8.*|9.*|>=9c,<10a|>=9d,<10a|>=9b,<10a|>=9b,<10a|>=9c]
lcms2 -> jpeg[version='>=9b,<10a|>=9c,<10a|>=9d,<10a|>=9d,<10a|>=9b]
qt -> jpeg[version='9.*|>=9c,<10a|>=9d,<10a|>=9b,<10a|>=9b]
libtiff -> jpeg[version='9.*|>=9b,<10a|>=9c,<10a|>=9d,<10a|>=9d]
ibm-wsrt-py37main-main -> jpeg==9b[build=*]

Package certifi conflicts for:
matplotlib-base -> certifi[version='>=2020.06.20']
tornado -> certifi
urllib3 -> certifi
ibm-wsrt-py37main-main -> certifi==2020.12.5[build=*]
requests -> certifi[version='>=2017.4.17']
setuptools -> certifi[version='>=2016.09|>=2016.9.26']

Package wheel conflicts for:
pip -> wheel
tensorboard -> wheel[version='>=0.26']
ibm-wsrt-py37main-main -> wheel==0.34.2[build=*]

Package fontconfig conflicts for:
qt -> fontconfig[version='2.12.*|>=2.13.1,<3.0a0|>=2.13.0,<3.0a0|>=2.12.6,<3.
0a0|>=2.12.4,<3.0a0|>=2.12.4,<3.0a0|>=2.12.4]
ibm-wsrt-py37main-main -> fontconfig==2.13.0[build=*]

Package futures conflicts for:
imageio -> futures
s3transfer -> futures[version='>=2.2.0,<4.0.0']
bokeh -> futures[version='>=3.0.3']
tensorboard -> futures[version='>=3.1.1']
grpcio -> futures[version='>=2.2.0']
jupyterlab -> futures
tornado -> futures

Package libxcb conflicts for:
ibm-wsrt-py37main-main -> libxcb==1.14[build=*]
gst-plugins-base -> libxcb[version='>=1.12,<2.0a0|>=1.13,<2.0a0|>=1.14,<2.0a
```

```
0']
qt -> libxcb[version='>=1.12,<2.0a0|>=1.13,<2.0a0']

Package ipython conflicts for:
ibm-wsrt-py37main-main -> ipython==7.15.0[build=*]
jupyterlab -> ipython
ipykernel -> ipython[version='>=4.0.0|>=4.0|>=5.0']
ipywidgets -> ipython[version='>=4.0.0']

Package setuptools conflicts for:
jinja2 -> setuptools
sympy -> setuptools
ipython -> setuptools[version='>=18.5']
numexpr -> setuptools
jsonschema -> setuptools
tensorboard -> setuptools[version='>=41.0.0|>=41.4']
astropy -> setuptools
joblib -> setuptools
networkx -> setuptools
matplotlib -> setuptools
protobuf -> setuptools
pip -> setuptools
wheel -> setuptools
google-auth -> setuptools[version='>=40.3.0']
ibm-wsrt-py37main-main -> setuptools==47.3.1[build=*]
plotly -> setuptools
pygments -> setuptools
pytest -> setuptools[version='>=40.0']
grpcio -> setuptools
matplotlib-base -> setuptools
bleach -> setuptools
markdown -> setuptools[version='>=36']

Package typing conflicts for:
pytorch -> typing
typing_extensions -> typing[version='>=3.6.2|>=3.7.4']

Package gstreamer conflicts for:
gst-plugins-base -> gstreamer[version='1.8.*|>=1.12.4,<1.13.0a0|>=1.12.5,<1.1
3.0a0|>=1.14.1,<2.0a0|>=1.14.4,<2.0a0|>=1.14.5,<2.0a0|>=1.18.1,<2.0a0|>=1.18.
2,<2.0a0|>=1.18.3,<2.0a0|>=1.14.0,<2.0a0|>=1.12.2,<1.13.0a0']
qt -> gstreamer[version='>=1.12.4,<1.13.0a0|>=1.12.5,<1.13.0a0|>=1.14.4,<1.1
5.0a0|>=1.18.2,<1.19.0a0|>=1.14.0,<1.15.0a0']
ibm-wsrt-py37main-main -> gstreamer==1.14.0[build=*]

Package aiohttp conflicts for:
google-auth -> aiohttp[version='>=3.6.2,<4.0.0dev']
ibm-wsrt-py37main-main -> aiohttp==3.6.2[build=*]

Package ipykernel conflicts for:
ipywidgets -> ipykernel[version='>=4.2.2|>=4.5.1']
ibm-wsrt-py37main-main -> ipykernel==5.3.0[build=*]
notebook -> ipykernel
widgetsnbextension -> ipykernel[version='>=4.5.1']

Package libblas conflicts for:
pytorch -> libblas[version='*>=3.9.0,<4.0a0|>=3.8.0,<4.0a0',build=_mk1]
```

Package pyshp conflicts for:

```
arcgis=1.6.0 -> pyshp  
ibm-wsrt-py37main-main -> pyshp==2.1.0[build=*]
```

Package libxml2 conflicts for:

```
ibm-wsrt-py37main-main -> libxml2==2.9.10[build=*]
qt -> libxml2[version='>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.8,<2.10.0a0|>=2.9.7,<2.10.0a0|']
fontconfig -> libxml2[version='2.9.*|>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.8,<2.10.0a0|>=2.9.7,<2.10.0a0|>=2.9.4,<2.10.0a0|']
libxslt -> libxml2[version='2.9.*|>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.8,<2.10.0a0|>=2.9.7,<2.10.0a0|>=2.9.4,<2.10.0a0|']
lxml -> libxml2[version='2.9.*|>=2.9.10,<2.10.0a0|>=2.9.9,<2.10.0a0|>=2.9.8,<2.10.0a0|>=2.9.7,<2.10.0a0|>=2.9.4,<2.10.0a0|']
```

Package cycler conflicts for:

```
matplotlib -> cycler[version='>=0.10']  
matplotlib-base -> cycler[version='>=0.10']  
ibm-wsrt-py37main-main -> cycler==0.10.0[build=*]
```

Package liblapack conflicts for:

Package blas conflicts for:

ibm-wsrt-py37main-main -> blas==1.0[build=*]

```
mkl-service -> blas==1.0=mkl
```

```
numexpr -> blas[version='*|*|1.0|1.0',build='openblas|openblas|mkl|mkl']
```

```
scikit-learn -> blas[version='*|*|1.1|1.0|1.0',build='openblas|openblas|mkl|mkl']
mkl_random -> blas[version='*|1.0',build=mkl]
numpy -> blas[version='*|*|1.1|1.0|1.0',build='openblas|openblas|mkl|mkl']
pytorch -> blas==1.0=mkl
scipy -> blas[version='*|*|1.0|1.1|1.0',build='mkl|openblas|openblas|openblas|mkl']
numpy-base -> blas[version='*|*|1.0|1.0',build='openblas|openblas|mkl|mkl']
mkl_fft -> blas[version='*|1.0',build=mkl]

Package icu conflicts for:
matplotlib-base -> icu[version='>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|']
libxslt -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0|']
fontconfig -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0|']
libxml2 -> icu[version='56.*|58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0|']
ibm-wsrt-py37main-main -> icu==58.2[build=*]
matplotlib -> icu[version='>=58.2,<59.0a0|']
qt -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0|']

Package astor conflicts for:
ibm-wsrt-py37main-main -> astor==0.8.0[build=*]
tensorflow-base -> astor[version='>=0.6.0|>=0.6.2|>=0.6.2,<1.0a0|']
tensorflow-estimator -> astor[version='>=0.6.0|']

Package snappy conflicts for:
ibm-wsrt-py37main-main -> snappy==1.1.8[build=*]
blosc -> snappy[version='1.1.6|>=1.1.8,<2.0a0|>=1.1.7,<2.0a0|']

Package pandocfilters conflicts for:
ibm-wsrt-py37main-main -> pandocfilters==1.4.2[build=*]
nbconvert -> pandocfilters[version='>=1.4.1|']

Package wrapt conflicts for:
tensorflow-base -> wrapt[version='>=1.11.1|>=1.11.2|>=1.12.1|>=1.11.2,<2.0a0|']
ibm-wsrt-py37main-main -> wrapt==1.12.1[build=*]
tensorflow-estimator -> wrapt[version='>=1.11.1|']

Package notebook conflicts for:
ipywidgets -> notebook
jupyterlab -> notebook[version='>=4.2|>=4.3|>=4.3.1|']
widgetsnbextension -> notebook[version='>=4.2.0|>=4.4.1|']
arcgis=1.6.0 -> notebook
jupyterlab_server -> notebook[version='>=4.2.0|']
ibm-wsrt-py37main-main -> notebook==6.0.3[build=*]

Package pandas conflicts for:
seaborn -> pandas[version='>=0.14.0|>=0.22.0|']
arcgis=1.6.0 -> pandas[version='>=0.23|']
statsmodels -> pandas[version='>=0.14|>=0.21|>=0.23|']
ibm-wsrt-py37main-main -> pandas==1.0.5[build=*]
bokeh -> pandas
```

Package absl-py conflicts for:
tensorboard -> absl-py[version='>=0.4|>=0.8.0|>=0.7']
ibm-wsrt-py37main-main -> absl-py==0.9.0[build=*]
tensorflow-estimator -> absl-py[version='>=0.1.6|>=0.7.0']
tensorflow-base -> absl-py[version='>=0.1.6|>=0.7.0|>=0.7.1|>=0.8.1|>=0.7.1,<1.0a0']

Package scipy conflicts for:
nltk -> scipy
ibm-wsrt-py37main-main -> scipy==1.5.0[build=*]
py-xgboost -> scipy
patsy -> scipy
keras-preprocessing -> scipy[version='>=0.14']
seaborn -> scipy[version='>=0.15.2|>=1.0.1']
scikit-image -> scipy[version='>=0.17|>=0.19|>=0.9']
statsmodels -> scipy[version='>=0.14|>=1.0|>=1.2']
scikit-learn -> scipy
tensorflow-base -> scipy[version='>=1.2.1|>=1.4.1']

Package docutils conflicts for:
botocore -> docutils[version='>=0.10|>=0.10,<0.15|>=0.10,<0.16']
ibm-wsrt-py37main-main -> docutils==0.15.2[build=*]

Package ca-certificates conflicts for:
openssl -> ca-certificates
ibm-wsrt-py37main-main -> ca-certificates==2020.12.8[build=*]

Package gmp conflicts for:
ibm-wsrt-py37main-main -> gmp==6.1.2[build=*]
pandoc -> gmp

Package libprotobuf conflicts for:
ibm-wsrt-py37main-main -> libprotobuf==3.12.3[build=*]
tensorflow-base -> libprotobuf[version='>=3.6.1,<3.7.0a0|>=3.8.0,<3.9.0a0|>=3.9.1,<3.10.0a0']
protobuf -> libprotobuf[version='3.10.0.*|3.10.1.*|3.11.0.*|3.11.1.*|3.11.2.*|3.11.3.*|3.11.4.*|3.12.1.*|3.12.3.*|3.12.4.*|3.13.0.*|3.13.0.1.*|3.14.0.*|>=3.14.0,<3.15.0a0|>=3.13.0.1,<3.14.0a0|>=3.13.0,<3.14.0a0|>=3.12.4,<3.13.0a0|>=3.12.3,<3.13.0a0|>=3.12.1,<3.13.0a0|>=3.11.4,<3.12.0a0|>=3.11.3,<3.12.0a0|>=3.11.2,<3.12.0a0|>=3.11.1,<3.12.0a0|>=3.11.0,<3.12.0a0|>=3.10.1,<3.11.0a0|>=3.10.0,<3.11.0a0|3.9.2.*|>=3.9.2,<3.10.0a0|3.9.1.*|>=3.9.1,<3.10.0a0|3.9.0.*|>=3.9.0,<3.10.0a0|3.8.0.*|>=3.8.0,<3.9.0a0|3.7.1.*|>=3.7.1,<3.8.0a0|3.7.0.*|>=3.7.0,<3.7.1.0a0|3.6.1.*|>=3.6.1,<3.6.2.0a0|3.6.0.*|>=3.6.0,<3.6.1.0a0|3.5.2.*|3.5.2|3.5.1.1|3.5.1|>=3.5.2,<3.6.0a0|>=3.5.1,<3.6.0a0|>=3.4.1,<3.5.0a0']

Package pathlib2 conflicts for:
pytest -> pathlib2[version='>=2.2.0']
pickleshare -> pathlib2
importlib-metadata -> pathlib2
ipython -> pathlib2
testpath -> pathlib2
importlib_metadata -> pathlib2

Package lz4-c conflicts for:
zstd -> lz4-c[version='>=1.8.1.2,<1.8.2.0a0|>=1.8.3,<1.8.4.0a0|>=1.9.2,<1.9.3.0a0|>=1.9.3,<1.9.4.0a0|>=1.9.2,<1.10.0a0']

```
ibm-wsrt-py37main-main -> lz4-c==1.9.2[build=*]
blosc -> lz4-c[version='>=1.8.1.2,<1.9.0a0|>=1.9.2,<1.10.0a0']

Package six conflicts for:
keras-preprocessing -> six[version='>=1.9.0']
tensorflow-estimator -> six[version='>=1.10.0']
python-dateutil -> six[version='>=1.5']
tensorflow-base -> six[version='>=1.10.0|>=1.12.0|>=1.12.0,<2.0a0']
bleach -> six
arcgis=1.6.0 -> six
nltk -> six
traitlets -> six
google-auth -> six[version='>=1.9.0|>=1.9.0,<2dev']
scikit-image -> six[version='>=1.4|>=1.7.3']
more-itertools -> six[version='>=1.0.0,<2.0.0']
google-pasta -> six
pytest -> six[version='>=1.10.0']
pyrsistent -> six
h5py -> six
retrying -> six[version='>=1.7.0']
plotly -> six
cryptography -> six[version='>=1.4.1']
ibm-wsrt-py37main-main -> six==1.15.0[build=*]
cycler -> six
protobuf -> six
bokeh -> six[version='>=1.5.2']
tensorboard -> six[version='>=1.10.0|>=1.12']
packaging -> six
pytables -> six
grpcio -> six[version='>=1.5.2']
patsy -> six
html5lib -> six[version='>=1.9']
jsonschema -> six[version='>=1.11.0']
mk1-service -> six
prompt-toolkit -> six[version='>=1.9.0']
mock -> six
pyopenssl -> six[version='>=1.5.2']
absl-py -> six

Package openssl conflicts for:
ibm-wsrt-py37main-main -> openssl==1.1.1i[build=*]
libpq -> openssl[version='1.0.*|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1f,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1b,<1.1.2a|>=1.0.2o,<1.0.3a|>=1.0.2m,<1.0.3a'']
qt -> openssl[version='1.0.*|1.1.*|>=1.1.1g,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.0.2p,<1.0.3a|>=1.0.2r,<1.0.3a|>=1.0.2o,<1.0.3a|>=1.0.2n,<1.0.3a'']
hdf5 -> openssl[version='>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a'']
psycopg2 -> openssl[version='1.0.*|>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1f,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.0.2n,<1.0.3a|>=1.0.2m,<1.0.3a'']
grpcio -> openssl[version='>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a'']
cryptography -> openssl[version='1.0.*|>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.1.1c,<1.1.2a|>=1.1.1b,<1.1.2a|>=1.0.2n,<1.0.3a|>=1.0.2m,<1.0.3a'']
freetds -> openssl[version='1.0.*|>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.1.1e,<1.1.2a|>=1.0.2n,<1.0.3a'']
```

```
python=3.7 -> openssl[version='>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1e,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1c,<1.1.2a|>=1.1.1b,<1.1.2a|>=1.1.1h] 
krb5 -> openssl[version='1.0.*|>=1.0.21,<1.0.3a|>=1.0.2m,<1.0.3a|>=1.0.2n,<1.0.3a|>=1.0.2o,<1.0.3a|>=1.0.2p,<1.0.3a|>=1.1.1a,<1.1.2a|>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1d,<1.1.2a|>=1.1.1h]

Package py conflicts for:
pyzmq -> py
ibm-wsrt-py37main-main -> py==1.8.2[build=*]
pytest -> py[version='>=1.4.29|>=1.4.33|>=1.5.0|>=1.8.2']

Package pcre conflicts for:
ibm-wsrt-py37main-main -> pcre==8.44[build=*]
glib -> pcre[version='>=8.41,<9.0a0|>=8.43,<9.0a0|>=8.44,<9.0a0|>=8.42,<9.0a0'|>=8.41,<9.0a0|>=8.43,<9.0a0|>=8.42,<9.0a0']

Package secretstorage conflicts for:
ibm-wsrt-py37main-main -> secretstorage==3.1.0[build=*]
keyring -> secretstorage[version='>=3|>=3.2']

Package tqdm conflicts for:
ibm-wsrt-py37main-main -> tqdm==4.47.0[build=*]
nltk -> tqdm

Package s3transfer conflicts for:
ibm-wsrt-py37main-main -> s3transfer==0.3.3[build=*]
boto3 -> s3transfer[version='>=0.1.0,<0.2.0|>=0.1.10,<0.2.0|>=0.2.0,<0.3.0|>=0.3.0,<0.4.0']

Package grpcio conflicts for:
tensorflow-estimator -> grpcio[version='>=1.8.6']
tensorboard -> grpcio[version='>=1.14|>=1.24.3|>=1.6.3']
tensorflow-base -> grpcio[version='>=1.14.1,<2.0a0|>=1.14.1|>=1.16.1|>=1.8.6']
ibm-wsrt-py37main-main -> grpcio==1.27.2[build=*]

Package scikit-learn conflicts for:
py-xgboost -> scikit-learn
nltk -> scikit-learn
ibm-wsrt-py37main-main -> scikit-learn==0.23.1[build=*]

Package click conflicts for:
nltk -> click
ibm-wsrt-py37main-main -> click==7.1.2[build=*]
google-auth-oauthlib -> click

Package ipaddress conflicts for:
notebook -> ipaddress
urllib3 -> ipaddress
cryptography -> ipaddress

Package google-auth-oauthlib conflicts for:
ibm-wsrt-py37main-main -> google-auth-oauthlib==0.4.1[build=*]
tensorboard -> google-auth-oauthlib[version='0.4.1|>=0.4.1,<0.5']
```

```
Package libgfortran-ng conflicts for:
numpy-base -> libgfortran-ng[version='>=7,<8.0a0']
ibm-wsrt-py37main-main -> libgfortran-ng==7.3.0[build=*]
hdf5 -> libgfortran-ng[version='>=7,<8.0a0|>=7.2.0,<8.0a0']
numpy -> libgfortran-ng[version='>=4.9|>=7,<8.0a0|>=7.2.0,<8.0a0']
blas -> libgfortran-ng[version='>=7,<8.0a0']
scipy -> libgfortran-ng[version='>=7,<8.0a0|>=7.2.0,<8.0a0']

Package libsodium conflicts for:
ibm-wsrt-py37main-main -> libsodium==1.0.18[build=*]
pyzmq -> libsodium[version='>=1.0.16,<1.0.17.0a0|>=1.0.17,<1.0.18.0a0|>=1.0.1
8,<1.0.19.0a0']
zeromq -> libsodium[version='>=1.0.16,<1.0.17.0a0|>=1.0.17,<1.0.18.0a0|>=1.0.
18,<1.0.19.0a0']

Package mock conflicts for:
pytables -> mock
ibm-wsrt-py37main-main -> mock==4.0.2[build=*]
tensorflow-base -> mock[version='>=2.0.0|>=2.0.0,<3.0a0']
tensorflow-estimator -> mock[version='>=2.0.0']

Package future conflicts for:
pytorch -> future
ibm-wsrt-py37main-main -> future==0.18.2[build=*]
tensorflow-base -> future

Package fastcache conflicts for:
ibm-wsrt-py37main-main -> fastcache==1.1.0[build=*]
sympy -> fastcache

Package nbformat conflicts for:
nbconvert -> nbformat[version='>=4.4']
notebook -> nbformat
ibm-wsrt-py37main-main -> nbformat==5.0.7[build=*]
ipywidgets -> nbformat[version='>=4.2.0']
plotly -> nbformat[version='>=4.2']
widgetsnbextension -> nbformat[version='>=4.2.0']

Package cffi conflicts for:
brotli -> cffi[version='>=1.0.0']
pytorch -> cffi
ibm-wsrt-py37main-main -> cffi==1.14.0[build=*]
cryptography -> cffi[version='!=1.11.3,>=1.8|>=1.8,!>=1.11.3|>=1.7|>=1.8']

Package libopenblas conflicts for:
scipy -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.
3,<1.0a0']
numpy-base -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=
0.3.3,<1.0a0']
scikit-learn -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.3,<1.0a0']
numexpr -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.
3.3,<1.0a0']
numpy -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.
3,<1.0a0']

Package lzo conflicts for:
ibm-wsrt-py37main-main -> lzo==2.10[build=*=
```

```
pytables -> lzo[version='2.*|>=2.10,<3.0a0|2.06']

Package nbconvert conflicts for:
ibm-wsrt-py37main-main -> nbconvert==5.6.1[build=*]
notebook -> nbconvert[version='<6.0']

Package yaml conflicts for:
pyyaml -> yaml[version='>=0.1.7,<0.2.0a0|>=0.2.2,<0.3.0a0|>=0.2.5,<0.3.0a0|']
ibm-wsrt-py37main-main -> yaml==0.2.5[build=*]

Package testpath conflicts for:
nbconvert -> testpath
ibm-wsrt-py37main-main -> testpath==0.4.4[build=*]

Package pyzmq conflicts for:
ipykernel -> pyzmq[version='<21']
jupyter_client -> pyzmq[version='>=13']
ibm-wsrt-py37main-main -> pyzmq==19.0.1[build=*]
notebook -> pyzmq[version='>=17']

Package keyring conflicts for:
arcgis=1.6.0 -> keyring
ibm-wsrt-py37main-main -> keyring==18.0.0[build=*]

Package attrs conflicts for:
aiohttp -> attrs[version='>=17.3.0|>=17.4.0']
ibm-wsrt-py37main-main -> attrs==19.3.0[build=*]
jsonschema -> attrs[version='>=17.4.0']
pytest -> attrs[version='>=17.2.0|>=17.4.0,<=19.1.0|>=17.4.0|>=19.2.0']

Package widgetsnbextension conflicts for:
ipywidgets -> widgetsnbextension[version='>=1.2.2|>=1.2.3|>=1.2.6|>=1.2.6,<2|
>=2.0.0|>=2.0.0,<3.0.0|>=3.0.0|>=3.0.0,<3.1.0|>=3.1.0,<3.2.0|>=3.2.0,<3.3.0|>
=3.3.0,<3.4.0|>=3.4.0,<3.5.0|>=3.5.0,<3.6.0|>=3.2.0,<4.0.0|>=3.1.0,<4.0.0|>=
3.0.0,<4.0.0|>=3.1.0,<4.0']
ibm-wsrt-py37main-main -> widgetsnbextension==3.5.1[build=*]
arcgis=1.6.0 -> widgetsnbextension[version='>=3']

Package webencodings conflicts for:
ibm-wsrt-py37main-main -> webencodings==0.5.1[build=*]
html5lib -> webencodings
bleach -> webencodings
tensorboard -> webencodings

Package dask-core conflicts for:
ibm-wsrt-py37main-main -> dask-core==2.20.0[build=*]
scikit-image -> dask-core[version='>=0.15|>=0.15.0|>=0.9.0']

Package cudatoolkit conflicts for:
tensorflow-base -> cudatoolkit[version='8.0.*|9.0.*|9.2.*|>=10.0.130,<10.1.0a
0|>=10.1.243,<10.2.0a0|>=10.1.168,<10.2.0a0|>=9.2,<9.3.0a0|>=9.0,<9.1.0a0|'
>=9.2,<9.3.0a0|9.0.*|9.2.*']
libxgboost -> cudatoolkit[version='8.0.*|>=10.0.130,<10.1.0a0|>=9.0,<9.1.0a0|'
>=9.2,<9.3.0a0|9.0.*|9.2.*']
pytorch -> cudatoolkit[version='10.0.*|10.0|10.0.*|10.1|10.1.*|10.2|10.2.*|9.
2|9.2.*|>=10.1.243,<10.2.0a0|>=9.2,<9.3.0a0|>=10.0.130,<10.1.0a0|9.2.*|>=9.0,
```

$\langle 9.1.0a0 | \rangle = 8.0, \langle 8.1.0a0 | 9.0.* | 8.0.* | 7.5.*' \rangle$

Package numpy-base conflicts for:

d6_0|py36h2f8d375_0|py36h2f8d375_0|py36hde5b4d6_0|py37hde5b4d6_0|py36h2f8d375_0|py36hde5b4d6_0|py37hde5b4d6_0|py36h2f8d375_0|py37hde5b4d6_1|py36hde5b4d6_1|py37hde5b4d6_1|py36h2f8d375_1|py27h2f8d375_1|py27hde5b4d6_0|py37hde5b4d6_0|py36h2f8d375_0|py37hde5b4d6_0|py36h2f8d375_0|py37hde5b4d6_0|py27h81de0dd_0|py36h2f8d375_0|py27h81de0dd_0|py36h2f8d375_0|py37h81de0dd_1|py27h2f8d375_1|py36h2f8d375_1|py36h2f8d375_0|py35h81de0dd_0|py27h81de0dd_0|py36h2f8d375_0|py35h81de0dd_0|py37h81de0dd_0|py27h81de0dd_0|py36h74e8950_0|py37h3dfced4_0|py35h7cdd4dd_0|py27h7cdd4dd_0|py36hde5b4d6_5|py37hde5b4d6_5|py27hde5b4d6_5|py27h2f8d375_5|py36h2f8d375_5|py38hde5b4d6_4|py38h2f8d375_4|py37h81de0dd_4|py35h81de0dd_4|py36h2f8d375_4|py27h81de0dd_4|py35h2b20989_4|py36hdbf6ddf_4|py27h2b20989_4|py27h2b20989_3|py37hdbf6ddf_3|py36h2b20989_3|py37hdbf6ddf_2|py27hdbf6ddf_2|py37hdbf6ddf_1|py36hdbf6ddf_1|py27hdbf6ddf_1|py35hdbf6ddf_0|py27hdbf6ddf_0|py36hdbf6ddf_0|py27h2b20989_0|py36h2b20989_0|py36hdbf6ddf_0|py27hdbf6ddf_0|py35h2b20989_0|py36h2b20989_0|py36h0ea5e3f_1|py38h2f8d375_12|py38hde5b4d6_12|py27hde5b4d6_12|py36h2f8d375_11|py36h2f8d375_10|py36h81de0dd_10|py36h74e8950_10|py27h74e8950_9|py37h81de0dd_9|py36h81de0dd_9|py27h3dfced4_9|py27h7cdd4dd_9|py35h7cdd4dd_9|py36h7cdd4dd_9|py37h2b20989_8|py36h2b20989_8|py36hdbf6ddf_8|py36hdbf6ddf_7|py36h2b20989_7|py27h2b20989_7|py37h2b20989_7|py35h2b20989_7|py35hdbf6ddf_7|py36h2b20989_6|py27h2b20989_6']

Package zstd conflicts for:

libtiff -> zstd[version='>=1.3.3,<1.3.4.0a0|>=1.4.0,<1.5.0.0a0|>=1.4.3,<1.5.0.0a0|>=1.4.4,<1.5.0.0a0|>=1.4.5,<1.5.0a0|>=1.4|>=1.4.4,<1.5.0a0|>=1.3.7,<1.3.8.0a0']
blosc -> zstd[version='>=1.3.7,<1.3.8.0a0|>=1.4.4,<1.5.0a0|>=1.4.5,<1.4.6.0a0']
ibm-wsrt-py37main-main -> zstd==1.4.4[build=*]

Package pyrsistent conflicts for:

ibm-wsrt-py37main-main -> pyrsistent==0.16.0[build=*]
jsonschema -> pyrsistent[version='>=0.14.0']

Package mistune conflicts for:

nbconvert -> mistune[version='>0.6|>=0.7.4|>=0.8.1']
ibm-wsrt-py37main-main -> mistune==0.8.4[build=*]

Package ipywidgets conflicts for:

ibm-wsrt-py37main-main -> ipywidgets==7.5.1[build=*]
arcgis=1.6.0 -> ipywidgets[version='>=7']

Package markupsafe conflicts for:

jinja2 -> markupsafe[version='>=0.23']
ibm-wsrt-py37main-main -> markupsafe==1.1.1[build=*]

Package brotliipy conflicts for:

ibm-wsrt-py37main-main -> brotliipy==0.7.0[build=*]
urllib3 -> brotliipy[version='>=0.6.0']

Package werkzeug conflicts for:

ibm-wsrt-py37main-main -> werkzeug==1.0.1[build=*]
tensorboard -> werkzeug[version='>=0.11.10|>=0.11.15|>=0.14']
tensorflow-base -> werkzeug[version='>=0.14.1,<1.0a0']

```
Package libgfortran4 conflicts for:
blas -> libgfortran4[version='>=7.5.0']
scipy -> libgfortran4[version='>=7.5.0']
hdf5 -> libgfortran4[version='>=7.5.0']
libgfortran-ng -> libgfortran4=7.5.0

Package matplotlib conflicts for:
nltk -> matplotlib
arcgis=1.6.0 -> matplotlib
seaborn -> matplotlib[version='>=1.4.3|>=2.1.2']
scikit-image -> matplotlib[version='>=1.1|>=1.3.1|>=2.0.0']
ibm-wsrt-py37main-main -> matplotlib==3.2.2[build=*]
bokeh -> matplotlib

Package patsy conflicts for:
ibm-wsrt-py37main-main -> patsy==0.5.1[build=*]
statsmodels -> patsy[version='>=0.4.0|>=0.5.1']
seaborn -> patsy

Package decorator conflicts for:
plotly -> decorator[version='>=4.0.6']
ibm-wsrt-py37main-main -> decorator==4.4.2[build=*]
ipython -> decorator
networkx -> decorator[version='>=3.4.0|>=4.3.0|>=4.1.0']
traitlets -> decorator

Package glib conflicts for:
qt -> glib[version='>=2.53.6,<3.0a0|>=2.56.1,<3.0a0|>=2.56.2,<3.0a0|>=2.58.3,
<3.0a0']
dbus -> glib[version='>=2.53.6,<3.0a0|>=2.56.1,<3.0a0|>=2.56.2,<3.0a0|>=2.58.
3,<3.0a0|>=2.63.1,<3.0a0']
gst-plugins-base -> glib[version='>=2.53.6,<3.0a0|>=2.56.1,<3.0a0|>=2.58.2,<
2.59.0a0|>=2.58.3,<3.0a0|>=2.66.1,<3.0a0']
ibm-wsrt-py37main-main -> glib==2.65.0[build=*]
gstreamer -> glib[version='2.51.*|>=2.55.0,<2.56.0a0|>=2.56.2,<2.57.0a0|>=2.5
8.2,<2.59.0a0|>=2.58.3,<3.0a0|>=2.66.1,<3.0a0|>=2.56.1,<3.0a0|>=2.53.6,<3.0a
0']
keyring -> jeepney[version='>=0.4.2']

Package functools32 conflicts for:
matplotlib -> functools32
jsonschema -> functools32
tensorflow-base -> functools32[version='>=3.2.3.2']
matplotlib-base -> functools32

Package tk conflicts for:
krb5 -> tk[version='8.6.*|>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.7.0a0
|>=8.6.7,<8.7.0a0']
ibm-wsrt-py37main-main -> tk==8.6.10[build=*]
matplotlib -> tk[version='8.5.*|8.6.*|>=8.6.8,<8.7.0a0|>=8.6.7,<8.7.0a0']
pillow -> tk[version='8.6.*|>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.7.0
a0|>=8.6.7,<8.7.0a0']
python=3.7 -> tk[version='>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.7.0a0
```

```
|>=8.6.7,<8.7.0a0']  
matplotlib-base -> tk[version='>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<8.  
7.0a0']  
  
Package kiwisolver conflicts for:  
ibm-wsrt-py37main-main -> kiwisolver==1.2.0[build=*]  
matplotlib-base -> kiwisolver[version='>=1.0.1']  
matplotlib -> kiwisolver  
  
Package readline conflicts for:  
libpq -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']  
ibm-wsrt-py37main-main -> readline==8.0[build=*]  
python=3.7 -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']  
sqlite -> readline[version='6.2.*|7.0|7.0.*|>=7.0,<8.0a0|>=8.0,<9.0a0']  
freetds -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']  
  
Package mkl-service conflicts for:  
mkl_fft -> mkl-service[version='>=2,<3.0a0']  
scikit-learn -> mkl-service[version='>=2,<3.0a0']  
ibm-wsrt-py37main-main -> mkl-service==2.3.0[build=*]  
mkl_random -> mkl-service[version='>=2,<3.0a0']  
pytorch -> mkl-service[version='>=2,<3.0a0']  
numpy-base -> mkl-service[version='>=2,<3.0a0']  
numpy -> mkl-service[version='>=2,<3.0a0']  
scipy -> mkl-service[version='>=2,<3.0a0']  
numexpr -> mkl-service[version='>=2,<3.0a0']  
  
Package botocore conflicts for:  
ibm-wsrt-py37main-main -> botocore==1.16.11[build=*]  
boto3 -> botocore[version='>=1.10.0,<1.11.0|>=1.10.1,<1.11.0|>=1.10.10,<1.11.  
0|>=1.10.11,<1.11.0|>=1.10.12,<1.11.0|>=1.10.13,<1.11.0|>=1.10.14,<1.11.0|>=  
1.10.15,<1.11.0|>=1.10.16,<1.11.0|>=1.10.17,<1.11.0|>=1.10.18,<1.11.0|>=1.10.  
19,<1.11.0|>=1.10.20,<1.11.0|>=1.10.21,<1.11.0|>=1.10.22,<1.11.0|>=1.10.23,<  
1.11.0|>=1.10.24,<1.11.0|>=1.10.25,<1.11.0|>=1.10.26,<1.11.0|>=1.10.27,<1.11.  
0|>=1.10.28,<1.11.0|>=1.10.29,<1.11.0|>=1.10.30,<1.11.0|>=1.10.31,<1.11.0|>=  
1.10.32,<1.11.0|>=1.10.33,<1.11.0|>=1.10.34,<1.11.0|>=1.10.35,<1.11.0|>=1.10.  
36,<1.11.0|>=1.10.37,<1.11.0|>=1.10.38,<1.11.0|>=1.10.39,<1.11.0|>=1.10.40,<  
1.11.0|>=1.10.41,<1.11.0|>=1.10.42,<1.11.0|>=1.10.43,<1.11.0|>=1.10.44,<1.11.  
0|>=1.10.45,<1.11.0|>=1.10.46,<1.11.0|>=1.10.47,<1.11.0|>=1.10.48,<1.11.0|>=  
1.10.49,<1.11.0|>=1.10.50,<1.11.0|>=1.10.51,<1.11.0|>=1.10.52,<1.11.0|>=1.10.  
53,<1.11.0|>=1.10.54,<1.11.0|>=1.10.55,<1.11.0|>=1.10.56,<1.11.0|>=1.10.57,<  
1.11.0|>=1.10.58,<1.11.0|>=1.10.59,<1.11.0|>=1.10.60,<1.11.0|>=1.10.61,<1.11.  
0|>=1.10.62,<1.11.0|>=1.10.63,<1.11.0|>=1.10.64,<1.11.0|>=1.10.65,<1.11.0|>=  
1.10.66,<1.11.0|>=1.10.67,<1.11.0|>=1.10.68,<1.11.0|>=1.10.69,<1.11.0|>=1.10.  
70,<1.11.0|>=1.10.71,<1.11.0|>=1.10.72,<1.11.0|>=1.10.73,<1.11.0|>=1.10.74,<  
1.11.0|>=1.10.75,<1.11.0|>=1.10.76,<1.11.0|>=1.10.77,<1.11.0|>=1.10.78,<1.11.  
0|>=1.10.79,<1.11.0|>=1.10.80,<1.11.0|>=1.10.81,<1.11.0|>=1.10.82,<1.11.0|>=  
1.10.83,<1.11.0|>=1.10.84,<1.11.0|>=1.11.0,<1.12.0|>=1.11.1,<1.12.0|>=1.11.2,  
<1.12.0|>=1.11.3,<1.12.0|>=1.11.4,<1.12.0|>=1.11.5,<1.12.0|>=1.11.6,<1.12.0|>=  
1.11.7,<1.12.0|>=1.11.8,<1.12.0|>=1.11.9,<1.12.0|>=1.12.0,<1.13.0|>=1.12.1,<  
1.13.0|>=1.12.10,<1.13.0|>=1.12.100,<1.13.0|>=1.12.101,<1.13.0|>=1.12.102,<1.  
13.0|>=1.12.103,<1.13.0|>=1.12.104,<1.13.0|>=1.12.105,<1.13.0|>=1.12.106,<1.1  
3.0|>=1.12.107,<1.13.0|>=1.12.108,<1.13.0|>=1.12.109,<1.13.0|>=1.12.110,<1.1  
3.0|>=1.12.111,<1.13.0|>=1.12.112,<1.13.0|>=1.12.113,<1.13.0|>=1.12.114,<1.1  
3.0|>=1.12.115,<1.13.0|>=1.12.116,<1.13.0|>=1.12.117,<1.13.0|>=1.12.118,<1.1  
3.0|>=1.12.119,<1.13.0|>=1.12.120,<1.13.0|>=1.12.121,<1.13.0|>=1.12.122,<1.1  
3.0|>=1.12.123,<1.13.0|>=1.12.124,<1.13.0|>=1.12.125,<1.13.0|>=1.12.126,<1.1
```



```
3.0|>=1.12.38,<1.13.0|>=1.12.37,<1.13.0|>=1.12.36,<1.13.0|>=1.12.35,<1.13.0|>=1.12.34,<1.13.0|>=1.12.33,<1.13.0|>=1.12.32,<1.13.0|>=1.12.31,<1.13.0|>=1.12.30,<1.13.0|>=1.12.29,<1.13.0|>=1.12.28,<1.13.0|>=1.12.27,<1.13.0|>=1.12.26,<1.13.0|>=1.12.25,<1.13.0|>=1.12.24,<1.13.0|>=1.12.23,<1.13.0|>=1.12.22,<1.13.0|>=1.12.21,<1.13.0|>=1.12.20,<1.13.0|>=1.12.19,<1.13.0|>=1.12.18,<1.13.0|>=1.12.17,<1.13.0|>=1.12.16,<1.13.0|>=1.12.15,<1.13.0|>=1.12.14,<1.13.0|>=1.12.13,<1.13.0|>=1.12.12,<1.13.0|>=1.12.11,<1.13.0|>=1.12.9,<1.13.0|>=1.12.8,<1.13.0|>=1.12.7,<1.13.0|>=1.12.6,<1.13.0|>=1.12.5,<1.13.0|>=1.12.4,<1.13.0|>=1.12.3,<1.13.0|>=1.12.2,<1.13.0|>=1.10.9,<1.11.0|>=1.10.8,<1.11.0|>=1.10.7,<1.11.0|>=1.10.6,<1.11.0|>=1.10.5,<1.11.0|>=1.10.4,<1.11.0|>=1.10.3,<1.11.0|>=1.10.2,<1.11.0|>=1.9.23,<1.10.0|>=1.9.22,<1.10.0|>=1.9.21,<1.10.0|>=1.9.20,<1.10.0|>=1.9.19,<1.10.0|>=1.9.18,<1.10.0|>=1.9.17,<1.10.0|>=1.9.16,<1.10.0|>=1.9.15,<1.10.0|>=1.9.14,<1.10.0|>=1.9.13,<1.10.0|>=1.9.12,<1.10.0|>=1.9.11,<1.10.0|>=1.9.10,<1.10.0|>=1.9.9,<1.10.0|>=1.9.8,<1.10.0|>=1.9.7,<1.10.0|>=1.9.6,<1.10.0|>=1.9.5,<1.10.0|>=1.9.4,<1.10.0|>=1.9.3,<1.10.0|>=1.9.2,<1.10.0|>=1.9.1,<1.10.0|>=1.9.0,<1.10.0|>=1.8.50,<1.9.0|>=1.8.49,<1.9.0|>=1.8.48,<1.9.0|>=1.8.47,<1.9.0|>=1.8.46,<1.9.0|>=1.8.45,<1.9.0|>=1.8.44,<1.9.0|>=1.8.43,<1.9.0|>=1.8.42,<1.9.0|>=1.8.41,<1.9.0|>=1.8.40,<1.9.0|>=1.8.39,<1.9.0|>=1.8.38,<1.9.0|>=1.8.37,<1.9.0|>=1.8.36,<1.9.0|>=1.8.32,<1.9.0|>=1.8.28,<1.9.0|>=1.5.0,<1.6.0|>=1.4.1,<1.5.0|>=1.8.0,<1.9.0|>=1.7.0,<1.8.0' ]  
s3transfer -> botocore[version='>=1.12.36,<2.0.0|>=1.12.36,<2.0a.0|>=1.3.0,<2.0.0'|]  
ibm-wsrt-py37main-main -> expat==2.2.9[build=*]
```

Package expat conflicts for:

```
dbus -> expat[version='>=2.2.10,<3.0a0|>=2.2.5,<2.3.0a0|>=2.2.9,<2.3.0a0|>=2.2.6,<3.0a0|>=2.2.5,<3.0a0'|]  
qt -> expat[version='>=2.2.5,<2.3.0a0|>=2.2.9,<2.3.0a0|>=2.2.6,<3.0a0|>=2.2.5,<3.0a0'|]  
ibm-wsrt-py37main-main -> expat==2.2.9[build=*]
```

Package sqlite conflicts for:

```
python=3.7 -> sqlite[version='>=3.24.0,<4.0a0|>=3.25.1,<4.0a0|>=3.25.2,<4.0a0|>=3.25.3,<4.0a0|>=3.26.0,<4.0a0|>=3.28.0,<4.0a0|>=3.30.1,<4.0a0|>=3.32.3,<4.0a0|>=3.33.0,<4.0a0|>=3.34.0,<4.0a0|>=3.31.1,<4.0a0|>=3.29.0,<4.0a0|>=3.27.2,<4.0a0'|]  
qt -> sqlite[version='>=3.20.1,<4.0a0|>=3.22.0,<4.0a0|>=3.23.1,<4.0a0|>=3.24.0,<4.0a0|>=3.25.3,<4.0a0|>=3.26.0,<4.0a0|>=3.28.0,<4.0a0|>=3.29.0,<4.0a0|>=3.30.1,<4.0a0|>=3.33.0,<4.0a0|>=3.34.0,<4.0a0'|]  
ibm-wsrt-py37main-main -> sqlite==3.33.0[build=*]
```

Package dbus conflicts for:

```
pyqt -> dbus[version='>=1.10.22,<2.0a0|>=1.12.2,<2.0a0|>=1.13.12,<2.0a0|>=1.13.6,<2.0a0|>=1.13.2,<2.0a0'|]  
qt -> dbus[version='>=1.10.22,<2.0a0|>=1.12.2,<2.0a0|>=1.13.0,<2.0a0|>=1.13.6,<2.0a0|>=1.13.2,<2.0a0'|]  
ibm-wsrt-py37main-main -> dbus==1.13.16[build=*]  
secretstorage -> dbus
```

Package pyparsing conflicts for:

```
packaging -> pyparsing[version='>=2.0.2']  
nltk -> pyparsing  
matplotlib -> pyparsing  
matplotlib-base -> pyparsing[version='>=2.0.3,!>=2.0.4,!>=2.1.2,!>=2.1.6']  
ibm-wsrt-py37main-main -> pyparsing==2.4.7[build=*]
```

Package lcms2 conflicts for:

```
pillow -> lcms2[version='>=2.11,<3.0a0']
```

```
ibm-wsrt-py37main-main -> lcms2==2.11[build=*]

Package importlib_metadata conflicts for:
ibm-wsrt-py37main-main -> importlib_metadata==1.6.1[build=*]
pytest -> importlib_metadata[version='>=0.12']
pluggy -> importlib_metadata[version='>=0.12|>=0.9']
jsonschema -> importlib_metadata
keyring -> importlib_metadata[version='>=1']

Package _py-xgboost-mutex conflicts for:
py-xgboost -> _py-xgboost-mutex[version='1.0|2.0',build='gpu_0|cpu_0']
ibm-wsrt-py37main-main -> _py-xgboost-mutex==2.0=cpu_0

Package multidict conflicts for:
yarl -> multidict[version='>=2.0|>=4.0']
aiohttp -> multidict[version='>=2.1.4|>=4.0,<5.0|>=4.5,<5.0|>=4.5,<7.0|>=3.0.
0']
ibm-wsrt-py37main-main -> multidict==4.7.6[build=*]

Package toolz conflicts for:
ibm-wsrt-py37main-main -> toolz==0.10.0[build=*]
scikit-image -> toolz[version='>=0.7.3|>=0.7.4']
cytoolz -> toolz[version='>=0.10.0|>=0.8.0']

Package importlib-metadata conflicts for:
importlib_metadata -> importlib-metadata[version='>=1.1.3,<1.1.4.0a0|>=1.5.0,
<1.5.1.0a0|>=1.5.2,<1.5.3.0a0|>=1.6.0,<1.6.1.0a0|>=1.6.1,<1.6.2.0a0|>=1.7.0,<
1.7.1.0a0|>=2.0.0,<2.0.1.0a0|>=3.0.0,<3.0.1.0a0|>=3.1.0,<3.1.1.0a0|>=3.1.1,<
3.1.2.0a0|>=3.3.0,<3.3.1.0a0|>=3.4.0,<3.4.1.0a0']
keyring -> importlib-metadata
pytest -> importlib-metadata[version='>=0.12']
ibm-wsrt-py37main-main -> importlib-metadata==1.6.1[build=*]
markdown -> importlib-metadata

Package regex conflicts for:
ibm-wsrt-py37main-main -> regex==2020.6.8[build=*]
nltk -> regex

Package gettext conflicts for:
gstreamer -> gettext[version='>=0.19.8.1,<1.0a0']
gst-plugins-base -> gettext[version='>=0.19.8.1,<1.0a0']
glib -> gettext[version='>=0.19.8.1,<1.0a0']

Package protobuf conflicts for:
ibm-wsrt-py37main-main -> protobuf==3.12.3[build=*]
tensorboard -> protobuf[version='>=3.3.0|>=3.4.0|>=3.6.0|>=3.8.0|>=3.6.1']
tensorflow-estimator -> protobuf[version='>=3.6.1']
tensorflow-base -> protobuf[version='>=3.3.0|>=3.4.0|>=3.6.0|>=3.6.1,<4.0a0|>
=3.6.1|>=3.8.0|>=3.9.2']
grpcio -> protobuf[version='>=3.5.0']

Package jsonschema conflicts for:
jupyterlab_server -> jsonschema[version='>=3.0.1']
ibm-wsrt-py37main-main -> jsonschema==3.2.0[build=*]
nbformat -> jsonschema[version='>=2.0,!>=2.5.0|>=2.4,!>=2.5.0']

Package subprocess32 conflicts for:
```

```
matplotlib -> subprocess32
matplotlib-base -> subprocess32
jupyterlab -> subprocess32

Package python-dateutil conflicts for:
botocore -> python-dateutil[version='>=2.1,<2.7.0|>=2.1,<2.8.1|>=2.1,<3.0.0']
bokeh -> python-dateutil[version='>=2.1']
matplotlib -> python-dateutil
pandas -> python-dateutil[version='>=2.5.*|>=2.6.1|>=2.7.3']
jupyter_client -> python-dateutil[version='>=2.1']
matplotlib-base -> python-dateutil[version='>=2.1']
ibm-wsrt-py37main-main -> python-dateutil==2.8.1[build=*]

Package pytz conflicts for:
ibm-wsrt-py37main-main -> pytz==2020.1[build=*]
plotly -> pytz
pandas -> pytz[version='>=2017.2']
matplotlib-base -> pytz
matplotlib -> pytz

Package statsmodels conflicts for:
ibm-wsrt-py37main-main -> statsmodels==0.11.1[build=*]
seaborn -> statsmodels[version='>=0.5.0|>=0.8.0']

Package termcolor conflicts for:
tensorflow-base -> termcolor[version='>=1.1.0|>=1.1.0,<2.0a0']
ibm-wsrt-py37main-main -> termcolor==1.1.0[build=*]
tensorflow-estimator -> termcolor[version='>=1.1.0']

Package yarl conflicts for:
aiohttp -> yarl[version='>=0.10.0,<0.11|>=1.0,<1.6.0|>=1.0,<2.0|>=0.11']
ibm-wsrt-py37main-main -> yarl==1.5.1[build=*]

Package openblas conflicts for:
scikit-learn -> openblas[version='0.2.18.*|0.2.18|0.2.18.*|0.2.19|0.2.19.*|0.
2.20|0.2.20.*|>=0.2.20,<0.2.21.0a0|>=0.3.3,<0.3.4.0a0']
numpy -> openblas[version='0.2.18.*|0.2.18|0.2.18.*|0.2.19|0.2.19.*|0.2.20|0.
2.20.*|>=0.2.20,<0.2.21.0a0|>=0.3.3,<0.3.4.0a0|>=0.2.15']
blas -> openblas
scipy -> openblas[version='0.2.18.*|0.2.18|0.2.18.*|0.2.19|0.2.19.*|0.2.20|0.
2.20.*|>=0.2.20,<0.2.21.0a0|>=0.3.3,<0.3.4.0a0']

Package blinker conflicts for:
oauthlib -> blinker
ibm-wsrt-py37main-main -> blinker==1.4[build=*]

Package retrying conflicts for:
plotly -> retrying[version='>=1.3.3']
ibm-wsrt-py37main-main -> retrying==1.3.3[build=*]

Package h5py conflicts for:
keras-applications -> h5py
ibm-wsrt-py37main-main -> h5py==2.10.0[build=*]
tensorflow-base -> h5py[version='>=2.10.0,<2.11.0a0']

Package backports.weakref conflicts for:
tensorflow-estimator -> backports.weakref[version='>=1.0rc1']
```

```
tensorflow-base -> backports.weakref[version='>=1.0.0inf.1,<2.0a0|>=1.0|>=1.0
rc1']

Package jmespath conflicts for:
boto3 -> jmespath[version='>=0.7.1,<1.0.0']
botocore -> jmespath[version='>=0.7.1,<1.0.0']
ibm-wsrt-py37main-main -> jmespath==0.9.4[build=*]

Package libffi conflicts for:
ibm-wsrt-py37main-main -> libffi==3.3[build=*]
glib -> libffi[version='<3.3.0.a0|>=3.0.0|>=3.2.1,<3.3.0a0|>=3.3,<3.4.0a0|>=
3.2.1,<3.3a0']
gstreamer -> libffi[version='>=3.2.1,<3.3.0a0|>=3.2.1,<3.3a0']
python=3.7 -> libffi[version='>=3.2.1,<3.3.0a0|>=3.3,<3.4.0a0|>=3.2.1,<3.3a
0']
cffi -> libffi[version='<3.3.0.a0|>=3.2.1,<3.3.0a0|>=3.3,<3.4.0a0|>=3.2.1,<3.
3a0']

Package olefile conflicts for:
pillow -> olefile
ibm-wsrt-py37main-main -> olefile==0.46[build=*]

Package packaging conflicts for:
bleach -> packaging
pytest -> packaging
wheel -> packaging[version='>=20.2']
ibm-wsrt-py37main-main -> packaging==20.4[build=*]
jupyterlab_server -> packaging
jupyterlab -> packaging
bokeh -> packaging[version='>=16.8']

Package tensorflow-estimator conflicts for:
ibm-wsrt-py37main-main -> tensorflow-estimator==2.1.0[build=*]
tensorflow-base -> tensorflow-estimator[version='>=1.13.0,<1.14.0a0|>=1.14.0r
c0,<1.15.0a0']

Package keras-applications conflicts for:
tensorflow-base -> keras-applications[version='>=1.0.5|>=1.0.6|>=1.0.8|>=1.0.
8,<2.0a0']
ibm-wsrt-py37main-main -> keras-applications==1.0.8[build=*]

Package gast conflicts for:
tensorflow-base -> gast[version='>=0.2.0|>=0.3.3,<0.3.4.0a0|>=0.2.2,<0.2.3.0a
0']
tensorflow-estimator -> gast[version='>=0.2.0']
ibm-wsrt-py37main-main -> gast==0.2.2[build=*]

Package _openmp_mutex conflicts for:
pytorch -> _openmp_mutex[version='>=4.5']
mkl -> _openmp_mutex[version='*>=4.5',build=_llvm]
libgcc-ng -> _openmp_mutex[version='>=4.5']
blas -> _openmp_mutex[version='*>=4.5',build=_llvm]

Package bzip2 conflicts for:
ibm-wsrt-py37main-main -> bzip2==1.0.8[build=*]
python=3.7 -> bzip2[version='>=1.0.6,<2.0a0|>=1.0.8,<2.0a0']
pytables -> bzip2[version='1.0.*|>=1.0.6,<2.0a0|>=1.0.8,<2.0a0']
```



```
83_0|py36hfd891ef_1|py36he7580a8_1|py38h250f245_1|py36h250f245_2|py38h250f245_0|py36h250f245_1|py37h250f245_1|py38h250f245_1|py36h250f245_0|py38h250f245_0|py37h250f245_0|py36h250f245_0|py37h250f245_0|py38h250f245_2|py37h250f245_2|py37he7580a8_1|py37hfd891ef_0|py36hfd891ef_0|py37hfd891ef_1|py37h5f35d83_0|py37h5f35d83_1|py37h167e16e_1002|py36h167e16e_1001|py38h250f245_2|py37h250f245_2|py27h250f245_2|py27h250f245_1|py37h250f245_1|py36hfd891ef_0|py27hfd891ef_0|py37hfd891ef_0|py27h60b886d_1|py27h250f245_1|py36hef1b27d_0|py37hef1b27d_0|py38hef1b27d_0|py38hef1b27d_1|py37hef1b27d_1']  
scikit-image -> matplotlib-base[version='>=2.0.0']  
seaborn -> matplotlib-base[version='>=2.1.2']  
ibm-wsrt-py37main-main -> matplotlib-base==3.2.2[build=*]
```

Package pyasn1 conflicts for:

```
ibm-wsrt-py37main-main -> pyasn1==0.4.8[build=*]  
pyasn1-modules -> pyasn1[version='0.3.3|>=0.3.4,<0.4.0|>=0.4.1,<0.5.0|>=0.4.6,<0.5.0|>=0.1.8']  
google-auth -> pyasn1[version='>=0.1.7,<1dev']  
rsa -> pyasn1[version='>=0.1.3']
```

Package pluggy conflicts for:

```
ibm-wsrt-py37main-main -> pluggy==0.13.1[build=*]  
pytest -> pluggy[version='>=0.12,<1.0|>=0.12,<1.0.0a1|>=0.9,!>=0.10,<1.0|>=0.9|>=0.7|>=0.5,<0.7']
```

Package requests conflicts for:

```
plotly -> requests  
tensorboard -> requests[version='>=2.21.0,<3']  
jupyterlab_server -> requests  
requests-oauthlib -> requests[version='>=2.0.0']  
nltk -> requests  
bokeh -> requests[version='>=1.2.3']  
ibm-wsrt-py37main-main -> requests==2.24.0[build=*]
```

Package beautifulsoup4 conflicts for:

```
ibm-wsrt-py37main-main -> beautifulsoup4==4.9.1[build=*]  
soupsieve -> beautifulsoup4
```

Package libiconv conflicts for:

```
unixodbc -> libiconv[version='>=1.15,<1.17.0a0|>=1.16,<1.17.0a0']  
libxml2 -> libiconv[version='1.15|>=1.15,<1.17.0a0|>=1.16,<1.17.0a0']  
fontconfig -> libiconv[version='1.15|>=1.15,<1.17.0a0']  
glib -> libiconv[version='1.15|>=1.15,<1.17.0a0|>=1.16,<1.17.0a0']
```

Package pickleshare conflicts for:

```
ibm-wsrt-py37main-main -> pickleshare==0.7.5[build=*]  
ipython -> pickleshare
```

Package send2trash conflicts for:

```
ibm-wsrt-py37main-main -> send2trash==1.5.0[build=*]  
notebook -> send2trash[version='>=1.5.0']
```

Package ncurses conflicts for:

```
python=3.7 -> ncurses[version='>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0|>=6.1,<7.0a0']  
ibm-wsrt-py37main-main -> ncurses==6.2[build=*]  
sqlite -> ncurses[version='5.9|5.9.*|>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0']
```

```
readline -> ncurses[version='5.9.*|>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0|>=6.1,<7.0a0|>=6.0,<7.0a0|6.0.*']  
libedit -> ncurses[version='5.9|>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0|>=6.1,<7.0a0|6.0.*']  
  
Package libgcc conflicts for:  
scipy -> libgcc  
pytorch -> libgcc  
pyqt -> libgcc  
  
Package mkl_random conflicts for:  
numpy -> mkl_random[version='>=1.0.2,<2.0a0']  
ibm-wsrt-py37main-main -> mkl_random==1.1.1[build=*]  
  
Package libcurl conflicts for:  
hdf5 -> libcurl[version='>=7.71.1,<8.0a0']  
tensorflow-base -> libcurl[version='>=7.64.1,<8.0a0|>=7.71.1,<8.0a0']  
  
Package more-itertools conflicts for:  
ibm-wsrt-py37main-main -> more-itertools==8.4.0[build=*]  
zipp -> more-itertools  
pytest -> more-itertools[version='>=4.0,<6.0|>=4.0|>=4.0.0']  
  
Package opt_einsum conflicts for:  
ibm-wsrt-py37main-main -> opt_einsum==3.1.0[build=*]  
tensorflow-base -> opt_einsum[version='>=2.3.2,<3.0a0|>=2.3.2|>=3.1.0|>=3.1.0,<4.0a0']  
  
Package libpq conflicts for:  
psycopg2 -> libpq[version='>=10.3,<11.0a0|>=10.5,<11.0a0|>=10.6,<11.0a0|>=11.2,<12.0a0|>=11.3,<12.0a0|>=11.5,<12.0a0|>=12.1,<13.0a0|>=12.2,<13.0a0|>=12.3,<13.0a0|>=11.1,<12.0a0|>=9.6.6']  
ibm-wsrt-py37main-main -> libpq==12.2[build=*]  
qt -> libpq[version='>=12.3,<13.0a0']  
  
Package markdown conflicts for:  
tensorboard -> markdown[version='>=2.6.11|>=2.6.8']  
tensorflow-base -> markdown[version='>=2.6.11']  
ibm-wsrt-py37main-main -> markdown==3.1.1[build=*]  
  
Package pandoc conflicts for:  
nbconvert -> pandoc[version='>=1.12.1|>=1.12.1,<2.0.0']  
ibm-wsrt-py37main-main -> pandoc==2.9.2.1[build=*]  
  
Package pycparser conflicts for:  
cffi -> pycparser  
ibm-wsrt-py37main-main -> pycparser==2.20[build=*]  
  
Package urllib3 conflicts for:  
ibm-wsrt-py37main-main -> urllib3==1.25.9[build=*]  
botocore -> urllib3[version='>=1.20,<1.24|>=1.20,<1.25|>=1.20,<1.26|>=1.25.4,<1.26|>=1.25.4,<1.27']  
requests -> urllib3[version='>=1.21.1,<1.22|>=1.21.1,<1.23|>=1.21.1,<1.24|>=1.21.1,<1.25|>=1.21.1,<1.26,!>=1.25.0,!>=1.25.1|>=1.21.1,<1.27']  
  
Package krb5 conflicts for:  
ibm-wsrt-py37main-main -> krb5==1.17.1[build=*]
```

```
freetds -> krb5[version='>=1.18.2,<1.19.0a0']
libpq -> krb5[version='>=1.14.2,<1.15.0a0|>=1.16,<1.17.0a0|>=1.16.1,<1.17.0a0
|>=1.16.2,<1.17.0a0|>=1.16.3,<1.17.0a0|>=1.16.4,<1.17.0a0|>=1.17.1,<1.18.0a
0']]

Package intel-openmp conflicts for:
ibm-wsrt-py37main-main -> intel-openmp==2020.1[build=*]
mkl -> intel-openmp

Package pytest conflicts for:
ibm-wsrt-py37main-main -> pytest==5.4.3[build=*]
astropy -> pytest[version='<3.7|<4']

Package libedit conflicts for:
unixodbc -> libedit[version='>=3.1.20170329,<3.2.0a0|>=3.1.20191231,<3.2.0a
0']
sqlite -> libedit[version='>=3.1.20170329,<3.2.0a0|>=3.1.20181209,<3.2.0a0|>=
3.1.20191231,<3.2.0a0']
ibm-wsrt-py37main-main -> libedit==3.1.20191231[build=*]
krb5 -> libedit[version='>=3.1,<4.0a0|>=3.1.20170329,<3.2.0a0|>=3.1.20170329,
<4.0a0|>=3.1.20191231,<3.2.0a0|>=3.1.20191231,<4.0a0|>=3.1.20181209,<3.2.0a0|
>=3.1.20181209,<4.0a0']

Package libxslt conflicts for:
lxml -> libxslt[version='>=1.1.32,<2.0a0|>=1.1.33,<2.0a0|>=1.1.34,<2.0a0']
ibm-wsrt-py37main-main -> libxslt==1.1.34[build=*]

Package tensorboard conflicts for:
tensorflow-base -> tensorboard[version='>=1.13.0,<1.14.0a0|>=1.14.0,<1.15.0a
0']
ibm-wsrt-py37main-main -> tensorboard==2.1.0[build=*]

Package wcwidth conflicts for:
pytest -> wcwidth
ibm-wsrt-py37main-main -> wcwidth==0.2.4[build=*]
prompt-toolkit -> wcwidth

Package backports.functools_lru_cache conflicts for:
wcwidth -> backports.functools_lru_cache
soupsieve -> backports.functools_lru_cache
matplotlib -> backports.functools_lru_cache
matplotlib-base -> backports.functools_lru_cache

Package jupyterlab conflicts for:
ibm-wsrt-py37main-main -> jupyterlab==2.2.6[build=*]
arcgis=1.6.0 -> jupyterlab

Package requests-oauthlib conflicts for:
google-auth-oauthlib -> requests-oauthlib[version='>=0.7.0|>=0.7.0,<1dev']
ibm-wsrt-py37main-main -> requests-oauthlib==1.3.0[build=*]

Package gst-plugins-base conflicts for:
ibm-wsrt-py37main-main -> gst-plugins-base==1.14.0[build=*]
qt -> gst-plugins-base[version='>=1.12.2,<1.13.0a0|>=1.12.4,<1.13.0a0|>=1.12.
5,<1.13.0a0|>=1.14.4,<1.15.0a0|>=1.14.0,<1.15.0a0']

Package cloudpickle conflicts for:
```

```
ibm-wsrt-py37main-main -> cloudpickle==1.5.0[build=*]
scikit-image -> cloudpickle[version='>=0.2.1']

Package jupyter_client conflicts for:
ibm-wsrt-py37main-main -> jupyter_client==6.1.3[build=*]
nbconvert -> jupyter_client[version='>=4.2']
ipykernel -> jupyter_client
notebook -> jupyter_client[version='>=5.2.0|>=5.3.1|>=5.3.4']

Package pip conflicts for:
python=3.7 -> pip
ibm-wsrt-py37main-main -> pip==20.1.1[build=*]

Package cytoolz conflicts for:
scikit-image -> cytoolz[version='>=0.7.3']
ibm-wsrt-py37main-main -> cytoolz==0.10.1[build=*]

Package ninja conflicts for:
ibm-wsrt-py37main-main -> ninja==1.9.0[build=*]
pytorch -> ninja

Package llvm-openmp conflicts for:
blas -> llvm-openmp[version='>=10.0.0|>=11.0.0|>=9.0.1']
mk1 -> llvm-openmp[version='>=10.0.0|>=11.0.0|>=9.0.1']

Package gmpy2 conflicts for:
sympy -> gmpy2[version='>=2.0.8']
mpmath -> gmpy2

Package pywavelets conflicts for:
scikit-image -> pywavelets[version='>=0.4.0']
ibm-wsrt-py37main-main -> pywavelets==1.1.1[build=*]

Package jupyter_server conflicts for:
jupyterlab_server -> jupyter_server[version='>=1.1.0,<2.0.0']
jupyterlab -> jupyter_server[version='>=1.1.0,<2.0.0']

Package mpmath conflicts for:
ibm-wsrt-py37main-main -> mpmath==1.1.0[build=*]
sympy -> mpmath[version='>=0.19']

Package typing-extensions conflicts for:
aiohttp -> typing-extensions[version='>=3.6.5']
yarl -> typing-extensions[version='>=3.7.4']

Package pyasn1-modules conflicts for:
google-auth -> pyasn1-modules[version='>=0.0.5,<1dev|>=0.2.1']
ibm-wsrt-py37main-main -> pyasn1-modules==0.2.8[build=*]

Package libtiff conflicts for:
lcms2 -> libtiff[version='>=4.0.10,<5.0a0|>=4.1.0,<5.0a0']
ibm-wsrt-py37main-main -> libtiff==4.1.0[build=*]
qt -> libtiff[version='4.0.*|>=4.0.10,<5.0a0']
pillow -> libtiff[version='4.*|4.0.*|>=4.0.10,<5.0a0|>=4.1.0,<5.0a0|>=4.0.9,<5.0a0|>=4.0.8,<4.0.10|>=4.0.3,<4.0.8|4.0.6|>=4.0.8,<5.0a0']

Package cryptography conflicts for:
```


Package zeromq conflicts for:
ibm-wsrt-py37main-main -> zeromq==4.3.2[build=*]
pyzmq -> zeromq[version='4.1.*|4.2.1|']>=4.2.3,<4.3|>=4.2.5,<4.3|>=4.2.5,<4.3.0
a0|>=4.3.1,<4.4.0a0|>=4.3.2,<4.4.0a0|>=4.3.3,<4.4.0a0|>=4.2.5,<4.2.6.0a0|4.2.
*']

Package contextlib2 conflicts for:
importlib-metadata -> contextlib2
importlib_metadata -> contextlib2

Package threadpoolctl conflicts for:
scikit-learn -> threadpoolctl
ibm-wsrt-py37main-main -> threadpoolctl==2.1.0[build=*]

Package rsa conflicts for:
google-auth -> rsa[version='>=3.1.4,<4.1|>=3.1.4,<5|>=3.1.4,<4dev']
ibm-wsrt-py37main-main -> rsa==4.6[build=*]

Package parso conflicts for:
jedi -> parso[version='0.1.0|>=0.1.0,<0.2|>=0.2.0,<0.8.0|>=0.3.0,<0.8.0|>=0.
5.0,<0.8.0|>=0.5.2,<0.8.0|>=0.7.0,<0.8.0|>=0.8.0,<0.9.0|>=0.7.0|>=0.5.2|>=0.
5.0|>=0.3.0|>=0.2.0']
ibm-wsrt-py37main-main -> parso==0.7.0[build=*]

Package cudnn conflicts for:
tensorflow-base -> cudnn[version='>=7.0.0,<=8.0a0|>=7.1.0,<=8.0a0|>=7.2.0,<=8.0a0|>=7.3.1,<8.0a0|>=7.6,<8.0a0|>=7.6.5,<8.0a0|>=7.6.0,<8.0a0|>=7.6.4,<8.0a0|>=7.1.2,<=8.0a0|>=7.0.5,<=8.0a0']
pytorch -> cudnn[version='5.1.*|6.0.*|>=7.0.0,<=8.0a0|>=7.0.5,<=8.0a0|>=7.1.
0,<=8.0a0|>=7.1.3,<8.0a0|>=7.3.0,<=8.0a0|>=7.6,<8.0a0|>=7.6.5,<8.0a0|>=7.6.4,
<8.0a0|>=7.3.1,<8.0a0|>=7.1.2,<=8.0a0']

Package imageio conflicts for:
ibm-wsrt-py37main-main -> imageio==2.9.0[build=*]
scikit-image -> imageio[version='>=2.1.0|>=2.3.0']

Package pyjwt conflicts for:
ibm-wsrt-py37main-main -> pyjwt==1.7.1[build=*]
oauthlib -> pyjwt[version='>=1.0.0']

Package bleach conflicts for:
ibm-wsrt-py37main-main -> bleach==3.1.5[build=*]
nbconvert -> bleach
tensorboard -> bleach[version='1.5.0|>=1.5.0,<1.5.1.0a0']

Package pysocks conflicts for:
urllib3 -> pysocks[version='>=1.5.6,<2.0,!>=1.5.7']
ibm-wsrt-py37main-main -> pysocks==1.7.1[build=*]

Package unixodbc conflicts for:
ibm-wsrt-py37main-main -> unixodbc==2.3.7[build=*]
freetds -> unixodbc[version='>=2.3.5,<2.4.0a0|>=2.3.7,<2.4.0a0|>=2.3.9,<2.4.0
a0|>=2.3.6,<2.4.0a0']
pyodbc -> unixodbc[version='2.3.4.*|2.3.4|>=2.3.5,<2.4.0a0|>=2.3.7,<2.4.0a0|>
=2.3.9,<2.4.0a0|>=2.3.6,<2.4.0a0']

Package keras conflicts for:

```
keras-preprocessing -> keras[version='>=2.1.6']
keras-applications -> keras[version='>=2.1.6']

Package backcall conflicts for:
ibm-wsrt-py37main-main -> backcall==0.2.0[build=*]
ipython -> backcall

Package _pytorch_select conflicts for:
pytorch -> _pytorch_select[version='0.1|0.2']
ibm-wsrt-py37main-main -> _pytorch_select==0.1[build=*]

Package freetds conflicts for:
ibm-wsrt-py37main-main -> freetds==1.00.97[build=*]
pymssql -> freetds[version='>=1.0.91,<2.0a0|>=1.0.97,<2.0a0']

Package terminado conflicts for:
ibm-wsrt-py37main-main -> terminado==0.8.3[build=*]
notebook -> terminado[version='>=0.3.3|>=0.8.1|>=0.8.3']

Package html5lib conflicts for:
tensorboard -> html5lib[version='0.9999999|>=0.9999999,<0.10000000.0a0']
bleach -> html5lib[version='>=0.999,!=0.9999,!=0.99999,<0.9999999|>=0.999999
99|>=0.9999999pre,!=1.0b1,!=1.0b2,!=1.0b3,!=1.0b4,!=1.0b5,!=1.0b6,!=1.0b7,!=
1.0b8']
ibm-wsrt-py37main-main -> html5lib==1.1.0[build=*]

Package async-timeout conflicts for:
ibm-wsrt-py37main-main -> async-timeout==3.0.1[build=*]
aiohttp -> async-timeout[version='<4.0,>=3.0|>=3.0,<4.0|>=1.2,<3.0|>=1.2.0']

Package oauthlib conflicts for:
ibm-wsrt-py37main-main -> oauthlib==3.1.0[build=*]
requests-oauthlib -> oauthlib[version='>=0.6.2|>=3.0.0|>=2.1.0,<3.0.0']

Package c-ares conflicts for:
grpcio -> c-ares[version='>=1.14.0,<2.0a0|>=1.15.0,<2.0a0|>=1.16.1,<2.0a0|>=
1.17.1,<2.0a0']
ibm-wsrt-py37main-main -> c-ares==1.15.0[build=*]

Package defusedxml conflicts for:
nbconvert -> defusedxml
ibm-wsrt-py37main-main -> defusedxml==0.6.0[build=*]

Package chardet conflicts for:
requests -> chardet[version='>=3.0.2,<3.1.0|>=3.0.2,<4|>=3.0.2,<5']
ibm-wsrt-py37main-main -> chardet==3.0.4[build=*]
aiohttp -> chardet[version='>=2.0,<4.0']
Note that strict channel priority may have removed packages required for sati
sfiability.
```

Collecting folium

```
  Downloading folium-0.12.1-py2.py3-none-any.whl (94 kB)
  [██████████] 94 kB 5.6 MB/s eta 0:00:01
Requirement already satisfied: numpy in /opt/conda/envs/Python-3.7-main/lib/p
yhton3.7/site-packages (from folium) (1.18.5)
Collecting branca>=0.3.0
  Downloading branca-0.4.2-py3-none-any.whl (24 kB)
```

```
Requirement already satisfied: jinja2>=2.9 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from folium) (2.11.2)
Requirement already satisfied: requests in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from folium) (2.24.0)
Requirement already satisfied: MarkupSafe>=0.23 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from jinja2>=2.9->folium) (1.1.1)
Requirement already satisfied: certifi>=2017.4.17 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from requests->folium) (2020.12.5)
Requirement already satisfied: urllib3!=1.25.0,!>=1.25.1,<1.26,>=1.21.1 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from requests->folium) (1.25.9)
Requirement already satisfied: idna<3,>=2.5 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from requests->folium) (2.9)
Requirement already satisfied: chardet<4,>=3.0.2 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from requests->folium) (3.0.4)
Installing collected packages: branca, folium
Successfully installed branca-0.4.2 folium-0.12.1
All libraries imported.
```

```
In [2]: # check if all packages are installed
import pkg_resources

for package in ['pandas', 'numpy', 'folium', 'geopy', 'matplotlib', 'lxml', 'requests', 'json', 'json_normalize']:
    try:
        dist = pkg_resources.get_distribution(package)
        print('>> {} ({}) is installed.'.format(dist.key, dist.version))
    except pkg_resources.DistributionNotFound:
        print('?? {} is NOT installed.'.format(package))

>> pandas (1.0.5) is installed.
>> numpy (1.18.5) is installed.
>> folium (0.12.1) is installed.
>> geopy (2.0.0) is installed.
>> matplotlib (3.2.2) is installed.
>> lxml (4.5.1) is installed.
>> requests (2.24.0) is installed.
?? json is NOT installed.
?? json_normalize is NOT installed.
```

1b: Import and cleanup data

```
In [3]: # import list of all cities in CA with income data
df1 = pd.read_html('https://en.wikipedia.org/wiki/List_of_California_locations_by_income')[2]

# import list of cities with crime stats
df2 = pd.read_html('https://en.wikipedia.org/wiki/California_locations_by_crime_rate')[2]
```

```
In [4]: # Make sure data is imported correctly
df1.head()
```

Out[4]:

	Place	County/ies[note 2]	Population[1]	Populationdensity[1][2][note 1]	Per capita income[3]	Median household income[6]	Median family income[5]
0	Acalanes Ridge	Contra Costa	1226	2659.4	\$62,314	\$160,000	\$190,104
1	Acampo	San Joaquin	776	827.3	\$36,756	\$141,250	17
2	Acton	Los Angeles	6956	177.2	\$39,131	\$92,245	\$99,448
3	Adelanto	San Bernardino	31773	567.3	\$9,998	\$35,262	\$35,531
4	Adin	Modoc	215	62.6	\$15,452	\$29,583	\$60,085

```
In [5]: df2.head()
```

Out[5]:

	City/Agency	County	Population[5]	Populationdensity[5][3][note 2]	Violent crimes[5]	Violent crime rateper 1,000 persons	Property crimes[5]	Pro
0	Adelanto	San Bernardino	31213	557.3	189	6.06	790	pe
1	Agoura Hills	Los Angeles	20767	2664.8	17	0.82	234	
2	Alameda	Alameda	77048	7378.7	145	1.88	1723	
3	Albany	Alameda	19350	10822.1	31	1.60	478	
4	Alhambra	Los Angeles	84931	11129.7	168	1.98	1743	

```
In [6]: # rename column names for easy reference
df1.columns = ['City', 'County', 'Population', 'PopDensity', 'PerCapitaIncome', 'MedianIncome', 'FamilyIncome']
df2.columns = ['City', 'County', 'Population', 'PopDensity', 'VCrimes', 'VCrimesPer1000', 'PCrimes', 'PCrimesPer1000']
```

```
In [7]: # we're only interested in cities in LA county, so remove rows for all other counties
df1.drop(df1[df1['County'] != 'Los Angeles'].index, inplace = True)
df2.drop(df2[df2['County'] != 'Los Angeles'].index, inplace = True)
```

```
In [8]: # convert column MedianIncome data type from object to string
df1["MedianIncome"] = df1["MedianIncome"].astype(str)
```

```
# remove nonnumeric characters
df1['MedianIncome'] = df1['MedianIncome'].str.replace('$', '')
df1['MedianIncome'] = df1['MedianIncome'].str.replace(',', '')
```

```
In [9]: # now convert back to float
df1['MedianIncome'] = df1['MedianIncome'].astype(float)

In [10]: # we're only interested in cities with median income greater than $50,000
df1.drop(df1[df1['MedianIncome'] <=50000].index, inplace = True)

# we will analyze cities with less than 5 violent crimes per 1000 population
df2.drop(df2[df2['VCrimesPer1000'] > 5].index, inplace = True)

In [11]: # remove all columns not required for our analysis
df2.drop(['County', 'Population', 'PopDensity'], axis=1, inplace=True)

In [12]: # Let's make sure our source data looks good
df1.head()
```

Out[12]:

		City	County	Population	PopDensity	PerCapitaIncome	MedianIncome	FamilyIncome
2		Acton	Los Angeles	6956	177.2	\$39,131	92245.0	\$99,448
5		Agoura Hills	Los Angeles	20630	2647.2	\$50,242	107268.0	\$118,673
6		Agua Dulce	Los Angeles	2898	126.8	\$37,538	88864.0	\$102,989
15		Alhambra	Los Angeles	84400	11060.1	\$24,971	53195.0	\$57,056
22		Alondra Park	Los Angeles	8833	7979.2	\$21,583	55263.0	\$57,944

In [13]: df2.head()

Out[13]:

		City	VCrimes	VCrimesPer1000	PCrimes	PCrimesPer1000
1		Agoura Hills	17	0.82	234	11.27
4		Alhambra	168	1.98	1743	20.52
13		Arcadia	60	1.04	1159	20.00
16		Artesia	49	2.92	294	17.51
24		Azusa	165	3.42	1065	22.08

1c: Merge the 2 wikipedia imports to create one dataframe with cities, income and crime stats

```
In [14]: df1.set_index('City')
df2.set_index('City')
df = pd.merge(left=df1, right=df2, how='left', left_on='City', right_on='City')
df.head()
```

Out[14]:

	City	County	Population	PopDensity	PerCapitalIncome	MedianIncome	FamilyIncome	V
0	Acton	Los Angeles	6956	177.2	\$39,131	92245.0	\$99,448	
1	Agoura Hills	Los Angeles	20630	2647.2	\$50,242	107268.0	\$118,673	
2	Agua Dulce	Los Angeles	2898	126.8	\$37,538	88864.0	\$102,989	
3	Alhambra	Los Angeles	84400	11060.1	\$24,971	53195.0	\$57,056	
4	Alondra Park	Los Angeles	8833	7979.2	\$21,583	55263.0	\$57,944	



```
In [15]: # remove rows having columns with no data
df.dropna(inplace=True)
```

Use GeoLocator to find coordinates

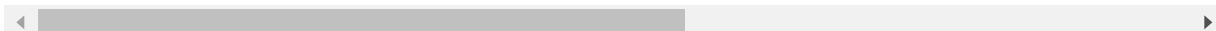
```
In [16]: from geopy.geocoders import Nominatim # module to convert an address into latitude and longitude values
geolocator = Nominatim(user_agent="HTTP")

df['Major_Dist_Coord']= df['City'].apply(geolocator.geocode).apply(lambda x: (x.latitude, x.longitude))
df[['Latitude', 'Longitude']] = df['Major_Dist_Coord'].apply(pd.Series)

df.drop(['Major_Dist_Coord'], axis=1, inplace=True)
df.head()
```

Out[16]:

	City	County	Population	PopDensity	PerCapitalIncome	MedianIncome	FamilyIncome
1	Agoura Hills	Los Angeles	20630	2647.2	\$50,242	107268.0	\$118,673
3	Alhambra	Los Angeles	84400	11060.1	\$24,971	53195.0	\$57,056
6	Arcadia	Los Angeles	57251	5240.4	\$38,582	80147.0	\$93,635
7	Artesia	Los Angeles	16698	10301.0	\$21,688	60544.0	\$62,485
10	Azusa	Los Angeles	47420	4910.9	\$18,159	52087.0	\$57,131



Section 2: Build clusters of neighborhoods in LA county

2a: Get geographical coordinates of Los angeles as the center of our map

```
In [17]: address = 'Los Angeles'

geolocator = Nominatim(user_agent="Los_Angeles")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print('The geographical coordinate of Los Angeles are {}, {}'.format(latitude, longitude))
```

The geographical coordinate of Los Angeles are 34.0536909, -118.242766.

2b: Use Folium to visualize cities in LA county

```
In [18]: # create map of Cologne using latitude and longitude
LA = folium.Map(location=[latitude, longitude], zoom_start=11)

# add markers to the map
for lat, lng, label in zip(df['Latitude'], df['Longitude'], df['City']):
    label = folium.Popup(label, parse_html=True)
    folium.CircleMarker(
        [lat, lng],
        radius=5,
        popup=label,
        color='blue',
        fill=True,
        fill_color='#3186cc',
        fill_opacity=0.7,
        parse_html=False).add_to(LA)

LA
```

Out[18]: Make this Notebook Trusted to load map: File -> Trust Notebook

2c: Use Foursquare API to explore and segment the neighborhoods

```
In [19]: # @hidden_cell
Client_Id      = 'MMYM2FFTDBU21QQNVLMOCTSR4TGIN0GUD1Q5F43UH22BID54'
Client_Secret   = 'QZHCEF2EZTBU0EYQQTIX0QFSOK0S04Y05R3NJEFMAKPKJ01R'
Code           = 'N2KJIIPC5ZMCAHTTUFUKCTKGSUI4UICQAVZR3UKDPNE3AQIR#_=_
Access_Token    = ':"MXKFKVDY40K4LVQTVK5LV53UBUGILTKGJJANECCRRCF3WTX4U'
Version = '20180605'
```

```
In [20]: # Show top 25 venues in a radius of 10 miles (approx 16000 meters)
LIMIT = 50

radius = 32000

url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secre
t={}&v={}&ll={},{}&radius={}&limit={}'.format(
    Client_Id,
    Client_Secret,
    Version,
    lat,
    lng,
    radius,
    LIMIT)
url
```

```
Out[20]: 'https://api.foursquare.com/v2/venues/explore?&client_id=MMYM2FFTDBU21QNVLMO
CTSR4TGIN0GUD1Q5F43UH22BID54&client_secret=QZHCEF2EZTBU0EYGQTIX0QFSOK0S04Y05R
3NJEFMAKPKJ01R&v=20180605&ll=33.9708782,-118.0308396&radius=32000&limit=50'
```

```
In [21]: results = requests.get(url).json()
```

```
In [22]: # function that extracts the category of the venue
def get_category_type(row):
    try:
        categories_list = row['categories']
    except:
        categories_list = row['venue.categories']

    if len(categories_list) == 0:
        return None
    else:
        return categories_list[0]['name']
```

```
In [23]: venues = results['response']['groups'][0]['items']

nearby_venues = json_normalize(venues) # flatten JSON

# filter columns
filtered_columns = ['venue.name', 'venue.categories', 'venue.location.lat', 'venue.location.lng']
nearby_venues = nearby_venues.loc[:, filtered_columns]

# filter the category for each row
nearby_venues['venue.categories'] = nearby_venues.apply(get_category_type, axis=1)

# clean columns
nearby_venues.columns = [col.split(".")[-1] for col in nearby_venues.columns]

nearby_venues.head()

/opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages/ipykernel/_main_.py:3: FutureWarning: pandas.io.json.json_normalize is deprecated, use pandas.json_normalize instead
    app.launch_new_instance()
```

Out[23]:

	name	categories	lat	lng
0	Liquor Mart	Liquor Store	33.961412	-118.029345
1	Pizzamania	Pizza Place	33.937762	-118.042097
2	Costco	Warehouse Store	33.933055	-117.969551
3	Northgate Gonzalez Markets	Market	33.940191	-117.960459
4	In-N-Out Burger	Fast Food Restaurant	33.936074	-118.124260

```
In [24]: print('{} venues were returned by Foursquare.'.format(nearby_venues.shape[0]))
```

50 venues were returned by Foursquare.

```
In [25]: print ('{} unique categories in LA County.'.format(nearby_venues['categories'].value_counts().shape[0]))
```

32 unique categories in LA County.

```
In [26]: print (nearby_venues['categories'].value_counts()[0:25])
```

Fast Food Restaurant	5
Pizza Place	3
Liquor Store	3
Garden	3
Grocery Store	2
Theme Park	2
Sandwich Place	2
Bakery	2
Park	2
Brewery	2
Coffee Shop	2
Art Gallery	2
Climbing Gym	1
Sporting Goods Shop	1
Big Box Store	1
Cuban Restaurant	1
Wine Shop	1
Mexican Restaurant	1
Market	1
Frozen Yogurt Shop	1
Clothing Store	1
Museum	1
Italian Restaurant	1
Trail	1
Home Service	1

Name: categories, dtype: int64

2d: Explore the neighbourhoods around LA

```
In [27]: def getNearbyVenues(names, latitudes, longitudes, radius=3000, LIMIT=1000):

    venues_list=[]
    for name, lat, lng in zip(names, latitudes, longitudes):
        print(name)

        # create the API request URL
        url = 'https://api.foursquare.com/v2/venues/explore?&client_id={}&client_secret={}&v={}&ll={},{}&radius={}&limit={}'.format(
            Client_Id,
            Client_Secret,
            Version,
            lat,
            lng,
            radius,
            LIMIT)

        # make the GET request
        results = requests.get(url).json()["response"]["groups"][0]["items"]

        # return only relevant information for each nearby venue
        venues_list.append([
            name,
            lat,
            lng,
            v['venue']['name'],
            v['venue']['location']['lat'],
            v['venue']['location']['lng'],
            v['venue']['categories'][0]['name']) for v in results])

    nearby_venues = pd.DataFrame([item for venue_list in venues_list for item in venue_list])
    nearby_venues.columns = ['Neighborhood',
                            'Neighborhood Latitude',
                            'Neighborhood Longitude',
                            'Venue',
                            'Venue Latitude',
                            'Venue Longitude',
                            'Venue Category']

    return(nearby_venues)
```

```
In [29]: LA_venues = getNearbyVenues(names=df['City'],
                                    latitudes=df['Latitude'],
                                    longitudes=df['Longitude']
                                   )
LA_venues.head()
```

Agoura Hills
Alhambra
Arcadia
Artesia
Azusa
Baldwin Park
Beverly Hills
Bradbury
Burbank
Calabasas
Carson
Cerritos
Claremont
Covina
Culver City
Diamond Bar
Downey
Duarte
El Segundo
Glendale
Glendora
Hermosa Beach
Hidden Hills
La Cañada Flintridge
La Habra Heights
Lakewood
La Mirada
La Puente
La Verne
Lomita
Long Beach
Malibu
Manhattan Beach
Monrovia
Monterey Park
Norwalk
Palos Verdes Estates
Pasadena
Pico Rivera
Rancho Palos Verdes
Redondo Beach
Rolling Hills
Rolling Hills Estates
San Dimas
San Fernando
San Gabriel
San Marino
Santa Clarita
Santa Fe Springs
Santa Monica
Sierra Madre
Signal Hill
South Pasadena
Temple City
Torrance
Walnut
West Covina

Westlake Village
Whittier

Out[29]:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
0	Agoura Hills	34.14791	-118.765704	El Pollo Loco	34.144732	-118.761088	Fast Food Restaurant
1	Agoura Hills	34.14791	-118.765704	Italia Deli & Bakery	34.153099	-118.759037	Deli / Bodega
2	Agoura Hills	34.14791	-118.765704	Trader Joe's	34.146241	-118.756609	Grocery Store
3	Agoura Hills	34.14791	-118.765704	Tifa Chocolate & Gelato	34.144586	-118.754595	Dessert Shop
4	Agoura Hills	34.14791	-118.765704	Wood Ranch BBQ & Grill	34.144711	-118.755350	BBQ Joint

In [30]: LA_venues.shape

Out[30]: (5142, 7)

In [31]: *# Create a Data-Frame out of it to concentrate only on Restaurants*
LA_Venues_only_restaurant = LA_venues[LA_venues['Venue Category'].str.contains('Restaurant')].reset_index(drop=True)
LA_Venues_only_restaurant.index = np.arange(1, len(LA_Venues_only_restaurant) +1)

```
In [32]: print (LA_Venues_only_restaurant[ 'Venue Category' ].value_counts())
```

Mexican Restaurant	249
American Restaurant	146
Fast Food Restaurant	143
Italian Restaurant	120
Chinese Restaurant	93
Sushi Restaurant	81
Seafood Restaurant	79
Japanese Restaurant	65
Restaurant	52
Asian Restaurant	51
Thai Restaurant	50
Mediterranean Restaurant	45
Vietnamese Restaurant	40
Indian Restaurant	37
Korean Restaurant	32
New American Restaurant	32
Vegetarian / Vegan Restaurant	27
Spanish Restaurant	19
Tapas Restaurant	14
Middle Eastern Restaurant	12
French Restaurant	11
Greek Restaurant	11
Dumpling Restaurant	9
Peruvian Restaurant	9
Latin American Restaurant	8
Tex-Mex Restaurant	8
Hawaiian Restaurant	7
Ramen Restaurant	6
Filipino Restaurant	6
Szechuan Restaurant	6
South American Restaurant	5
Argentinian Restaurant	5
Cuban Restaurant	5
Indonesian Restaurant	4
Hotpot Restaurant	4
Taiwanese Restaurant	4
Southern / Soul Food Restaurant	2
Japanese Curry Restaurant	2
Indian Chinese Restaurant	2
Andhra Restaurant	2
Cajun / Creole Restaurant	2
Caribbean Restaurant	2
Dim Sum Restaurant	2
Australian Restaurant	2
Persian Restaurant	1
Moroccan Restaurant	1
Gluten-free Restaurant	1
Cambodian Restaurant	1
Cantonese Restaurant	1
Empanada Restaurant	1
Brazilian Restaurant	1
Modern European Restaurant	1
Comfort Food Restaurant	1
Scandinavian Restaurant	1
Malay Restaurant	1

Name: Venue Category, dtype: int64

```
In [33]: print('There are {} unique categories.'.format(len(LA_Venues_only_restaurant['Venue Category'].unique())))
```

There are 55 unique categories.

```
In [34]: # create a dataframe of top 10 categories  
LA_Venues_Top15 = LA_Venues_only_restaurant['Venue Category'].value_counts()[0:15].to_frame(name='frequency')  
LA_Venues_Top15 = LA_Venues_Top15.reset_index()  
LA_Venues_Top15.rename(index=str, columns={"index": "Venue_Category", "frequency": "Frequency"}, inplace=True)  
LA_Venues_Top15
```

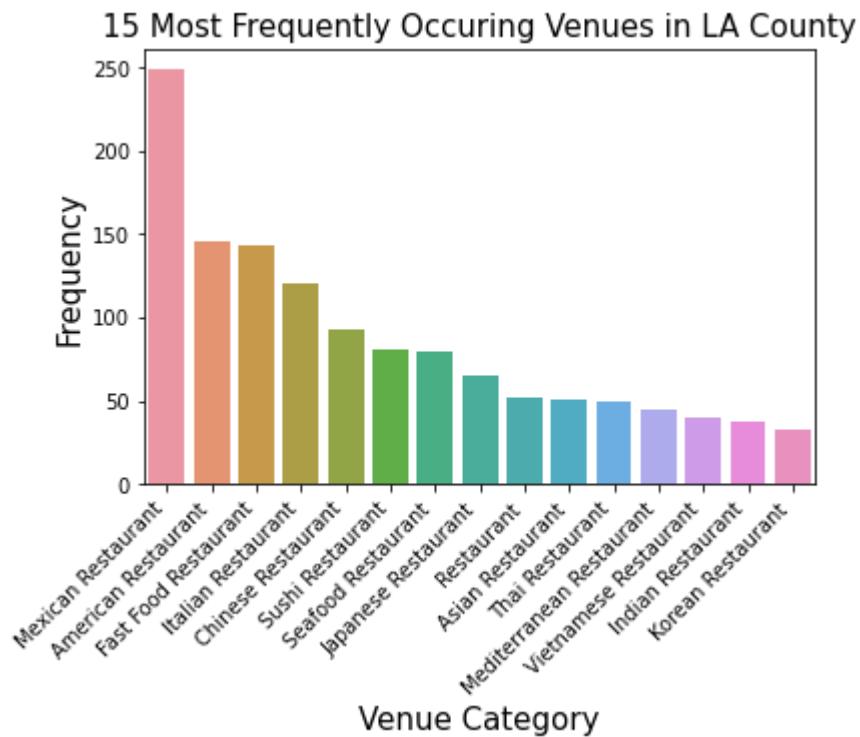
Out[34]:

	Venue_Category	Frequency
0	Mexican Restaurant	249
1	American Restaurant	146
2	Fast Food Restaurant	143
3	Italian Restaurant	120
4	Chinese Restaurant	93
5	Sushi Restaurant	81
6	Seafood Restaurant	79
7	Japanese Restaurant	65
8	Restaurant	52
9	Asian Restaurant	51
10	Thai Restaurant	50
11	Mediterranean Restaurant	45
12	Vietnamese Restaurant	40
13	Indian Restaurant	37
14	Korean Restaurant	32

```
In [35]: import seaborn as sns
from matplotlib import pyplot as plt

s=sns.barplot(x="Venue_Category", y="Frequency", data=LA_Venues_Top15)
s.set_xticklabels(s.get_xticklabels(), rotation=45, horizontalalignment='right')

plt.title('15 Most Frequently Occuring Venues in LA County', fontsize=15)
plt.xlabel("Venue Category", fontsize=15)
plt.ylabel ("Frequency", fontsize=15)
plt.savefig("Most_Freq_Venues1.png", dpi=300)
fig = plt.figure(figsize=(18,7))
plt.show()
```



<Figure size 1296x504 with 0 Axes>

```
In [36]: # F: Size of the dataframe that results.
```

```
In [37]: print ("Shape of the Data-Frame with Venue Category only Restaurant: ", LA_Venues_only_restaurant.shape)
LA_Venues_only_restaurant.head(75)
```

Shape of the Data-Frame with Venue Category only Restaurant: (1522, 7)

Out[37]:

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
1	Agoura Hills	34.147910	-118.765704	El Pollo Loco	34.144732	-118.761088	Fast Food Restaurant
2	Agoura Hills	34.147910	-118.765704	Boar Dough Tasting Room	34.144237	-118.756564	Restaurant
3	Agoura Hills	34.147910	-118.765704	Lal Mirch	34.147822	-118.760536	Indian Restaurant
4	Agoura Hills	34.147910	-118.765704	Sushi Raku	34.148230	-118.760163	Japanese Restaurant
5	Agoura Hills	34.147910	-118.765704	Maral Persian Restaurant	34.156443	-118.756894	Middle Eastern Restaurant
6	Agoura Hills	34.147910	-118.765704	Islands Restaurant	34.143774	-118.762049	American Restaurant
7	Agoura Hills	34.147910	-118.765704	Exotic Thai	34.144164	-118.756991	Thai Restaurant
8	Agoura Hills	34.147910	-118.765704	Plata Cantina	34.144446	-118.754959	Mexican Restaurant
9	Agoura Hills	34.147910	-118.765704	Cafe Bizou	34.148410	-118.782587	French Restaurant
10	Agoura Hills	34.147910	-118.765704	Tikka Grill	34.155368	-118.794463	Indian Restaurant
11	Agoura Hills	34.147910	-118.765704	Taco Bell	34.151700	-118.758719	Fast Food Restaurant
12	Agoura Hills	34.147910	-118.765704	The Gallery Restaurant	34.147804	-118.796153	New American Restaurant
13	Agoura Hills	34.147910	-118.765704	Maria's Italian Kitchen	34.154779	-118.758380	Italian Restaurant
14	Agoura Hills	34.147910	-118.765704	Yamato Japanese Restaurant	34.143856	-118.751357	Japanese Restaurant
15	Agoura Hills	34.147910	-118.765704	Grissini Ristorante	34.145815	-118.778534	Italian Restaurant
16	Agoura Hills	34.147910	-118.765704	Adobe Cantina	34.143010	-118.758330	Mexican Restaurant
17	Agoura Hills	34.147910	-118.765704	Los Agaves	34.147107	-118.794818	Mexican Restaurant
18	Agoura Hills	34.147910	-118.765704	In-N-Out Burger	34.147635	-118.797532	Fast Food Restaurant
19	Agoura Hills	34.147910	-118.765704	Mediterranean Pita Grill	34.155398	-118.794515	Mediterranean Restaurant
20	Agoura Hills	34.147910	-118.765704	Mandarin Lotus	34.144848	-118.762822	Chinese Restaurant
21	Agoura Hills	34.147910	-118.765704	Sushi & Wasabi	34.157302	-118.757308	Japanese Restaurant
22	Agoura Hills	34.147910	-118.765704	The Latigo Kid	34.152475	-118.758487	Mexican Restaurant

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
23	Agoura Hills	34.147910	-118.765704	Chipotle Mexican Grill	34.153718	-118.796540	Mexican Restaurant
24	Agoura Hills	34.147910	-118.765704	Pick Up Stix	34.148860	-118.794449	American Restaurant
25	Agoura Hills	34.147910	-118.765704	eLoong Dumplings	34.155981	-118.793204	Irish Chinese Restaurant
26	Agoura Hills	34.147910	-118.765704	Q Sushi	34.147267	-118.795424	Seafood Restaurant
27	Agoura Hills	34.147910	-118.765704	Wendy's	34.155109	-118.793478	Fast Food Restaurant
28	Agoura Hills	34.147910	-118.765704	Anarbagh Indian Restaurant	34.155728	-118.793307	Irish Restaurant
29	Agoura Hills	34.147910	-118.765704	Green Onion Chinese	34.155032	-118.788447	Chinese Restaurant
30	Agoura Hills	34.147910	-118.765704	Panda Express	34.153788	-118.796398	Chinese Restaurant
31	Agoura Hills	34.147910	-118.765704	101 North Eatery & Bar	34.147992	-118.795653	Restaurant
32	Agoura Hills	34.147910	-118.765704	Baja Fresh	34.156236	-118.793569	Mexican Restaurant
33	Alhambra	37.176060	-3.588110	Mirador De Morayma	37.180751	-3.589699	Spanish Restaurant
34	Alhambra	37.176060	-3.588110	Restaurante Las Tomasas	37.180746	-3.590771	Restaurant
35	Alhambra	37.176060	-3.588110	La Casa della Pasta	37.173084	-3.596277	Italian Restaurant
36	Alhambra	37.176060	-3.588110	Saint Germain	37.178491	-3.599411	French Restaurant
37	Alhambra	37.176060	-3.588110	Bar Ávila	37.170008	-3.599049	Spanish Restaurant
38	Alhambra	37.176060	-3.588110	El Quinteto	37.172391	-3.603130	French Restaurant
39	Alhambra	37.176060	-3.588110	Poë Bar	37.174484	-3.603373	French Restaurant
40	Alhambra	37.176060	-3.588110	Asador Curro	37.165043	-3.580653	Mediterranean Restaurant
41	Alhambra	37.176060	-3.588110	Restaurante Los Manueles	37.176282	-3.596771	Spanish Restaurant
42	Alhambra	37.176060	-3.588110	Restaurante Poetas Andaluces 2	37.173096	-3.606527	Spanish Restaurant
43	Alhambra	37.176060	-3.588110	Mesón La Cabaña del Río	37.164184	-3.604673	Spanish Restaurant
44	Alhambra	37.176060	-3.588110	Altamura	37.185871	-3.608466	Italian Restaurant

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
45	Alhambra	37.176060	-3.588110	Restaurante Japonés Zakuro	37.152755	-3.593255	Japanese Restaurant
46	Alhambra	37.176060	-3.588110	Bar Rios	37.156516	-3.592764	Tapas Restaurant
47	Alhambra	37.176060	-3.588110	Bar Ecu	37.155735	-3.593900	Tapas Restaurant
48	Alhambra	37.176060	-3.588110	Museo De La Tapa	37.156658	-3.591688	Restaurant
49	Alhambra	37.176060	-3.588110	Il Gondoliere	37.155177	-3.594367	Italian Restaurant
50	Alhambra	37.176060	-3.588110	Los Diamantes	37.151931	-3.580904	Seafood Restaurant
51	Alhambra	37.176060	-3.588110	La Tagliatella	37.157445	-3.583889	Italian Restaurant
52	Alhambra	37.176060	-3.588110	Mandala Restobar	37.153733	-3.591543	Restaurant
53	Alhambra	37.176060	-3.588110	McDonald's	37.153891	-3.592064	Fast Food Restaurant
54	Alhambra	37.176060	-3.588110	Fogón de Galicia	37.153860	-3.590706	Spanish Restaurant
55	Alhambra	37.176060	-3.588110	Cervecería La Tasca	37.156166	-3.592802	Spanish Restaurant
56	Alhambra	37.176060	-3.588110	D'platos	37.153980	-3.590588	Restaurant
57	Alhambra	37.176060	-3.588110	Restaurante Albanta	37.162936	-3.569874	Restaurant
58	Alhambra	37.176060	-3.588110	La Madraza	37.155274	-3.593462	Restaurant
59	Alhambra	37.176060	-3.588110	The bar and grill	37.155532	-3.594425	American Restaurant
60	Alhambra	37.176060	-3.588110	Rhin Barril	37.156220	-3.593261	Spanish Restaurant
61	Alhambra	37.176060	-3.588110	Taberna Lola	37.153842	-3.590677	Tapas Restaurant
62	Alhambra	37.176060	-3.588110	Sancho Casual Food	37.157331	-3.583729	Restaurant
63	Alhambra	37.176060	-3.588110	La Cueva de 1900	37.157248	-3.583663	Tapas Restaurant
64	Alhambra	37.176060	-3.588110	La Cueva de 1900	37.153717	-3.591914	Spanish Restaurant
65	Arcadia	34.136207	-118.040150	Din Tai Fung	34.135093	-118.051678	Dim Sum Restaurant
66	Arcadia	34.136207	-118.040150	In-N-Out Burger	34.145198	-118.031339	Fast Food Restaurant
67	Arcadia	34.136207	-118.040150	Maki & Sushi Arcadia	34.139862	-118.023871	Sushi Restaurant

	Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue	Venue Latitude	Venue Longitude	Venue Category
68	Arcadia	34.136207	-118.040150	Chick-fil-A	34.134699	-118.051591	Fast Food Restaurant
69	Arcadia	34.136207	-118.040150	Chipotle Mexican Grill	34.135727	-118.049737	Mexican Restaurant
70	Arcadia	34.136207	-118.040150	The Cheesecake Factory	34.134844	-118.049063	American Restaurant
71	Arcadia	34.136207	-118.040150	Hai Di Lao Hot Pot	34.133599	-118.052753	Chinese Restaurant
72	Arcadia	34.136207	-118.040150	Red Robin Gourmet Burgers and Brews	34.133220	-118.052603	Restaurant
73	Arcadia	34.136207	-118.040150	Taco Lita	34.130003	-118.027064	Mexican Restaurant
74	Arcadia	34.136207	-118.040150	Phoenix Food Boutique	34.127173	-118.054439	Chinese Restaurant
75	Arcadia	34.136207	-118.040150	Dumpling House	34.129449	-118.054872	Dumpling Restaurant

◀ ▶

In [38]: `LA_Venues_restaurant = LA_Venues_only_restaurant.groupby(['Neighborhood'])[['Venue Category']].apply(lambda x: x[x.str.contains('Restaurant')].count())`

In [39]: `# G: Analysis of the neighbourhoods.`

In [40]: LA_Venues_restaurant

Out[40]: Neighborhood

Agoura Hills	32
Alhambra	32
Arcadia	22
Artesia	41
Azusa	21
Baldwin Park	24
Beverly Hills	26
Bradbury	32
Burbank	23
Calabasas	9
Cerritos	37
Claremont	29
Covina	34
Culver City	22
Diamond Bar	28
Downey	31
El Segundo	22
Glendale	33
Glendora	26
Hermosa Beach	39
Hidden Hills	13
La Cañada Flintridge	31
La Habra Heights	13
La Mirada	28
La Puente	20
La Verne	25
Lakewood	25
Lomita	37
Long Beach	31
Malibu	19
Manhattan Beach	27
Monrovia	2
Monterey Park	52
Norwalk	34
Palos Verdes Estates	6
Pasadena	24
Pico Rivera	30
Rancho Palos Verdes	15
Redondo Beach	39
Rolling Hills	11
Rolling Hills Estates	42
San Dimas	19
San Fernando	17
San Gabriel	46
San Marino	23
Santa Clarita	23
Santa Fe Springs	29
Santa Monica	23
Sierra Madre	21
Signal Hill	30
South Pasadena	24
Temple City	40
Torrance	24
Walnut	28
West Covina	29
Westlake Village	37

Whittier 22
Name: Venue Category, dtype: int64

```
In [41]: LA_Venues_restaurant_df = LA_Venues_restaurant.to_frame().reset_index()  
LA_Venues_restaurant_df.columns = ['Neighborhood', 'Number of Restaurant']  
LA_Venues_restaurant_df.index = np.arange(1, len(LA_Venues_restaurant_df)+1)  
list_rest_no = LA_Venues_restaurant_df['Number of Restaurant'].to_list()  
list_dist = LA_Venues_restaurant_df['Neighborhood'].to_list()
```

```
In [43]: # one hot encoding
LA_onehot = pd.get_dummies(LA_Venues_only_restaurant[['Venue Category']], prefix="", prefix_sep="")

# add neighborhood column back to dataframe
LA_onehot['Neighborhood'] = LA_Venues_only_restaurant['Neighborhood']

# move neighborhood column to the first column
fixed_columns = [LA_onehot.columns[-1]] + list(LA_onehot.columns[:-1])
LA_onehot = LA_onehot[fixed_columns]

LA_onehot
#--.head()
```

Out[43]:

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1	Agoura Hills	0	0	0	0	0	0	0
2	Agoura Hills	0	0	0	0	0	0	0
3	Agoura Hills	0	0	0	0	0	0	0
4	Agoura Hills	0	0	0	0	0	0	0
5	Agoura Hills	0	0	0	0	0	0	0
6	Agoura Hills	1	0	0	0	0	0	0
7	Agoura Hills	0	0	0	0	0	0	0
8	Agoura Hills	0	0	0	0	0	0	0
9	Agoura Hills	0	0	0	0	0	0	0
10	Agoura Hills	0	0	0	0	0	0	0
11	Agoura Hills	0	0	0	0	0	0	0
12	Agoura Hills	0	0	0	0	0	0	0
13	Agoura Hills	0	0	0	0	0	0	0
14	Agoura Hills	0	0	0	0	0	0	0
15	Agoura Hills	0	0	0	0	0	0	0
16	Agoura Hills	0	0	0	0	0	0	0
17	Agoura Hills	0	0	0	0	0	0	0
18	Agoura Hills	0	0	0	0	0	0	0
19	Agoura Hills	0	0	0	0	0	0	0
20	Agoura Hills	0	0	0	0	0	0	0
21	Agoura Hills	0	0	0	0	0	0	0
22	Agoura Hills	0	0	0	0	0	0	0
23	Agoura Hills	0	0	0	0	0	0	0
24	Agoura Hills	0	0	0	1	0	0	0
25	Agoura Hills	0	0	0	0	0	0	0
26	Agoura Hills	0	0	0	0	0	0	0
27	Agoura Hills	0	0	0	0	0	0	0
28	Agoura Hills	0	0	0	0	0	0	0
29	Agoura Hills	0	0	0	0	0	0	0
30	Agoura Hills	0	0	0	0	0	0	0
31	Agoura Hills	0	0	0	0	0	0	0
32	Agoura Hills	0	0	0	0	0	0	0
33	Alhambra	0	0	0	0	0	0	0
34	Alhambra	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
35	Alhambra	0	0	0	0	0	0	0
36	Alhambra	0	0	0	0	0	0	0
37	Alhambra	0	0	0	0	0	0	0
38	Alhambra	0	0	0	0	0	0	0
39	Alhambra	0	0	0	0	0	0	0
40	Alhambra	0	0	0	0	0	0	0
41	Alhambra	0	0	0	0	0	0	0
42	Alhambra	0	0	0	0	0	0	0
43	Alhambra	0	0	0	0	0	0	0
44	Alhambra	0	0	0	0	0	0	0
45	Alhambra	0	0	0	0	0	0	0
46	Alhambra	0	0	0	0	0	0	0
47	Alhambra	0	0	0	0	0	0	0
48	Alhambra	0	0	0	0	0	0	0
49	Alhambra	0	0	0	0	0	0	0
50	Alhambra	0	0	0	0	0	0	0
51	Alhambra	0	0	0	0	0	0	0
52	Alhambra	0	0	0	0	0	0	0
53	Alhambra	0	0	0	0	0	0	0
54	Alhambra	0	0	0	0	0	0	0
55	Alhambra	0	0	0	0	0	0	0
56	Alhambra	0	0	0	0	0	0	0
57	Alhambra	0	0	0	0	0	0	0
58	Alhambra	0	0	0	0	0	0	0
59	Alhambra	1	0	0	0	0	0	0
60	Alhambra	0	0	0	0	0	0	0
61	Alhambra	0	0	0	0	0	0	0
62	Alhambra	0	0	0	0	0	0	0
63	Alhambra	0	0	0	0	0	0	0
64	Alhambra	0	0	0	0	0	0	0
65	Arcadia	0	0	0	0	0	0	0
66	Arcadia	0	0	0	0	0	0	0
67	Arcadia	0	0	0	0	0	0	0
68	Arcadia	0	0	0	0	0	0	0
69	Arcadia	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
70	Arcadia	1	0	0	0	0	0	0
71	Arcadia	0	0	0	0	0	0	0
72	Arcadia	0	0	0	0	0	0	0
73	Arcadia	0	0	0	0	0	0	0
74	Arcadia	0	0	0	0	0	0	0
75	Arcadia	0	0	0	0	0	0	0
76	Arcadia	0	0	0	0	0	0	0
77	Arcadia	0	0	0	0	0	0	0
78	Arcadia	0	0	0	0	0	0	0
79	Arcadia	0	0	0	0	0	0	0
80	Arcadia	1	0	0	0	0	0	0
81	Arcadia	0	0	0	0	0	0	0
82	Arcadia	0	0	0	1	0	0	0
83	Arcadia	0	0	0	0	0	0	0
84	Arcadia	0	0	0	0	0	0	0
85	Arcadia	0	0	0	0	0	0	0
86	Arcadia	0	0	0	0	0	0	0
87	Artesia	0	0	0	0	0	0	0
88	Artesia	0	0	0	0	0	0	0
89	Artesia	0	0	0	0	0	0	0
90	Artesia	0	0	0	0	0	0	0
91	Artesia	0	0	0	0	0	0	0
92	Artesia	0	0	0	0	0	0	0
93	Artesia	0	0	0	0	0	0	0
94	Artesia	0	0	0	0	0	0	0
95	Artesia	0	0	0	0	0	0	0
96	Artesia	0	0	0	0	0	0	0
97	Artesia	0	0	0	0	0	0	0
98	Artesia	0	0	0	0	0	0	0
99	Artesia	0	0	0	0	0	0	0
100	Artesia	1	0	0	0	0	0	0
101	Artesia	0	0	0	0	0	0	0
102	Artesia	0	0	0	0	0	0	0
103	Artesia	0	0	0	0	0	0	0
104	Artesia	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
105	Artesia	0	0	0	0	0	0	0
106	Artesia	0	0	0	0	0	0	0
107	Artesia	0	0	0	0	0	0	0
108	Artesia	0	0	0	0	0	0	0
109	Artesia	0	0	0	0	0	0	0
110	Artesia	0	0	0	0	0	0	0
111	Artesia	0	0	0	0	0	0	0
112	Artesia	0	0	0	0	0	0	0
113	Artesia	0	0	0	0	0	0	0
114	Artesia	0	0	0	0	0	0	0
115	Artesia	0	0	0	0	0	0	0
116	Artesia	0	0	0	0	0	0	0
117	Artesia	0	0	0	0	0	0	0
118	Artesia	0	0	0	1	0	0	0
119	Artesia	0	0	0	0	0	0	0
120	Artesia	0	0	0	0	0	0	0
121	Artesia	0	0	0	0	0	0	0
122	Artesia	0	0	0	0	0	0	0
123	Artesia	0	0	0	0	0	0	0
124	Artesia	0	0	0	0	0	0	0
125	Artesia	0	0	0	1	0	0	0
126	Artesia	0	0	0	0	0	0	0
127	Artesia	1	0	0	0	0	0	0
128	Azusa	0	0	0	0	0	0	0
129	Azusa	0	0	0	0	0	0	0
130	Azusa	1	0	0	0	0	0	0
131	Azusa	0	0	0	0	0	0	0
132	Azusa	0	0	0	0	0	0	0
133	Azusa	0	0	0	0	0	0	0
134	Azusa	1	0	0	0	0	0	0
135	Azusa	0	0	0	0	0	0	0
136	Azusa	1	0	0	0	0	0	0
137	Azusa	1	0	0	0	0	0	0
138	Azusa	0	0	0	0	0	0	0
139	Azusa	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
140	Azusa	0	0	0	0	0	0	0
141	Azusa	0	0	0	0	0	0	0
142	Azusa	0	0	0	0	0	0	0
143	Azusa	1	0	0	0	0	0	0
144	Azusa	0	0	0	0	0	0	0
145	Azusa	0	0	0	0	0	0	0
146	Azusa	0	0	0	0	0	0	0
147	Azusa	0	0	0	0	0	0	0
148	Azusa	0	0	0	0	0	0	0
149	Baldwin Park	0	0	0	0	0	0	0
150	Baldwin Park	0	0	0	0	0	0	0
151	Baldwin Park	0	0	0	0	0	0	0
152	Baldwin Park	0	0	0	0	0	0	0
153	Baldwin Park	0	0	0	0	0	0	0
154	Baldwin Park	0	0	0	0	0	0	0
155	Baldwin Park	0	0	0	0	0	0	0
156	Baldwin Park	0	0	0	0	0	0	0
157	Baldwin Park	0	0	0	0	0	0	0
158	Baldwin Park	0	0	0	0	0	0	0
159	Baldwin Park	0	0	0	1	0	0	0
160	Baldwin Park	0	0	0	0	0	0	0
161	Baldwin Park	0	0	0	0	0	0	0
162	Baldwin Park	0	0	0	0	0	0	0
163	Baldwin Park	0	0	0	0	0	0	0
164	Baldwin Park	0	0	0	0	0	0	0
165	Baldwin Park	0	0	0	0	0	0	0
166	Baldwin Park	0	0	0	0	0	0	0
167	Baldwin Park	0	0	0	0	0	0	0
168	Baldwin Park	0	0	0	0	0	0	0
169	Baldwin Park	0	0	0	0	0	0	0
170	Baldwin Park	0	0	0	0	0	0	0
171	Baldwin Park	0	0	0	0	0	0	0
172	Baldwin Park	0	0	0	0	0	0	0
173	Beverly Hills	0	0	0	0	0	0	0
174	Beverly Hills	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
175	Beverly Hills	1	0	0	0	0	0	0
176	Beverly Hills	0	0	0	0	0	0	0
177	Beverly Hills	1	0	0	0	0	0	0
178	Beverly Hills	0	0	0	0	0	0	0
179	Beverly Hills	0	0	0	0	0	0	0
180	Beverly Hills	0	0	0	0	0	0	0
181	Beverly Hills	0	0	0	0	0	0	0
182	Beverly Hills	0	0	0	0	0	0	0
183	Beverly Hills	0	0	0	0	0	0	0
184	Beverly Hills	1	0	0	0	0	0	0
185	Beverly Hills	1	0	0	0	0	0	0
186	Beverly Hills	0	0	0	0	0	0	0
187	Beverly Hills	0	0	0	0	0	0	0
188	Beverly Hills	0	0	0	0	0	0	0
189	Beverly Hills	0	0	0	0	0	0	0
190	Beverly Hills	0	0	0	0	0	0	0
191	Beverly Hills	1	0	0	0	0	0	0
192	Beverly Hills	0	0	0	0	0	0	0
193	Beverly Hills	1	0	0	0	0	0	0
194	Beverly Hills	0	0	0	0	0	0	0
195	Beverly Hills	0	0	0	0	0	0	0
196	Beverly Hills	1	0	0	0	0	0	0
197	Beverly Hills	0	0	0	0	0	0	0
198	Beverly Hills	0	0	0	0	0	0	0
199	Bradbury	0	0	0	0	0	0	0
200	Bradbury	0	0	0	0	0	0	0
201	Bradbury	0	0	0	0	0	0	0
202	Bradbury	0	0	0	1	0	0	0
203	Bradbury	0	0	0	0	0	0	0
204	Bradbury	0	0	0	0	0	0	0
205	Bradbury	0	0	0	0	0	0	0
206	Bradbury	0	0	0	0	0	0	0
207	Bradbury	0	0	0	0	0	0	0
208	Bradbury	0	0	0	0	0	0	0
209	Bradbury	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
210	Bradbury	0	0	0	0	0	0	0
211	Bradbury	0	0	0	0	0	0	0
212	Bradbury	0	0	0	0	0	0	0
213	Bradbury	0	0	0	0	0	0	0
214	Bradbury	0	0	0	0	0	0	0
215	Bradbury	0	0	0	0	0	0	0
216	Bradbury	0	0	0	0	0	0	0
217	Bradbury	0	0	0	0	0	0	0
218	Bradbury	0	0	0	0	0	0	0
219	Bradbury	0	0	0	0	0	0	0
220	Bradbury	0	0	0	0	0	0	0
221	Bradbury	0	0	0	0	0	0	0
222	Bradbury	1	0	0	0	0	0	0
223	Bradbury	0	0	0	0	0	0	0
224	Bradbury	0	0	0	0	0	0	0
225	Bradbury	1	0	0	0	0	0	0
226	Bradbury	0	0	0	0	0	0	0
227	Bradbury	0	0	0	0	0	0	0
228	Bradbury	0	0	0	0	0	0	0
229	Bradbury	0	0	0	0	0	0	0
230	Bradbury	0	0	0	0	0	0	0
231	Burbank	0	0	0	0	0	0	0
232	Burbank	0	0	0	0	0	0	0
233	Burbank	0	0	0	0	0	0	0
234	Burbank	1	0	0	0	0	0	0
235	Burbank	0	0	0	0	0	0	0
236	Burbank	0	0	0	0	0	0	0
237	Burbank	0	0	0	0	0	0	0
238	Burbank	0	0	0	0	0	0	0
239	Burbank	0	0	0	0	0	0	0
240	Burbank	0	0	0	0	0	0	0
241	Burbank	0	0	0	0	0	0	0
242	Burbank	1	0	0	0	0	0	0
243	Burbank	0	0	0	0	0	0	0
244	Burbank	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
245	Burbank	0	0	0	0	0	0	0
246	Burbank	0	0	0	0	0	0	0
247	Burbank	0	0	0	0	0	0	0
248	Burbank	1	0	0	0	0	0	0
249	Burbank	0	0	0	0	0	0	0
250	Burbank	0	0	0	0	0	0	0
251	Burbank	0	0	0	0	0	0	0
252	Burbank	0	0	0	1	0	0	0
253	Burbank	0	0	0	0	0	0	0
254	Calabasas	0	0	0	0	0	0	0
255	Calabasas	0	0	0	0	0	0	0
256	Calabasas	0	0	0	0	0	0	0
257	Calabasas	1	0	0	0	0	0	0
258	Calabasas	0	0	0	0	0	0	0
259	Calabasas	0	0	0	0	0	0	0
260	Calabasas	0	0	0	0	0	0	0
261	Calabasas	0	0	0	0	0	0	0
262	Calabasas	0	0	0	0	0	0	0
263	Cerritos	0	0	0	0	0	0	0
264	Cerritos	0	0	0	0	0	0	0
265	Cerritos	0	0	0	0	0	0	0
266	Cerritos	0	0	0	0	0	0	0
267	Cerritos	0	0	0	0	0	0	0
268	Cerritos	0	0	0	0	0	0	0
269	Cerritos	0	0	0	0	0	0	0
270	Cerritos	0	0	0	0	0	0	0
271	Cerritos	1	0	0	0	0	0	0
272	Cerritos	0	0	0	0	0	0	0
273	Cerritos	0	0	0	0	0	0	0
274	Cerritos	0	0	0	0	0	0	0
275	Cerritos	0	0	0	0	0	0	0
276	Cerritos	1	0	0	0	0	0	0
277	Cerritos	0	0	0	0	0	0	0
278	Cerritos	0	0	0	0	0	0	0
279	Cerritos	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
280	Cerritos	0	0	0	0	0	0	0
281	Cerritos	0	0	0	1	0	0	0
282	Cerritos	0	0	0	0	0	0	0
283	Cerritos	0	0	0	0	0	0	0
284	Cerritos	0	0	0	0	0	0	0
285	Cerritos	0	0	0	0	0	0	0
286	Cerritos	0	0	0	0	0	0	0
287	Cerritos	0	0	0	0	0	0	0
288	Cerritos	0	0	0	0	0	0	0
289	Cerritos	0	0	0	0	0	0	0
290	Cerritos	0	0	0	0	0	0	0
291	Cerritos	0	0	0	0	0	0	0
292	Cerritos	0	0	0	0	0	0	0
293	Cerritos	0	0	0	0	0	0	0
294	Cerritos	0	0	0	0	0	0	0
295	Cerritos	0	0	0	0	0	0	0
296	Cerritos	0	0	0	0	0	0	0
297	Cerritos	0	0	0	1	0	0	0
298	Cerritos	0	0	0	0	0	0	0
299	Cerritos	0	0	0	0	0	0	0
300	Claremont	0	0	0	0	0	0	0
301	Claremont	1	0	0	0	0	0	0
302	Claremont	1	0	0	0	0	0	0
303	Claremont	0	0	0	0	0	0	0
304	Claremont	0	0	0	0	0	0	0
305	Claremont	1	0	0	0	0	0	0
306	Claremont	0	0	0	0	0	0	0
307	Claremont	0	0	0	0	0	0	0
308	Claremont	0	0	0	0	0	0	0
309	Claremont	0	0	0	0	0	0	0
310	Claremont	1	0	0	0	0	0	0
311	Claremont	0	0	0	0	0	0	0
312	Claremont	0	0	0	0	0	0	0
313	Claremont	0	0	0	0	0	0	0
314	Claremont	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
315	Claremont	1	0	0	0	0	0	0
316	Claremont	0	0	0	0	0	0	0
317	Claremont	0	0	0	0	0	0	0
318	Claremont	0	0	0	0	0	0	0
319	Claremont	0	0	0	0	0	0	0
320	Claremont	0	0	0	0	0	0	0
321	Claremont	0	0	0	0	0	0	0
322	Claremont	0	0	0	0	0	0	0
323	Claremont	0	0	0	0	0	0	0
324	Claremont	0	0	0	0	0	0	0
325	Claremont	0	0	0	0	0	0	0
326	Claremont	0	0	0	0	0	0	0
327	Claremont	0	0	0	0	0	0	0
328	Claremont	0	0	0	0	0	0	0
329	Covina	1	0	0	0	0	0	0
330	Covina	0	0	0	0	0	0	0
331	Covina	1	0	0	0	0	0	0
332	Covina	0	0	0	0	0	0	0
333	Covina	1	0	0	0	0	0	0
334	Covina	0	0	0	0	0	0	0
335	Covina	0	0	0	0	0	0	0
336	Covina	0	0	0	0	0	0	0
337	Covina	0	0	0	0	0	0	0
338	Covina	0	0	0	1	0	0	0
339	Covina	0	0	0	0	0	0	0
340	Covina	0	0	0	0	0	0	0
341	Covina	0	0	0	0	0	0	0
342	Covina	0	0	0	0	0	0	0
343	Covina	0	0	0	0	0	0	0
344	Covina	0	0	0	0	0	0	0
345	Covina	0	0	0	0	0	0	0
346	Covina	0	0	0	0	0	0	0
347	Covina	0	0	0	0	0	0	0
348	Covina	0	0	0	0	0	0	0
349	Covina	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
350	Covina	0	0	0	0	0	0	0
351	Covina	0	0	0	0	0	0	0
352	Covina	1	0	0	0	0	0	0
353	Covina	0	0	0	0	0	0	0
354	Covina	1	0	0	0	0	0	0
355	Covina	1	0	0	0	0	0	0
356	Covina	0	0	0	0	0	0	0
357	Covina	0	0	0	0	0	0	0
358	Covina	1	0	0	0	0	0	0
359	Covina	0	0	0	0	0	0	0
360	Covina	0	0	0	0	0	0	0
361	Covina	0	0	0	0	0	0	0
362	Covina	0	0	0	0	0	0	0
363	Culver City	0	0	0	0	0	0	0
364	Culver City	0	0	0	0	0	0	0
365	Culver City	0	0	0	0	0	0	0
366	Culver City	0	0	0	0	0	0	0
367	Culver City	0	0	0	0	0	0	1
368	Culver City	0	0	0	0	0	0	0
369	Culver City	1	0	0	0	0	0	0
370	Culver City	0	0	0	0	0	0	0
371	Culver City	0	0	0	0	0	0	0
372	Culver City	0	0	0	0	0	0	0
373	Culver City	0	0	0	0	0	0	0
374	Culver City	0	0	0	0	0	0	0
375	Culver City	0	0	0	0	0	0	0
376	Culver City	0	0	0	1	0	0	0
377	Culver City	0	0	0	0	0	0	0
378	Culver City	0	0	0	0	0	0	0
379	Culver City	0	0	0	0	0	0	0
380	Culver City	0	0	0	0	0	0	0
381	Culver City	0	0	0	0	0	0	0
382	Culver City	0	0	0	0	0	0	0
383	Culver City	0	0	0	0	0	0	0
384	Culver City	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
385	Diamond Bar	1	0	0	0	0	0	0
386	Diamond Bar	0	0	0	0	0	0	0
387	Diamond Bar	0	0	0	0	0	0	0
388	Diamond Bar	0	0	0	0	0	0	0
389	Diamond Bar	0	0	0	0	0	0	0
390	Diamond Bar	0	0	0	0	0	0	0
391	Diamond Bar	0	0	0	0	0	0	0
392	Diamond Bar	0	0	0	0	0	0	0
393	Diamond Bar	0	0	0	0	0	0	0
394	Diamond Bar	1	0	0	0	0	0	0
395	Diamond Bar	0	0	0	0	0	0	0
396	Diamond Bar	0	0	0	0	0	0	0
397	Diamond Bar	0	0	0	0	0	0	0
398	Diamond Bar	0	0	0	0	0	0	0
399	Diamond Bar	0	0	0	0	0	0	0
400	Diamond Bar	0	0	0	0	0	0	0
401	Diamond Bar	0	0	0	0	0	0	0
402	Diamond Bar	0	0	0	1	0	0	0
403	Diamond Bar	0	0	0	0	0	0	0
404	Diamond Bar	0	0	0	0	0	0	0
405	Diamond Bar	0	0	0	0	0	0	0
406	Diamond Bar	0	0	0	0	0	0	0
407	Diamond Bar	0	0	0	0	0	0	0
408	Diamond Bar	0	0	0	0	0	0	0
409	Diamond Bar	0	0	0	0	0	0	0
410	Diamond Bar	0	0	0	0	0	0	0
411	Diamond Bar	0	0	0	0	0	0	0
412	Diamond Bar	0	0	0	0	0	0	0
413	Downey	0	0	0	0	0	0	0
414	Downey	0	0	0	0	0	0	0
415	Downey	1	0	0	0	0	0	0
416	Downey	0	0	0	0	0	0	0
417	Downey	0	0	0	0	0	0	0
418	Downey	0	0	0	0	0	0	0
419	Downey	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
420	Downey	0	0	0	0	0	0	0
421	Downey	0	0	0	0	0	0	0
422	Downey	0	0	0	0	0	0	0
423	Downey	0	0	0	0	0	0	0
424	Downey	1	0	0	0	0	0	0
425	Downey	0	0	0	0	0	0	0
426	Downey	0	0	0	0	0	0	0
427	Downey	0	0	0	0	0	0	0
428	Downey	0	0	0	0	0	0	0
429	Downey	0	0	0	0	0	0	0
430	Downey	0	0	0	0	0	0	0
431	Downey	0	0	0	0	0	0	0
432	Downey	1	0	0	0	0	0	0
433	Downey	0	0	1	0	0	0	0
434	Downey	0	0	0	0	0	0	0
435	Downey	0	0	0	0	0	0	0
436	Downey	0	0	0	0	0	0	0
437	Downey	0	0	0	0	0	0	0
438	Downey	0	0	0	0	0	0	0
439	Downey	0	0	0	0	0	0	0
440	Downey	0	0	0	0	0	0	0
441	Downey	0	0	0	0	0	0	0
442	Downey	0	0	0	0	0	0	0
443	Downey	0	0	0	0	0	0	0
444	El Segundo	0	0	0	0	0	0	0
445	El Segundo	1	0	0	0	0	0	0
446	El Segundo	0	0	0	0	0	0	0
447	El Segundo	0	0	0	0	0	0	0
448	El Segundo	0	0	0	0	0	0	0
449	El Segundo	1	0	0	0	0	0	0
450	El Segundo	0	0	0	0	0	0	0
451	El Segundo	0	0	0	0	0	0	0
452	El Segundo	0	0	0	0	0	0	0
453	El Segundo	0	0	0	0	0	0	0
454	El Segundo	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
455	El Segundo	0	0	0	0	0	0	0
456	El Segundo	0	0	0	0	0	0	0
457	El Segundo	0	0	0	0	0	0	0
458	El Segundo	0	0	0	0	0	0	0
459	El Segundo	0	0	0	0	0	0	0
460	El Segundo	0	0	0	0	0	0	0
461	El Segundo	0	0	0	0	0	0	0
462	El Segundo	0	0	0	0	0	0	0
463	El Segundo	0	0	0	0	0	0	0
464	El Segundo	0	0	0	0	0	0	0
465	El Segundo	0	0	0	0	0	0	0
466	Glendale	0	0	0	0	0	0	0
467	Glendale	0	0	0	0	0	0	0
468	Glendale	0	0	0	1	0	0	0
469	Glendale	0	0	0	0	0	0	0
470	Glendale	0	0	0	0	0	0	0
471	Glendale	0	0	0	0	0	0	0
472	Glendale	0	0	0	0	0	0	0
473	Glendale	0	0	0	0	0	0	0
474	Glendale	0	0	0	0	0	0	0
475	Glendale	0	0	0	0	0	0	0
476	Glendale	0	0	0	0	0	0	0
477	Glendale	1	0	0	0	0	0	0
478	Glendale	0	0	0	0	0	0	0
479	Glendale	0	0	0	0	0	0	0
480	Glendale	0	0	0	0	0	0	0
481	Glendale	0	0	0	0	0	0	0
482	Glendale	0	0	0	0	0	0	0
483	Glendale	0	0	0	0	0	0	0
484	Glendale	0	0	0	0	0	0	0
485	Glendale	0	0	0	0	0	0	0
486	Glendale	0	0	0	0	0	0	0
487	Glendale	0	0	0	0	0	0	0
488	Glendale	0	0	0	0	0	0	0
489	Glendale	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
490	Glendale	0	0	0	1	0	0	
491	Glendale	0	0	0	1	0	0	
492	Glendale	0	0	0	0	0	0	
493	Glendale	0	0	1	0	0	0	
494	Glendale	0	0	0	0	0	0	
495	Glendale	0	0	0	0	0	0	
496	Glendale	0	0	0	0	0	0	
497	Glendale	0	0	0	0	0	0	
498	Glendale	0	0	0	0	0	0	
499	Glendora	0	0	0	0	0	0	
500	Glendora	1	0	0	0	0	0	
501	Glendora	0	0	0	0	0	0	
502	Glendora	0	0	1	0	0	0	
503	Glendora	0	0	0	0	0	0	
504	Glendora	0	0	0	0	0	0	
505	Glendora	0	0	0	0	0	0	
506	Glendora	0	0	0	0	0	0	
507	Glendora	0	0	0	0	0	0	
508	Glendora	1	0	0	0	0	0	
509	Glendora	0	0	0	0	0	0	
510	Glendora	0	0	0	0	0	0	
511	Glendora	1	0	0	0	0	0	
512	Glendora	0	0	0	0	0	0	
513	Glendora	1	0	0	0	0	0	
514	Glendora	1	0	0	0	0	0	
515	Glendora	0	0	0	0	0	0	
516	Glendora	1	0	0	0	0	0	
517	Glendora	0	0	0	0	0	0	
518	Glendora	1	0	0	0	0	0	
519	Glendora	0	0	0	0	0	0	
520	Glendora	0	0	0	0	0	0	
521	Glendora	0	0	0	0	0	0	
522	Glendora	0	0	0	0	0	0	
523	Glendora	0	0	0	0	0	0	
524	Glendora	1	0	0	0	0	0	

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
525	Hermosa Beach	0	0	0	0	0	0	0
526	Hermosa Beach	0	0	0	0	0	0	0
527	Hermosa Beach	0	0	0	0	0	0	0
528	Hermosa Beach	0	0	0	0	0	0	0
529	Hermosa Beach	0	0	0	0	0	0	0
530	Hermosa Beach	0	0	0	0	0	0	0
531	Hermosa Beach	1	0	0	0	0	0	0
532	Hermosa Beach	0	0	0	0	0	0	0
533	Hermosa Beach	0	0	0	0	0	0	0
534	Hermosa Beach	0	0	0	0	1	0	0
535	Hermosa Beach	0	0	0	0	0	0	0
536	Hermosa Beach	0	0	0	1	0	0	0
537	Hermosa Beach	0	0	0	0	0	0	0
538	Hermosa Beach	0	0	0	0	0	0	0
539	Hermosa Beach	0	0	0	0	0	0	0
540	Hermosa Beach	1	0	0	0	0	0	0
541	Hermosa Beach	0	0	0	0	0	0	0
542	Hermosa Beach	0	0	0	0	0	0	0
543	Hermosa Beach	1	0	0	0	0	0	0
544	Hermosa Beach	0	0	0	0	0	0	0
545	Hermosa Beach	0	0	0	0	0	0	0
546	Hermosa Beach	0	0	0	0	0	0	0
547	Hermosa Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
548	Hermosa Beach	0	0	0	0	0	0	0
549	Hermosa Beach	0	0	0	0	0	0	0
550	Hermosa Beach	0	0	0	0	0	0	0
551	Hermosa Beach	0	0	0	0	0	0	0
552	Hermosa Beach	0	0	0	0	0	0	0
553	Hermosa Beach	0	0	0	0	0	0	0
554	Hermosa Beach	0	0	0	0	0	0	0
555	Hermosa Beach	1	0	0	0	0	0	0
556	Hermosa Beach	0	0	0	0	0	0	0
557	Hermosa Beach	0	0	0	0	0	0	0
558	Hermosa Beach	0	0	0	0	0	0	0
559	Hermosa Beach	0	0	0	0	0	0	0
560	Hermosa Beach	0	0	0	0	0	0	0
561	Hermosa Beach	0	0	0	1	0	0	0
562	Hermosa Beach	0	0	0	0	0	0	0
563	Hermosa Beach	0	0	0	0	0	0	0
564	Hidden Hills	0	0	0	0	0	0	0
565	Hidden Hills	0	0	0	0	0	0	0
566	Hidden Hills	0	0	0	0	0	0	0
567	Hidden Hills	0	0	0	0	0	0	0
568	Hidden Hills	0	0	0	0	0	0	0
569	Hidden Hills	1	0	0	0	0	0	0
570	Hidden Hills	0	0	0	0	0	0	0
571	Hidden Hills	0	0	0	0	0	0	0
572	Hidden Hills	0	0	0	0	0	0	0
573	Hidden Hills	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
574	Hidden Hills	0	0	0	0	0	0	0
575	Hidden Hills	0	0	0	0	0	0	0
576	Hidden Hills	0	0	0	0	0	0	0
577	La Cañada Flintridge	0	0	0	0	0	0	0
578	La Cañada Flintridge	0	0	0	0	0	0	0
579	La Cañada Flintridge	0	0	0	0	0	0	0
580	La Cañada Flintridge	0	0	0	0	0	0	0
581	La Cañada Flintridge	0	0	0	0	0	0	0
582	La Cañada Flintridge	0	0	0	0	0	0	0
583	La Cañada Flintridge	0	0	0	0	0	0	0
584	La Cañada Flintridge	0	0	0	0	0	0	0
585	La Cañada Flintridge	0	0	0	0	0	0	0
586	La Cañada Flintridge	1	0	0	0	0	0	0
587	La Cañada Flintridge	0	0	0	0	0	0	0
588	La Cañada Flintridge	0	0	0	0	0	0	0
589	La Cañada Flintridge	0	0	0	0	0	0	0
590	La Cañada Flintridge	1	0	0	0	0	0	0
591	La Cañada Flintridge	0	0	0	0	0	0	0
592	La Cañada Flintridge	0	0	0	0	0	0	0
593	La Cañada Flintridge	0	0	0	0	0	0	0
594	La Cañada Flintridge	0	0	0	0	0	0	0
595	La Cañada Flintridge	0	0	0	0	0	0	0
596	La Cañada Flintridge	0	0	0	0	0	0	0
597	La Cañada Flintridge	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
598	La Cañada Flintridge	0	0	0	0	0	0	0
599	La Cañada Flintridge	0	0	0	0	0	0	0
600	La Cañada Flintridge	0	0	0	0	0	0	0
601	La Cañada Flintridge	0	0	0	1	0	0	0
602	La Cañada Flintridge	0	0	0	0	0	0	0
603	La Cañada Flintridge	0	0	0	0	0	0	0
604	La Cañada Flintridge	0	0	0	0	0	0	0
605	La Cañada Flintridge	0	0	0	0	0	0	0
606	La Cañada Flintridge	0	0	0	0	0	0	0
607	La Cañada Flintridge	0	0	0	0	0	0	0
608	La Habra Heights	0	0	0	0	0	0	0
609	La Habra Heights	0	0	0	0	0	0	0
610	La Habra Heights	1	0	0	0	0	0	0
611	La Habra Heights	0	0	0	0	0	0	0
612	La Habra Heights	0	0	0	0	0	0	0
613	La Habra Heights	0	0	0	0	0	0	0
614	La Habra Heights	0	0	0	0	0	0	0
615	La Habra Heights	0	0	0	0	0	0	0
616	La Habra Heights	0	0	0	0	0	0	0
617	La Habra Heights	0	0	0	0	0	0	0
618	La Habra Heights	0	0	0	0	0	0	0
619	La Habra Heights	0	0	0	0	0	0	0
620	La Habra Heights	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
621	Lakewood	0	0	0	0	0	0	0
622	Lakewood	0	0	0	0	0	0	0
623	Lakewood	0	0	0	0	0	0	0
624	Lakewood	1	0	0	0	0	0	0
625	Lakewood	1	0	0	0	0	0	0
626	Lakewood	0	0	0	0	0	0	0
627	Lakewood	0	0	0	0	0	0	0
628	Lakewood	0	0	0	0	0	0	0
629	Lakewood	0	0	0	0	0	0	0
630	Lakewood	0	0	0	0	0	0	0
631	Lakewood	0	0	0	0	0	0	0
632	Lakewood	0	0	0	0	0	0	0
633	Lakewood	0	0	0	0	0	0	0
634	Lakewood	0	0	0	0	0	0	0
635	Lakewood	0	0	0	0	0	0	0
636	Lakewood	1	0	0	0	0	0	0
637	Lakewood	0	0	0	0	0	0	0
638	Lakewood	0	0	0	0	0	0	0
639	Lakewood	1	0	0	0	0	0	0
640	Lakewood	0	0	0	0	0	0	0
641	Lakewood	0	0	0	0	0	0	0
642	Lakewood	0	0	0	0	0	0	0
643	Lakewood	0	0	0	0	0	0	0
644	Lakewood	0	0	0	0	0	0	0
645	Lakewood	1	0	0	0	0	0	0
646	La Mirada	0	0	0	0	0	0	0
647	La Mirada	0	0	0	1	0	0	0
648	La Mirada	0	0	0	0	0	0	0
649	La Mirada	0	0	0	0	0	0	0
650	La Mirada	0	0	0	0	0	0	0
651	La Mirada	0	0	0	0	0	0	0
652	La Mirada	0	0	0	0	0	0	0
653	La Mirada	0	0	0	0	0	0	0
654	La Mirada	0	0	0	0	0	0	0
655	La Mirada	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
656	La Mirada	1	0	0	0	0	0	0
657	La Mirada	0	0	0	0	0	0	0
658	La Mirada	0	0	0	0	0	0	0
659	La Mirada	0	0	0	0	0	0	0
660	La Mirada	0	0	0	0	0	0	0
661	La Mirada	0	0	0	0	0	0	0
662	La Mirada	1	0	0	0	0	0	0
663	La Mirada	0	0	0	0	0	0	0
664	La Mirada	1	0	0	0	0	0	0
665	La Mirada	0	0	0	0	0	0	0
666	La Mirada	0	0	0	0	0	0	0
667	La Mirada	0	0	0	0	0	0	0
668	La Mirada	0	0	0	0	0	0	0
669	La Mirada	0	0	0	0	0	0	0
670	La Mirada	0	0	0	0	0	0	0
671	La Mirada	0	0	0	0	0	0	0
672	La Mirada	0	0	0	0	0	0	0
673	La Mirada	0	0	0	0	0	0	0
674	La Puente	0	0	0	0	0	0	0
675	La Puente	0	0	0	0	0	0	0
676	La Puente	0	0	0	0	0	0	0
677	La Puente	0	0	0	0	0	0	0
678	La Puente	0	0	0	0	0	0	0
679	La Puente	0	0	0	0	0	0	0
680	La Puente	0	0	0	0	0	0	0
681	La Puente	0	0	0	0	0	0	0
682	La Puente	0	0	0	0	0	0	0
683	La Puente	0	0	0	0	0	0	0
684	La Puente	0	0	0	0	0	0	0
685	La Puente	0	0	0	0	0	0	0
686	La Puente	0	0	0	0	0	0	0
687	La Puente	0	0	0	0	0	0	0
688	La Puente	0	0	0	0	0	0	0
689	La Puente	0	0	0	0	0	0	0
690	La Puente	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
691	La Puente	0	0	0	0	0	0	0
692	La Puente	0	0	0	0	0	0	0
693	La Puente	0	0	0	0	0	0	0
694	La Verne	0	0	0	0	0	0	0
695	La Verne	1	0	0	0	0	0	0
696	La Verne	0	0	0	0	0	0	0
697	La Verne	0	0	0	0	0	0	0
698	La Verne	0	0	0	0	0	0	0
699	La Verne	0	0	0	0	0	0	0
700	La Verne	0	0	0	0	0	0	0
701	La Verne	0	0	0	0	0	0	0
702	La Verne	0	0	0	0	0	0	0
703	La Verne	0	0	0	0	0	0	0
704	La Verne	0	0	0	0	0	0	0
705	La Verne	0	0	0	0	0	0	0
706	La Verne	0	0	0	0	0	0	0
707	La Verne	0	0	0	0	0	0	0
708	La Verne	0	0	0	0	0	0	0
709	La Verne	0	0	0	1	0	0	0
710	La Verne	0	0	0	0	0	0	0
711	La Verne	0	0	0	0	0	0	0
712	La Verne	0	0	0	0	0	0	0
713	La Verne	0	0	0	0	0	0	0
714	La Verne	0	0	0	0	0	0	0
715	La Verne	0	0	0	0	0	0	0
716	La Verne	0	0	0	0	0	0	0
717	La Verne	0	0	0	0	0	0	0
718	La Verne	0	0	0	0	0	0	0
719	Lomita	0	0	0	0	0	0	0
720	Lomita	0	0	0	0	0	0	0
721	Lomita	0	0	0	0	0	0	0
722	Lomita	0	0	0	0	0	0	0
723	Lomita	0	0	0	0	0	0	0
724	Lomita	0	0	0	1	0	0	0
725	Lomita	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
726	Lomita	0	0	0	0	0	0	0
727	Lomita	0	0	0	0	0	0	0
728	Lomita	0	0	0	0	0	0	0
729	Lomita	0	0	0	0	0	0	0
730	Lomita	0	0	0	0	0	0	0
731	Lomita	0	0	0	0	0	0	0
732	Lomita	0	0	0	0	0	0	0
733	Lomita	0	0	0	0	0	0	0
734	Lomita	0	0	0	0	0	0	0
735	Lomita	0	0	0	0	0	0	0
736	Lomita	0	0	0	0	0	0	0
737	Lomita	0	0	1	0	0	0	0
738	Lomita	0	0	0	0	0	0	0
739	Lomita	0	0	0	0	0	0	0
740	Lomita	1	0	0	0	0	0	0
741	Lomita	0	0	0	0	0	0	0
742	Lomita	0	0	0	0	0	0	0
743	Lomita	0	0	0	0	0	0	0
744	Lomita	0	0	0	0	0	0	0
745	Lomita	0	0	0	0	0	0	0
746	Lomita	0	0	0	0	0	0	0
747	Lomita	0	0	0	0	0	0	0
748	Lomita	0	0	0	1	0	0	0
749	Lomita	0	0	0	0	0	0	0
750	Lomita	0	0	0	0	0	0	0
751	Lomita	0	0	0	0	0	0	0
752	Lomita	0	0	0	0	0	0	0
753	Lomita	0	0	0	0	0	0	0
754	Lomita	0	0	0	0	0	0	0
755	Lomita	0	0	0	0	0	0	0
756	Long Beach	0	0	1	0	0	0	0
757	Long Beach	0	0	0	0	0	0	0
758	Long Beach	0	0	0	0	0	0	0
759	Long Beach	1	0	0	0	0	0	0
760	Long Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
761	Long Beach	0	0	0	0	0	0	0
762	Long Beach	0	0	0	0	0	0	0
763	Long Beach	0	0	0	0	0	0	0
764	Long Beach	1	0	0	0	0	0	0
765	Long Beach	0	0	0	0	0	0	0
766	Long Beach	1	0	0	0	0	0	0
767	Long Beach	1	0	0	0	0	0	0
768	Long Beach	0	0	0	0	0	0	0
769	Long Beach	0	0	0	0	0	0	0
770	Long Beach	0	0	0	0	0	0	0
771	Long Beach	0	0	0	0	0	0	0
772	Long Beach	0	0	0	0	0	0	0
773	Long Beach	0	0	0	0	0	0	0
774	Long Beach	0	0	0	0	0	0	0
775	Long Beach	1	0	0	0	0	0	0
776	Long Beach	0	0	0	0	0	0	0
777	Long Beach	0	0	0	0	0	0	0
778	Long Beach	0	0	0	0	0	0	0
779	Long Beach	1	0	0	0	0	0	0
780	Long Beach	0	0	0	0	0	0	0
781	Long Beach	0	0	0	0	0	0	0
782	Long Beach	0	0	0	0	0	0	0
783	Long Beach	0	0	0	0	0	0	0
784	Long Beach	0	0	0	0	0	0	0
785	Long Beach	0	0	0	0	0	0	0
786	Long Beach	0	0	0	0	0	0	0
787	Malibu	0	0	0	0	0	0	0
788	Malibu	0	0	0	0	0	0	0
789	Malibu	0	0	0	0	0	0	0
790	Malibu	0	0	0	1	0	0	0
791	Malibu	0	0	0	0	0	0	0
792	Malibu	0	0	0	0	0	0	0
793	Malibu	1	0	0	0	0	0	0
794	Malibu	0	0	0	0	0	0	0
795	Malibu	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
796	Malibu	0	0	0	0	0	0	0
797	Malibu	0	0	0	0	0	0	0
798	Malibu	0	0	0	0	0	0	0
799	Malibu	0	0	0	0	0	0	0
800	Malibu	1	0	0	0	0	0	0
801	Malibu	0	0	0	0	0	0	0
802	Malibu	0	0	0	0	0	0	0
803	Malibu	0	0	0	0	0	0	0
804	Malibu	0	0	0	0	0	0	0
805	Malibu	0	0	0	0	0	0	0
806	Manhattan Beach	0	0	0	0	0	0	0
807	Manhattan Beach	0	0	0	0	0	0	0
808	Manhattan Beach	0	0	0	0	0	0	0
809	Manhattan Beach	1	0	0	0	0	0	0
810	Manhattan Beach	0	0	0	0	0	0	0
811	Manhattan Beach	0	0	0	0	0	0	0
812	Manhattan Beach	0	0	0	0	0	0	0
813	Manhattan Beach	0	0	0	0	0	0	0
814	Manhattan Beach	0	0	0	0	0	0	0
815	Manhattan Beach	0	0	0	0	0	0	0
816	Manhattan Beach	0	0	0	1	0	0	0
817	Manhattan Beach	1	0	0	0	0	0	0
818	Manhattan Beach	0	0	0	0	0	0	0
819	Manhattan Beach	0	0	0	0	0	0	0
820	Manhattan Beach	0	0	0	0	0	0	0
821	Manhattan Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
822	Manhattan Beach	0	0	0	0	0	0	0
823	Manhattan Beach	1	0	0	0	0	0	0
824	Manhattan Beach	1	0	0	0	0	0	0
825	Manhattan Beach	0	0	0	0	0	0	0
826	Manhattan Beach	0	0	0	0	0	0	0
827	Manhattan Beach	1	0	0	0	0	0	0
828	Manhattan Beach	0	0	0	0	0	0	0
829	Manhattan Beach	0	0	0	0	0	0	0
830	Manhattan Beach	0	0	0	0	0	0	0
831	Manhattan Beach	0	0	0	0	0	0	0
832	Manhattan Beach	0	0	0	1	0	0	0
833	Monrovia	0	0	0	0	0	0	0
834	Monrovia	0	0	0	0	0	0	0
835	Monterey Park	0	0	0	0	0	0	0
836	Monterey Park	0	0	0	0	0	0	0
837	Monterey Park	0	0	0	0	0	0	0
838	Monterey Park	0	0	0	0	0	0	0
839	Monterey Park	0	0	0	0	0	0	0
840	Monterey Park	0	0	0	1	0	0	0
841	Monterey Park	0	0	0	0	0	0	0
842	Monterey Park	0	0	0	0	0	0	0
843	Monterey Park	0	0	0	0	0	0	0
844	Monterey Park	0	0	0	0	0	0	0
845	Monterey Park	0	0	0	0	0	0	0
846	Monterey Park	0	0	0	0	0	0	0
847	Monterey Park	0	0	0	0	0	0	0
848	Monterey Park	0	0	0	0	0	0	0
849	Monterey Park	0	0	0	0	0	0	0
850	Monterey Park	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
851	Monterey Park	0	0	0	0	0	0	0
852	Monterey Park	0	0	0	0	0	0	0
853	Monterey Park	0	0	0	0	0	0	0
854	Monterey Park	0	0	0	1	0	0	0
855	Monterey Park	0	0	0	0	0	0	0
856	Monterey Park	0	0	0	0	0	0	0
857	Monterey Park	0	0	0	0	0	0	0
858	Monterey Park	0	0	0	0	0	0	0
859	Monterey Park	0	0	0	0	0	0	0
860	Monterey Park	1	0	0	0	0	0	0
861	Monterey Park	0	0	0	0	0	0	0
862	Monterey Park	0	0	0	0	0	0	0
863	Monterey Park	0	0	0	0	0	0	0
864	Monterey Park	0	0	0	0	0	0	0
865	Monterey Park	0	0	0	0	0	0	0
866	Monterey Park	0	0	0	1	0	0	0
867	Monterey Park	0	0	0	0	0	0	0
868	Monterey Park	0	0	0	0	0	0	0
869	Monterey Park	0	0	0	0	0	0	0
870	Monterey Park	0	0	0	0	0	0	0
871	Monterey Park	0	0	0	0	0	0	0
872	Monterey Park	0	0	0	0	0	0	0
873	Monterey Park	0	0	0	0	0	0	0
874	Monterey Park	0	0	0	1	0	0	0
875	Monterey Park	0	0	0	0	0	0	0
876	Monterey Park	0	0	0	0	0	0	0
877	Monterey Park	0	0	0	1	0	0	0
878	Monterey Park	0	0	0	0	0	0	0
879	Monterey Park	0	0	0	0	0	0	0
880	Monterey Park	0	0	0	0	0	0	0
881	Monterey Park	0	0	0	0	0	0	0
882	Monterey Park	0	0	0	0	0	0	0
883	Monterey Park	0	0	0	0	0	0	0
884	Monterey Park	0	0	0	0	0	0	0
885	Monterey Park	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
886	Monterey Park	0	0	0	0	0	0	0
887	Norwalk	0	0	0	0	0	0	0
888	Norwalk	0	0	0	0	0	0	0
889	Norwalk	0	0	0	0	0	0	0
890	Norwalk	0	0	0	0	0	0	0
891	Norwalk	0	0	0	0	0	0	0
892	Norwalk	0	0	0	0	0	0	0
893	Norwalk	0	0	0	0	0	0	0
894	Norwalk	1	0	0	0	0	0	0
895	Norwalk	0	0	0	0	0	0	0
896	Norwalk	0	0	0	0	0	0	0
897	Norwalk	0	0	0	0	0	0	0
898	Norwalk	0	0	0	0	0	0	0
899	Norwalk	0	0	0	0	0	0	0
900	Norwalk	0	0	0	0	0	0	0
901	Norwalk	0	0	0	0	0	0	0
902	Norwalk	0	0	0	0	0	0	0
903	Norwalk	0	0	0	0	0	0	0
904	Norwalk	0	0	0	0	0	0	0
905	Norwalk	0	0	0	0	0	0	0
906	Norwalk	0	0	0	0	0	0	0
907	Norwalk	1	0	0	0	0	0	0
908	Norwalk	0	0	0	0	0	0	0
909	Norwalk	0	0	0	0	0	0	0
910	Norwalk	0	0	0	0	0	0	0
911	Norwalk	0	0	0	0	0	0	0
912	Norwalk	0	0	0	0	0	0	0
913	Norwalk	0	0	0	0	0	0	0
914	Norwalk	0	0	0	0	0	0	0
915	Norwalk	0	0	0	0	0	0	0
916	Norwalk	0	0	0	0	0	0	0
917	Norwalk	0	0	0	0	0	0	0
918	Norwalk	0	0	0	0	0	0	0
919	Norwalk	0	0	0	0	0	0	0
920	Norwalk	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
921	Palos Verdes Estates	0	0	0	0	0	0	0
922	Palos Verdes Estates	0	0	0	0	0	0	0
923	Palos Verdes Estates	0	0	0	0	0	0	0
924	Palos Verdes Estates	0	0	0	0	0	0	0
925	Palos Verdes Estates	1	0	0	0	0	0	0
926	Palos Verdes Estates	0	0	0	0	0	0	0
927	Pasadena	0	0	0	0	0	0	0
928	Pasadena	0	0	0	0	0	0	0
929	Pasadena	0	0	0	0	0	0	0
930	Pasadena	0	0	0	1	0	0	0
931	Pasadena	1	0	0	0	0	0	0
932	Pasadena	0	0	0	0	0	0	0
933	Pasadena	1	0	0	0	0	0	0
934	Pasadena	0	0	0	0	0	0	0
935	Pasadena	0	0	0	0	0	0	0
936	Pasadena	0	0	0	0	0	0	0
937	Pasadena	0	0	0	0	0	0	0
938	Pasadena	0	0	0	0	0	0	0
939	Pasadena	0	0	0	0	0	0	0
940	Pasadena	0	0	0	0	0	0	0
941	Pasadena	0	0	0	0	0	0	0
942	Pasadena	0	0	0	0	0	0	0
943	Pasadena	0	0	0	0	0	0	0
944	Pasadena	0	0	0	0	0	0	0
945	Pasadena	0	0	0	0	0	0	0
946	Pasadena	0	0	0	0	0	0	0
947	Pasadena	0	0	0	0	0	0	0
948	Pasadena	0	0	0	0	0	0	0
949	Pasadena	0	0	0	0	0	0	0
950	Pasadena	1	0	0	0	0	0	0
951	Pico Rivera	0	0	0	0	0	0	0
952	Pico Rivera	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
953	Pico Rivera	0	0	0	0	0	0	0
954	Pico Rivera	0	0	0	1	0	0	0
955	Pico Rivera	0	0	0	0	0	0	0
956	Pico Rivera	0	0	0	0	0	0	0
957	Pico Rivera	0	0	0	0	0	0	0
958	Pico Rivera	0	0	0	0	0	0	0
959	Pico Rivera	0	0	0	0	0	0	0
960	Pico Rivera	0	0	0	0	0	0	0
961	Pico Rivera	0	0	0	0	0	0	0
962	Pico Rivera	0	0	0	0	0	0	0
963	Pico Rivera	0	0	0	0	0	0	0
964	Pico Rivera	0	0	0	0	0	0	0
965	Pico Rivera	0	0	0	0	0	0	0
966	Pico Rivera	0	0	0	0	0	0	0
967	Pico Rivera	0	0	0	0	0	0	0
968	Pico Rivera	0	0	0	0	0	0	0
969	Pico Rivera	0	0	0	0	0	0	0
970	Pico Rivera	0	0	0	0	0	0	0
971	Pico Rivera	1	0	0	0	0	0	0
972	Pico Rivera	0	0	0	0	0	0	0
973	Pico Rivera	0	0	0	0	0	0	0
974	Pico Rivera	0	0	0	0	0	0	0
975	Pico Rivera	0	0	0	0	0	0	0
976	Pico Rivera	0	0	0	0	0	0	0
977	Pico Rivera	0	0	0	0	0	0	0
978	Pico Rivera	0	0	0	0	0	0	0
979	Pico Rivera	0	0	0	0	0	0	0
980	Pico Rivera	0	0	0	0	0	0	0
981	Rancho Palos Verdes	1	0	0	0	0	0	0
982	Rancho Palos Verdes	0	0	0	0	0	0	0
983	Rancho Palos Verdes	0	0	0	0	0	0	0
984	Rancho Palos Verdes	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
985	Rancho Palos Verdes	0	0	0	0	0	0	0
986	Rancho Palos Verdes	0	0	0	0	0	0	0
987	Rancho Palos Verdes	1	0	0	0	0	0	0
988	Rancho Palos Verdes	0	0	0	0	0	0	0
989	Rancho Palos Verdes	0	0	0	0	0	0	0
990	Rancho Palos Verdes	0	0	0	0	0	0	0
991	Rancho Palos Verdes	0	0	0	0	0	0	0
992	Rancho Palos Verdes	0	0	0	0	0	0	0
993	Rancho Palos Verdes	0	0	0	0	0	0	0
994	Rancho Palos Verdes	0	0	0	1	0	0	0
995	Rancho Palos Verdes	1	0	0	0	0	0	0
996	Redondo Beach	0	0	0	0	0	0	0
997	Redondo Beach	1	0	0	0	0	0	0
998	Redondo Beach	0	0	0	0	0	0	0
999	Redondo Beach	1	0	0	0	0	0	0
1000	Redondo Beach	0	0	0	0	0	0	0
1001	Redondo Beach	0	0	0	0	0	0	0
1002	Redondo Beach	0	0	0	0	0	0	0
1003	Redondo Beach	0	0	0	0	0	0	0
1004	Redondo Beach	1	0	0	0	0	0	0
1005	Redondo Beach	0	0	0	0	0	0	0
1006	Redondo Beach	0	0	0	0	0	0	0
1007	Redondo Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1008	Redondo Beach	0	0	0	0	0	0	0
1009	Redondo Beach	0	0	0	0	0	0	0
1010	Redondo Beach	0	0	0	0	0	0	0
1011	Redondo Beach	1	0	0	0	0	0	0
1012	Redondo Beach	0	0	0	0	0	0	0
1013	Redondo Beach	0	0	0	0	0	0	0
1014	Redondo Beach	0	0	0	0	0	0	0
1015	Redondo Beach	0	0	0	0	0	0	0
1016	Redondo Beach	0	0	0	0	0	0	0
1017	Redondo Beach	0	0	0	0	0	0	0
1018	Redondo Beach	0	0	0	0	0	0	0
1019	Redondo Beach	0	0	0	0	0	0	0
1020	Redondo Beach	0	0	0	0	0	0	0
1021	Redondo Beach	0	0	0	0	0	0	0
1022	Redondo Beach	0	0	0	0	0	0	0
1023	Redondo Beach	0	0	0	0	0	0	0
1024	Redondo Beach	0	0	0	1	0	0	0
1025	Redondo Beach	0	0	0	0	0	0	0
1026	Redondo Beach	0	0	0	0	0	0	0
1027	Redondo Beach	0	0	0	0	0	0	0
1028	Redondo Beach	0	0	0	0	0	0	0
1029	Redondo Beach	1	0	0	0	0	0	0
1030	Redondo Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1031	Redondo Beach	1	0	0	0	0	0	0
1032	Redondo Beach	0	0	0	0	1	0	0
1033	Redondo Beach	0	0	0	0	0	0	0
1034	Redondo Beach	0	0	0	0	0	0	0
1035	Rolling Hills	0	0	0	0	0	0	0
1036	Rolling Hills	0	0	0	0	0	0	0
1037	Rolling Hills	0	0	0	0	0	0	0
1038	Rolling Hills	0	0	0	0	0	0	0
1039	Rolling Hills	0	0	0	0	0	0	0
1040	Rolling Hills	0	0	0	0	0	0	0
1041	Rolling Hills	0	0	0	0	0	0	0
1042	Rolling Hills	0	0	0	0	0	0	0
1043	Rolling Hills	0	0	0	0	0	0	0
1044	Rolling Hills	0	0	0	0	0	0	0
1045	Rolling Hills	0	0	0	0	0	0	0
1046	Rolling Hills Estates	0	0	0	0	0	0	0
1047	Rolling Hills Estates	1	0	0	0	0	0	0
1048	Rolling Hills Estates	0	0	0	1	0	0	0
1049	Rolling Hills Estates	0	0	0	0	0	0	0
1050	Rolling Hills Estates	0	0	0	0	0	0	0
1051	Rolling Hills Estates	0	0	0	0	0	0	0
1052	Rolling Hills Estates	0	0	0	0	0	0	0
1053	Rolling Hills Estates	0	0	0	0	0	0	0
1054	Rolling Hills Estates	0	0	0	0	0	0	0
1055	Rolling Hills Estates	0	0	0	0	0	0	0
1056	Rolling Hills Estates	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1057	Rolling Hills Estates	0	0	0	0	0	0	0
1058	Rolling Hills Estates	0	0	0	0	0	0	0
1059	Rolling Hills Estates	0	0	0	0	0	0	0
1060	Rolling Hills Estates	0	0	0	0	0	0	0
1061	Rolling Hills Estates	0	1	0	0	0	0	0
1062	Rolling Hills Estates	0	0	0	0	0	0	0
1063	Rolling Hills Estates	0	0	0	0	0	0	0
1064	Rolling Hills Estates	0	0	0	0	0	0	0
1065	Rolling Hills Estates	0	0	0	0	0	0	0
1066	Rolling Hills Estates	0	0	0	0	0	0	0
1067	Rolling Hills Estates	0	0	0	0	0	0	0
1068	Rolling Hills Estates	0	0	0	0	0	0	0
1069	Rolling Hills Estates	0	0	0	0	0	0	0
1070	Rolling Hills Estates	0	0	0	0	0	0	0
1071	Rolling Hills Estates	0	0	0	0	0	0	0
1072	Rolling Hills Estates	1	0	0	0	0	0	0
1073	Rolling Hills Estates	0	0	0	0	0	0	0
1074	Rolling Hills Estates	0	0	0	0	0	0	0
1075	Rolling Hills Estates	0	0	0	0	0	0	0
1076	Rolling Hills Estates	0	0	0	0	0	0	0
1077	Rolling Hills Estates	0	0	0	0	0	0	0
1078	Rolling Hills Estates	0	0	0	0	0	0	0
1079	Rolling Hills Estates	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1080	Rolling Hills Estates	0	0	0	0	0	0	0
1081	Rolling Hills Estates	0	0	0	0	0	0	0
1082	Rolling Hills Estates	0	0	0	0	0	0	0
1083	Rolling Hills Estates	0	0	0	0	0	0	0
1084	Rolling Hills Estates	0	0	0	0	0	0	0
1085	Rolling Hills Estates	0	0	0	0	0	0	0
1086	Rolling Hills Estates	0	0	0	0	0	0	0
1087	Rolling Hills Estates	0	0	0	1	0	0	0
1088	San Dimas	0	0	0	0	0	0	0
1089	San Dimas	0	0	0	0	0	0	0
1090	San Dimas	0	0	0	0	0	0	0
1091	San Dimas	0	0	0	0	0	0	0
1092	San Dimas	0	0	0	0	0	0	0
1093	San Dimas	0	0	0	0	0	0	0
1094	San Dimas	0	0	0	0	0	0	0
1095	San Dimas	0	0	0	0	0	0	0
1096	San Dimas	0	0	0	0	0	0	0
1097	San Dimas	1	0	0	0	0	0	0
1098	San Dimas	0	0	0	0	0	0	0
1099	San Dimas	0	0	0	0	0	0	0
1100	San Dimas	0	0	0	0	0	0	0
1101	San Dimas	0	0	0	0	0	0	0
1102	San Dimas	1	0	0	0	0	0	0
1103	San Dimas	1	0	0	0	0	0	0
1104	San Dimas	0	0	0	0	0	0	0
1105	San Dimas	0	0	0	0	0	0	0
1106	San Dimas	0	0	0	0	0	0	0
1107	San Fernando	0	0	0	0	0	0	0
1108	San Fernando	0	0	0	0	0	0	0
1109	San Fernando	0	0	0	0	0	0	0
1110	San Fernando	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1111	San Fernando	1	0	0	0	0	0	0
1112	San Fernando	0	0	0	0	0	0	0
1113	San Fernando	0	0	0	0	0	0	0
1114	San Fernando	0	0	0	0	0	0	0
1115	San Fernando	0	0	0	0	0	0	0
1116	San Fernando	0	0	0	0	0	0	0
1117	San Fernando	0	0	0	0	0	0	0
1118	San Fernando	0	0	0	0	0	0	0
1119	San Fernando	0	0	0	0	0	0	0
1120	San Fernando	0	0	0	0	0	0	0
1121	San Fernando	0	0	0	0	0	0	0
1122	San Fernando	0	0	0	0	0	0	0
1123	San Fernando	0	0	0	0	0	0	0
1124	San Gabriel	0	0	0	0	0	0	0
1125	San Gabriel	0	0	0	0	0	0	0
1126	San Gabriel	0	0	0	0	0	0	0
1127	San Gabriel	0	0	0	1	0	0	0
1128	San Gabriel	0	0	0	0	0	0	0
1129	San Gabriel	0	0	0	0	0	0	0
1130	San Gabriel	0	0	0	0	0	0	0
1131	San Gabriel	0	0	0	0	0	0	0
1132	San Gabriel	0	0	0	0	0	0	0
1133	San Gabriel	0	0	0	0	0	0	0
1134	San Gabriel	0	0	0	0	0	0	0
1135	San Gabriel	0	0	0	0	0	0	0
1136	San Gabriel	1	0	0	0	0	0	0
1137	San Gabriel	0	0	0	1	0	0	0
1138	San Gabriel	0	0	0	0	0	0	0
1139	San Gabriel	0	0	0	0	0	0	0
1140	San Gabriel	0	0	0	0	0	0	0
1141	San Gabriel	0	0	0	0	0	0	0
1142	San Gabriel	0	0	0	0	0	0	0
1143	San Gabriel	0	0	0	0	0	0	0
1144	San Gabriel	0	0	0	0	0	0	0
1145	San Gabriel	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1146	San Gabriel	0	0	0	0	0	0	0
1147	San Gabriel	0	0	0	0	0	0	0
1148	San Gabriel	0	0	0	0	0	0	0
1149	San Gabriel	0	0	0	0	0	0	0
1150	San Gabriel	0	0	0	0	0	0	0
1151	San Gabriel	0	0	0	0	0	0	0
1152	San Gabriel	0	0	0	0	0	0	0
1153	San Gabriel	0	0	0	0	0	0	0
1154	San Gabriel	0	0	0	0	0	0	0
1155	San Gabriel	0	0	0	0	0	0	0
1156	San Gabriel	0	0	0	0	0	0	0
1157	San Gabriel	0	0	0	0	0	0	0
1158	San Gabriel	0	0	0	0	0	0	0
1159	San Gabriel	0	0	0	0	0	0	0
1160	San Gabriel	0	0	0	0	0	0	0
1161	San Gabriel	0	0	0	0	0	0	0
1162	San Gabriel	1	0	0	0	0	0	0
1163	San Gabriel	0	0	0	0	0	0	0
1164	San Gabriel	0	0	0	0	0	0	0
1165	San Gabriel	0	0	0	0	0	0	0
1166	San Gabriel	0	0	0	0	0	0	0
1167	San Gabriel	0	0	0	0	0	0	0
1168	San Gabriel	0	0	0	0	0	0	0
1169	San Gabriel	0	0	0	0	0	0	0
1170	San Marino	0	0	0	0	0	0	0
1171	San Marino	0	0	0	0	0	0	0
1172	San Marino	0	0	0	0	0	0	0
1173	San Marino	0	0	0	0	0	0	0
1174	San Marino	0	0	0	0	0	0	0
1175	San Marino	0	0	0	0	0	0	0
1176	San Marino	0	0	0	0	0	0	0
1177	San Marino	0	0	0	0	0	0	0
1178	San Marino	0	0	0	0	0	0	0
1179	San Marino	1	0	0	0	0	0	0
1180	San Marino	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1181	San Marino	0	0	0	0	0	0	0
1182	San Marino	0	0	0	0	0	0	0
1183	San Marino	0	0	0	0	0	0	0
1184	San Marino	0	0	0	0	0	0	0
1185	San Marino	0	0	0	0	0	0	0
1186	San Marino	0	0	0	0	0	0	0
1187	San Marino	0	0	0	0	0	0	0
1188	San Marino	0	0	0	0	0	0	0
1189	San Marino	0	0	0	0	0	0	0
1190	San Marino	0	0	0	0	0	0	0
1191	San Marino	0	0	0	0	0	0	0
1192	San Marino	0	0	0	0	0	0	0
1193	Santa Clarita	0	0	0	0	0	0	0
1194	Santa Clarita	1	0	0	0	0	0	0
1195	Santa Clarita	0	0	0	0	0	0	0
1196	Santa Clarita	0	0	0	0	0	0	0
1197	Santa Clarita	0	0	0	0	0	0	0
1198	Santa Clarita	0	0	0	0	0	0	0
1199	Santa Clarita	0	0	0	0	0	0	0
1200	Santa Clarita	0	0	0	0	0	0	0
1201	Santa Clarita	0	0	0	0	0	0	0
1202	Santa Clarita	0	0	0	0	0	0	0
1203	Santa Clarita	0	0	0	0	0	0	0
1204	Santa Clarita	0	0	0	0	0	0	0
1205	Santa Clarita	0	0	0	0	0	0	0
1206	Santa Clarita	0	0	0	0	0	0	0
1207	Santa Clarita	0	0	0	0	0	0	0
1208	Santa Clarita	0	0	0	0	0	0	0
1209	Santa Clarita	0	0	0	0	0	0	0
1210	Santa Clarita	0	0	0	0	0	0	0
1211	Santa Clarita	0	0	0	0	0	0	0
1212	Santa Clarita	0	0	0	0	0	0	0
1213	Santa Clarita	0	0	0	0	0	0	0
1214	Santa Clarita	0	0	0	1	0	0	0
1215	Santa Clarita	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1216	Santa Fe Springs	0	0	0	0	0	0	0
1217	Santa Fe Springs	0	0	0	0	0	0	0
1218	Santa Fe Springs	1	0	0	0	0	0	0
1219	Santa Fe Springs	0	0	0	0	0	0	0
1220	Santa Fe Springs	0	0	0	0	0	0	0
1221	Santa Fe Springs	0	0	0	0	0	0	0
1222	Santa Fe Springs	0	0	0	0	0	0	0
1223	Santa Fe Springs	0	0	0	0	0	0	0
1224	Santa Fe Springs	0	0	0	0	0	0	0
1225	Santa Fe Springs	0	0	0	0	0	0	0
1226	Santa Fe Springs	0	0	0	0	0	0	0
1227	Santa Fe Springs	0	0	0	0	0	0	0
1228	Santa Fe Springs	0	0	0	0	0	0	0
1229	Santa Fe Springs	0	0	0	0	0	0	0
1230	Santa Fe Springs	0	0	0	1	0	0	0
1231	Santa Fe Springs	0	0	0	1	0	0	0
1232	Santa Fe Springs	0	0	0	0	0	0	0
1233	Santa Fe Springs	0	0	0	0	0	0	0
1234	Santa Fe Springs	0	0	0	0	0	0	0
1235	Santa Fe Springs	0	0	0	0	0	0	0
1236	Santa Fe Springs	0	0	0	0	0	0	0
1237	Santa Fe Springs	0	0	0	0	0	0	0
1238	Santa Fe Springs	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1239	Santa Fe Springs	0	0	0	0	0	0	0
1240	Santa Fe Springs	0	0	0	0	0	0	0
1241	Santa Fe Springs	0	0	0	0	0	0	0
1242	Santa Fe Springs	0	0	0	0	0	0	0
1243	Santa Fe Springs	0	0	0	0	0	0	0
1244	Santa Fe Springs	0	0	0	0	0	0	0
1245	Santa Monica	1	0	0	0	0	0	0
1246	Santa Monica	0	0	0	1	0	0	0
1247	Santa Monica	0	0	0	0	0	0	0
1248	Santa Monica	0	0	0	0	0	0	0
1249	Santa Monica	0	0	0	0	0	0	0
1250	Santa Monica	0	0	0	0	0	0	0
1251	Santa Monica	0	0	0	0	0	0	0
1252	Santa Monica	1	0	0	0	0	0	0
1253	Santa Monica	0	0	0	0	0	0	0
1254	Santa Monica	0	0	0	0	0	0	0
1255	Santa Monica	1	0	0	0	0	0	0
1256	Santa Monica	0	0	0	0	0	0	0
1257	Santa Monica	1	0	0	0	0	0	0
1258	Santa Monica	0	0	0	0	0	0	0
1259	Santa Monica	1	0	0	0	0	0	0
1260	Santa Monica	0	0	0	0	0	0	0
1261	Santa Monica	0	0	0	0	0	0	0
1262	Santa Monica	0	0	0	0	0	0	0
1263	Santa Monica	0	0	0	0	0	0	0
1264	Santa Monica	0	0	0	0	0	0	0
1265	Santa Monica	0	0	0	0	0	0	0
1266	Santa Monica	0	0	0	0	0	0	0
1267	Santa Monica	0	0	0	0	0	0	0
1268	Sierra Madre	1	0	0	0	0	0	0
1269	Sierra Madre	1	0	0	0	0	0	0
1270	Sierra Madre	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1271	Sierra Madre	0	0	0	0	0	0	0
1272	Sierra Madre	0	0	0	0	0	0	0
1273	Sierra Madre	0	0	0	0	0	0	0
1274	Sierra Madre	0	0	0	0	0	0	0
1275	Sierra Madre	0	0	0	0	0	0	0
1276	Sierra Madre	0	0	0	0	0	0	0
1277	Sierra Madre	0	0	0	0	0	0	0
1278	Sierra Madre	0	0	0	0	0	0	0
1279	Sierra Madre	0	0	0	0	0	0	0
1280	Sierra Madre	0	0	0	0	0	0	0
1281	Sierra Madre	0	0	0	0	0	0	0
1282	Sierra Madre	0	0	0	0	0	0	0
1283	Sierra Madre	1	0	0	0	0	0	0
1284	Sierra Madre	0	0	0	0	0	0	0
1285	Sierra Madre	0	0	0	0	0	0	0
1286	Sierra Madre	0	0	0	0	0	0	0
1287	Sierra Madre	0	0	0	0	0	0	0
1288	Sierra Madre	1	0	0	0	0	0	0
1289	Signal Hill	0	1	0	0	0	0	0
1290	Signal Hill	0	0	0	0	0	0	0
1291	Signal Hill	0	0	0	0	0	0	0
1292	Signal Hill	0	0	0	0	0	0	0
1293	Signal Hill	1	0	0	0	0	0	0
1294	Signal Hill	0	0	0	0	0	0	0
1295	Signal Hill	1	0	0	0	0	0	0
1296	Signal Hill	1	0	0	0	0	0	0
1297	Signal Hill	0	0	0	0	0	0	0
1298	Signal Hill	0	0	0	0	0	0	0
1299	Signal Hill	0	0	0	0	0	0	0
1300	Signal Hill	0	0	0	0	0	0	0
1301	Signal Hill	0	0	0	0	0	0	0
1302	Signal Hill	0	0	0	0	0	0	0
1303	Signal Hill	0	0	0	0	0	0	0
1304	Signal Hill	0	0	0	0	0	0	0
1305	Signal Hill	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1306	Signal Hill	0	0	0	0	0	0	0
1307	Signal Hill	0	0	0	0	0	0	0
1308	Signal Hill	0	0	0	0	0	0	0
1309	Signal Hill	0	0	0	0	0	0	0
1310	Signal Hill	0	0	0	0	0	0	0
1311	Signal Hill	0	0	0	0	0	0	0
1312	Signal Hill	0	0	0	0	0	0	0
1313	Signal Hill	0	0	0	0	0	0	0
1314	Signal Hill	0	0	0	0	0	0	0
1315	Signal Hill	0	0	0	0	0	0	0
1316	Signal Hill	0	0	0	0	0	0	0
1317	Signal Hill	0	0	0	0	0	0	0
1318	Signal Hill	0	0	0	0	0	0	0
1319	South Pasadena	0	0	0	0	0	0	0
1320	South Pasadena	0	0	0	0	0	0	0
1321	South Pasadena	0	0	0	0	0	0	0
1322	South Pasadena	0	0	0	0	0	0	0
1323	South Pasadena	1	0	0	0	0	0	0
1324	South Pasadena	0	0	0	0	0	0	0
1325	South Pasadena	1	0	0	0	0	0	0
1326	South Pasadena	0	0	0	0	0	0	0
1327	South Pasadena	0	0	0	0	0	0	0
1328	South Pasadena	0	0	0	0	0	0	0
1329	South Pasadena	0	0	0	0	0	0	0
1330	South Pasadena	0	0	0	0	0	0	0
1331	South Pasadena	0	0	0	0	0	0	0
1332	South Pasadena	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1333	South Pasadena	0	0	0	0	0	0	0
1334	South Pasadena	0	0	0	0	0	0	0
1335	South Pasadena	0	0	0	0	0	0	0
1336	South Pasadena	0	0	0	0	0	0	0
1337	South Pasadena	0	0	0	0	0	0	0
1338	South Pasadena	0	0	0	0	0	0	0
1339	South Pasadena	0	0	0	0	0	0	0
1340	South Pasadena	0	0	0	0	0	0	0
1341	South Pasadena	0	0	0	0	0	0	0
1342	South Pasadena	0	0	0	0	0	0	0
1343	Temple City	0	0	0	0	0	0	0
1344	Temple City	0	0	0	0	0	0	0
1345	Temple City	0	0	0	0	0	0	0
1346	Temple City	0	0	0	0	0	0	0
1347	Temple City	0	0	0	0	0	0	0
1348	Temple City	0	0	0	0	0	0	0
1349	Temple City	0	0	0	0	0	0	0
1350	Temple City	0	0	0	0	0	0	0
1351	Temple City	0	0	0	0	0	0	0
1352	Temple City	1	0	0	0	0	0	0
1353	Temple City	0	0	0	0	0	0	0
1354	Temple City	0	0	0	0	0	0	0
1355	Temple City	1	0	0	0	0	0	0
1356	Temple City	0	0	0	0	0	0	0
1357	Temple City	0	0	0	0	0	0	0
1358	Temple City	0	0	0	0	0	0	0
1359	Temple City	0	0	0	0	0	0	0
1360	Temple City	0	0	0	0	0	0	0
1361	Temple City	0	0	0	0	0	0	0
1362	Temple City	0	0	0	1	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1363	Temple City	0	0	0	0	0	0	0
1364	Temple City	0	0	0	0	0	0	0
1365	Temple City	0	0	0	0	0	0	0
1366	Temple City	0	0	0	0	0	0	0
1367	Temple City	0	0	0	0	0	0	0
1368	Temple City	0	0	0	0	0	0	0
1369	Temple City	0	0	0	0	0	0	0
1370	Temple City	0	0	0	0	0	0	0
1371	Temple City	0	0	0	0	0	0	0
1372	Temple City	0	0	0	0	0	0	0
1373	Temple City	0	0	0	0	0	0	0
1374	Temple City	0	0	0	0	0	0	0
1375	Temple City	0	0	0	0	0	0	0
1376	Temple City	0	0	0	0	0	0	0
1377	Temple City	0	0	0	0	0	0	0
1378	Temple City	0	0	0	0	0	0	0
1379	Temple City	0	0	0	0	0	0	0
1380	Temple City	0	0	0	1	0	0	0
1381	Temple City	0	0	0	0	0	0	0
1382	Temple City	0	0	0	0	0	0	0
1383	Torrance	0	0	0	1	0	0	0
1384	Torrance	0	0	0	0	0	0	0
1385	Torrance	1	0	0	0	0	0	0
1386	Torrance	0	0	0	0	0	0	0
1387	Torrance	0	0	0	0	0	0	0
1388	Torrance	0	0	0	0	0	0	0
1389	Torrance	0	0	0	0	0	0	0
1390	Torrance	0	0	0	0	0	0	0
1391	Torrance	0	0	0	0	0	0	0
1392	Torrance	0	0	0	0	0	0	0
1393	Torrance	0	0	0	0	0	0	0
1394	Torrance	0	0	0	0	0	0	0
1395	Torrance	1	0	0	0	0	0	0
1396	Torrance	0	0	0	0	0	0	0
1397	Torrance	0	0	0	0	0	0	0

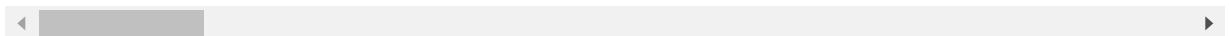
	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1398	Torrance	0	0	0	0	0	0	0
1399	Torrance	0	0	0	0	0	0	0
1400	Torrance	0	0	0	0	0	0	0
1401	Torrance	0	0	0	0	0	0	0
1402	Torrance	0	0	0	0	0	0	0
1403	Torrance	0	0	0	1	0	0	0
1404	Torrance	0	0	0	0	0	0	0
1405	Torrance	0	0	0	0	0	0	0
1406	Torrance	0	0	0	0	0	0	0
1407	Walnut	0	0	0	0	0	0	0
1408	Walnut	0	0	0	0	0	0	0
1409	Walnut	0	0	0	0	0	0	0
1410	Walnut	0	0	0	0	0	0	0
1411	Walnut	0	0	0	0	0	0	0
1412	Walnut	0	0	0	0	0	0	0
1413	Walnut	0	0	0	0	0	0	0
1414	Walnut	0	0	0	1	0	0	0
1415	Walnut	0	0	0	0	0	0	0
1416	Walnut	0	0	0	0	0	0	0
1417	Walnut	0	0	0	0	0	0	0
1418	Walnut	0	0	0	0	0	0	0
1419	Walnut	0	0	0	0	0	0	0
1420	Walnut	0	0	0	0	0	0	0
1421	Walnut	0	0	0	0	0	0	0
1422	Walnut	0	0	0	0	0	0	0
1423	Walnut	0	0	0	0	0	0	0
1424	Walnut	0	0	0	0	0	0	0
1425	Walnut	0	0	0	0	0	0	0
1426	Walnut	0	0	0	0	0	0	0
1427	Walnut	0	0	0	0	0	0	0
1428	Walnut	0	0	0	0	0	0	0
1429	Walnut	0	0	0	0	0	0	0
1430	Walnut	0	0	0	0	0	0	0
1431	Walnut	0	0	0	0	0	0	0
1432	Walnut	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1433	Walnut	0	0	0	0	0	0	0
1434	Walnut	1	0	0	0	0	0	0
1435	West Covina	0	0	0	0	0	0	0
1436	West Covina	0	0	0	0	0	0	0
1437	West Covina	0	0	0	0	0	0	0
1438	West Covina	0	0	0	0	0	0	0
1439	West Covina	0	0	0	0	0	0	0
1440	West Covina	0	0	0	0	0	0	0
1441	West Covina	0	0	0	0	0	0	0
1442	West Covina	0	0	0	0	0	0	0
1443	West Covina	0	0	0	0	0	0	0
1444	West Covina	0	0	0	0	0	0	0
1445	West Covina	1	0	0	0	0	0	0
1446	West Covina	0	0	0	0	0	0	0
1447	West Covina	0	0	0	0	0	0	0
1448	West Covina	0	0	0	0	0	0	0
1449	West Covina	0	0	0	0	0	0	0
1450	West Covina	0	0	0	0	0	0	0
1451	West Covina	0	0	0	0	0	0	0
1452	West Covina	0	0	0	0	0	0	0
1453	West Covina	0	0	0	0	0	0	0
1454	West Covina	0	0	0	0	0	0	0
1455	West Covina	0	0	0	1	0	0	0
1456	West Covina	0	0	0	1	0	0	0
1457	West Covina	0	0	0	1	0	0	0
1458	West Covina	0	0	0	0	0	0	0
1459	West Covina	0	0	0	0	0	0	0
1460	West Covina	0	0	0	0	0	0	0
1461	West Covina	0	0	0	0	0	0	0
1462	West Covina	0	0	0	0	0	0	0
1463	West Covina	0	0	0	0	0	0	0
1464	Westlake Village	0	0	0	0	0	0	0
1465	Westlake Village	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1466	Westlake Village	0	0	0	0	0	0	0
1467	Westlake Village	0	0	0	0	0	0	0
1468	Westlake Village	0	0	0	0	0	0	0
1469	Westlake Village	0	0	0	0	0	0	0
1470	Westlake Village	0	0	0	0	0	0	0
1471	Westlake Village	0	0	0	0	0	0	0
1472	Westlake Village	0	0	0	0	0	0	0
1473	Westlake Village	1	0	0	0	0	0	0
1474	Westlake Village	0	0	0	0	0	0	0
1475	Westlake Village	0	0	0	0	0	0	0
1476	Westlake Village	0	0	0	0	0	0	0
1477	Westlake Village	1	0	0	0	0	0	0
1478	Westlake Village	0	0	0	0	0	0	0
1479	Westlake Village	0	0	0	0	0	0	0
1480	Westlake Village	0	0	0	0	0	0	0
1481	Westlake Village	0	0	0	1	0	0	0
1482	Westlake Village	1	0	0	0	0	0	0
1483	Westlake Village	0	0	0	0	0	0	0
1484	Westlake Village	0	0	0	0	0	0	0
1485	Westlake Village	0	0	0	0	0	0	0
1486	Westlake Village	0	0	0	0	0	0	0
1487	Westlake Village	0	0	0	0	0	0	0
1488	Westlake Village	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1489	Westlake Village	0	0	0	0	0	0	0
1490	Westlake Village	0	0	0	0	0	0	0
1491	Westlake Village	0	0	0	0	0	0	0
1492	Westlake Village	0	0	0	0	0	0	0
1493	Westlake Village	0	0	0	0	0	0	0
1494	Westlake Village	0	0	0	0	0	0	0
1495	Westlake Village	0	0	0	0	0	0	0
1496	Westlake Village	0	0	0	0	0	0	0
1497	Westlake Village	1	0	0	0	0	0	0
1498	Westlake Village	1	0	0	0	0	0	0
1499	Westlake Village	0	0	0	0	0	0	0
1500	Westlake Village	0	0	0	0	0	0	0
1501	Whittier	1	0	0	0	0	0	0
1502	Whittier	1	0	0	0	0	0	0
1503	Whittier	0	0	0	0	0	0	0
1504	Whittier	0	0	0	0	0	0	0
1505	Whittier	0	0	0	0	0	0	0
1506	Whittier	0	0	0	0	0	0	0
1507	Whittier	0	0	0	0	0	0	0
1508	Whittier	1	0	0	0	0	0	0
1509	Whittier	0	0	0	0	0	0	0
1510	Whittier	0	0	0	0	0	0	0
1511	Whittier	0	0	0	0	0	0	0
1512	Whittier	0	0	0	0	0	0	0
1513	Whittier	0	0	0	0	0	0	0
1514	Whittier	0	0	0	0	0	0	0
1515	Whittier	0	0	0	0	0	0	0
1516	Whittier	0	0	0	0	0	0	0
1517	Whittier	0	0	0	0	0	0	0

Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1518	Whittier	0	0	0	0	0	0
1519	Whittier	0	0	0	0	0	0
1520	Whittier	0	0	0	0	0	0
1521	Whittier	0	0	0	0	0	0
1522	Whittier	0	0	0	0	0	0



In [44]: LA_onehot

Out[44]:

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1	Agoura Hills	0	0	0	0	0	0	0
2	Agoura Hills	0	0	0	0	0	0	0
3	Agoura Hills	0	0	0	0	0	0	0
4	Agoura Hills	0	0	0	0	0	0	0
5	Agoura Hills	0	0	0	0	0	0	0
6	Agoura Hills	1	0	0	0	0	0	0
7	Agoura Hills	0	0	0	0	0	0	0
8	Agoura Hills	0	0	0	0	0	0	0
9	Agoura Hills	0	0	0	0	0	0	0
10	Agoura Hills	0	0	0	0	0	0	0
11	Agoura Hills	0	0	0	0	0	0	0
12	Agoura Hills	0	0	0	0	0	0	0
13	Agoura Hills	0	0	0	0	0	0	0
14	Agoura Hills	0	0	0	0	0	0	0
15	Agoura Hills	0	0	0	0	0	0	0
16	Agoura Hills	0	0	0	0	0	0	0
17	Agoura Hills	0	0	0	0	0	0	0
18	Agoura Hills	0	0	0	0	0	0	0
19	Agoura Hills	0	0	0	0	0	0	0
20	Agoura Hills	0	0	0	0	0	0	0
21	Agoura Hills	0	0	0	0	0	0	0
22	Agoura Hills	0	0	0	0	0	0	0
23	Agoura Hills	0	0	0	0	0	0	0
24	Agoura Hills	0	0	0	1	0	0	0
25	Agoura Hills	0	0	0	0	0	0	0
26	Agoura Hills	0	0	0	0	0	0	0
27	Agoura Hills	0	0	0	0	0	0	0
28	Agoura Hills	0	0	0	0	0	0	0
29	Agoura Hills	0	0	0	0	0	0	0
30	Agoura Hills	0	0	0	0	0	0	0
31	Agoura Hills	0	0	0	0	0	0	0
32	Agoura Hills	0	0	0	0	0	0	0
33	Alhambra	0	0	0	0	0	0	0
34	Alhambra	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
35	Alhambra	0	0	0	0	0	0	0
36	Alhambra	0	0	0	0	0	0	0
37	Alhambra	0	0	0	0	0	0	0
38	Alhambra	0	0	0	0	0	0	0
39	Alhambra	0	0	0	0	0	0	0
40	Alhambra	0	0	0	0	0	0	0
41	Alhambra	0	0	0	0	0	0	0
42	Alhambra	0	0	0	0	0	0	0
43	Alhambra	0	0	0	0	0	0	0
44	Alhambra	0	0	0	0	0	0	0
45	Alhambra	0	0	0	0	0	0	0
46	Alhambra	0	0	0	0	0	0	0
47	Alhambra	0	0	0	0	0	0	0
48	Alhambra	0	0	0	0	0	0	0
49	Alhambra	0	0	0	0	0	0	0
50	Alhambra	0	0	0	0	0	0	0
51	Alhambra	0	0	0	0	0	0	0
52	Alhambra	0	0	0	0	0	0	0
53	Alhambra	0	0	0	0	0	0	0
54	Alhambra	0	0	0	0	0	0	0
55	Alhambra	0	0	0	0	0	0	0
56	Alhambra	0	0	0	0	0	0	0
57	Alhambra	0	0	0	0	0	0	0
58	Alhambra	0	0	0	0	0	0	0
59	Alhambra	1	0	0	0	0	0	0
60	Alhambra	0	0	0	0	0	0	0
61	Alhambra	0	0	0	0	0	0	0
62	Alhambra	0	0	0	0	0	0	0
63	Alhambra	0	0	0	0	0	0	0
64	Alhambra	0	0	0	0	0	0	0
65	Arcadia	0	0	0	0	0	0	0
66	Arcadia	0	0	0	0	0	0	0
67	Arcadia	0	0	0	0	0	0	0
68	Arcadia	0	0	0	0	0	0	0
69	Arcadia	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
70	Arcadia	1	0	0	0	0	0	0
71	Arcadia	0	0	0	0	0	0	0
72	Arcadia	0	0	0	0	0	0	0
73	Arcadia	0	0	0	0	0	0	0
74	Arcadia	0	0	0	0	0	0	0
75	Arcadia	0	0	0	0	0	0	0
76	Arcadia	0	0	0	0	0	0	0
77	Arcadia	0	0	0	0	0	0	0
78	Arcadia	0	0	0	0	0	0	0
79	Arcadia	0	0	0	0	0	0	0
80	Arcadia	1	0	0	0	0	0	0
81	Arcadia	0	0	0	0	0	0	0
82	Arcadia	0	0	0	1	0	0	0
83	Arcadia	0	0	0	0	0	0	0
84	Arcadia	0	0	0	0	0	0	0
85	Arcadia	0	0	0	0	0	0	0
86	Arcadia	0	0	0	0	0	0	0
87	Artesia	0	0	0	0	0	0	0
88	Artesia	0	0	0	0	0	0	0
89	Artesia	0	0	0	0	0	0	0
90	Artesia	0	0	0	0	0	0	0
91	Artesia	0	0	0	0	0	0	0
92	Artesia	0	0	0	0	0	0	0
93	Artesia	0	0	0	0	0	0	0
94	Artesia	0	0	0	0	0	0	0
95	Artesia	0	0	0	0	0	0	0
96	Artesia	0	0	0	0	0	0	0
97	Artesia	0	0	0	0	0	0	0
98	Artesia	0	0	0	0	0	0	0
99	Artesia	0	0	0	0	0	0	0
100	Artesia	1	0	0	0	0	0	0
101	Artesia	0	0	0	0	0	0	0
102	Artesia	0	0	0	0	0	0	0
103	Artesia	0	0	0	0	0	0	0
104	Artesia	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
105	Artesia	0	0	0	0	0	0	0
106	Artesia	0	0	0	0	0	0	0
107	Artesia	0	0	0	0	0	0	0
108	Artesia	0	0	0	0	0	0	0
109	Artesia	0	0	0	0	0	0	0
110	Artesia	0	0	0	0	0	0	0
111	Artesia	0	0	0	0	0	0	0
112	Artesia	0	0	0	0	0	0	0
113	Artesia	0	0	0	0	0	0	0
114	Artesia	0	0	0	0	0	0	0
115	Artesia	0	0	0	0	0	0	0
116	Artesia	0	0	0	0	0	0	0
117	Artesia	0	0	0	0	0	0	0
118	Artesia	0	0	0	1	0	0	0
119	Artesia	0	0	0	0	0	0	0
120	Artesia	0	0	0	0	0	0	0
121	Artesia	0	0	0	0	0	0	0
122	Artesia	0	0	0	0	0	0	0
123	Artesia	0	0	0	0	0	0	0
124	Artesia	0	0	0	0	0	0	0
125	Artesia	0	0	0	1	0	0	0
126	Artesia	0	0	0	0	0	0	0
127	Artesia	1	0	0	0	0	0	0
128	Azusa	0	0	0	0	0	0	0
129	Azusa	0	0	0	0	0	0	0
130	Azusa	1	0	0	0	0	0	0
131	Azusa	0	0	0	0	0	0	0
132	Azusa	0	0	0	0	0	0	0
133	Azusa	0	0	0	0	0	0	0
134	Azusa	1	0	0	0	0	0	0
135	Azusa	0	0	0	0	0	0	0
136	Azusa	1	0	0	0	0	0	0
137	Azusa	1	0	0	0	0	0	0
138	Azusa	0	0	0	0	0	0	0
139	Azusa	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
140	Azusa	0	0	0	0	0	0	0
141	Azusa	0	0	0	0	0	0	0
142	Azusa	0	0	0	0	0	0	0
143	Azusa	1	0	0	0	0	0	0
144	Azusa	0	0	0	0	0	0	0
145	Azusa	0	0	0	0	0	0	0
146	Azusa	0	0	0	0	0	0	0
147	Azusa	0	0	0	0	0	0	0
148	Azusa	0	0	0	0	0	0	0
149	Baldwin Park	0	0	0	0	0	0	0
150	Baldwin Park	0	0	0	0	0	0	0
151	Baldwin Park	0	0	0	0	0	0	0
152	Baldwin Park	0	0	0	0	0	0	0
153	Baldwin Park	0	0	0	0	0	0	0
154	Baldwin Park	0	0	0	0	0	0	0
155	Baldwin Park	0	0	0	0	0	0	0
156	Baldwin Park	0	0	0	0	0	0	0
157	Baldwin Park	0	0	0	0	0	0	0
158	Baldwin Park	0	0	0	0	0	0	0
159	Baldwin Park	0	0	0	1	0	0	0
160	Baldwin Park	0	0	0	0	0	0	0
161	Baldwin Park	0	0	0	0	0	0	0
162	Baldwin Park	0	0	0	0	0	0	0
163	Baldwin Park	0	0	0	0	0	0	0
164	Baldwin Park	0	0	0	0	0	0	0
165	Baldwin Park	0	0	0	0	0	0	0
166	Baldwin Park	0	0	0	0	0	0	0
167	Baldwin Park	0	0	0	0	0	0	0
168	Baldwin Park	0	0	0	0	0	0	0
169	Baldwin Park	0	0	0	0	0	0	0
170	Baldwin Park	0	0	0	0	0	0	0
171	Baldwin Park	0	0	0	0	0	0	0
172	Baldwin Park	0	0	0	0	0	0	0
173	Beverly Hills	0	0	0	0	0	0	0
174	Beverly Hills	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
175	Beverly Hills	1	0	0	0	0	0	0
176	Beverly Hills	0	0	0	0	0	0	0
177	Beverly Hills	1	0	0	0	0	0	0
178	Beverly Hills	0	0	0	0	0	0	0
179	Beverly Hills	0	0	0	0	0	0	0
180	Beverly Hills	0	0	0	0	0	0	0
181	Beverly Hills	0	0	0	0	0	0	0
182	Beverly Hills	0	0	0	0	0	0	0
183	Beverly Hills	0	0	0	0	0	0	0
184	Beverly Hills	1	0	0	0	0	0	0
185	Beverly Hills	1	0	0	0	0	0	0
186	Beverly Hills	0	0	0	0	0	0	0
187	Beverly Hills	0	0	0	0	0	0	0
188	Beverly Hills	0	0	0	0	0	0	0
189	Beverly Hills	0	0	0	0	0	0	0
190	Beverly Hills	0	0	0	0	0	0	0
191	Beverly Hills	1	0	0	0	0	0	0
192	Beverly Hills	0	0	0	0	0	0	0
193	Beverly Hills	1	0	0	0	0	0	0
194	Beverly Hills	0	0	0	0	0	0	0
195	Beverly Hills	0	0	0	0	0	0	0
196	Beverly Hills	1	0	0	0	0	0	0
197	Beverly Hills	0	0	0	0	0	0	0
198	Beverly Hills	0	0	0	0	0	0	0
199	Bradbury	0	0	0	0	0	0	0
200	Bradbury	0	0	0	0	0	0	0
201	Bradbury	0	0	0	0	0	0	0
202	Bradbury	0	0	0	1	0	0	0
203	Bradbury	0	0	0	0	0	0	0
204	Bradbury	0	0	0	0	0	0	0
205	Bradbury	0	0	0	0	0	0	0
206	Bradbury	0	0	0	0	0	0	0
207	Bradbury	0	0	0	0	0	0	0
208	Bradbury	0	0	0	0	0	0	0
209	Bradbury	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
210	Bradbury	0	0	0	0	0	0	0
211	Bradbury	0	0	0	0	0	0	0
212	Bradbury	0	0	0	0	0	0	0
213	Bradbury	0	0	0	0	0	0	0
214	Bradbury	0	0	0	0	0	0	0
215	Bradbury	0	0	0	0	0	0	0
216	Bradbury	0	0	0	0	0	0	0
217	Bradbury	0	0	0	0	0	0	0
218	Bradbury	0	0	0	0	0	0	0
219	Bradbury	0	0	0	0	0	0	0
220	Bradbury	0	0	0	0	0	0	0
221	Bradbury	0	0	0	0	0	0	0
222	Bradbury	1	0	0	0	0	0	0
223	Bradbury	0	0	0	0	0	0	0
224	Bradbury	0	0	0	0	0	0	0
225	Bradbury	1	0	0	0	0	0	0
226	Bradbury	0	0	0	0	0	0	0
227	Bradbury	0	0	0	0	0	0	0
228	Bradbury	0	0	0	0	0	0	0
229	Bradbury	0	0	0	0	0	0	0
230	Bradbury	0	0	0	0	0	0	0
231	Burbank	0	0	0	0	0	0	0
232	Burbank	0	0	0	0	0	0	0
233	Burbank	0	0	0	0	0	0	0
234	Burbank	1	0	0	0	0	0	0
235	Burbank	0	0	0	0	0	0	0
236	Burbank	0	0	0	0	0	0	0
237	Burbank	0	0	0	0	0	0	0
238	Burbank	0	0	0	0	0	0	0
239	Burbank	0	0	0	0	0	0	0
240	Burbank	0	0	0	0	0	0	0
241	Burbank	0	0	0	0	0	0	0
242	Burbank	1	0	0	0	0	0	0
243	Burbank	0	0	0	0	0	0	0
244	Burbank	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
245	Burbank	0	0	0	0	0	0	0
246	Burbank	0	0	0	0	0	0	0
247	Burbank	0	0	0	0	0	0	0
248	Burbank	1	0	0	0	0	0	0
249	Burbank	0	0	0	0	0	0	0
250	Burbank	0	0	0	0	0	0	0
251	Burbank	0	0	0	0	0	0	0
252	Burbank	0	0	0	1	0	0	0
253	Burbank	0	0	0	0	0	0	0
254	Calabasas	0	0	0	0	0	0	0
255	Calabasas	0	0	0	0	0	0	0
256	Calabasas	0	0	0	0	0	0	0
257	Calabasas	1	0	0	0	0	0	0
258	Calabasas	0	0	0	0	0	0	0
259	Calabasas	0	0	0	0	0	0	0
260	Calabasas	0	0	0	0	0	0	0
261	Calabasas	0	0	0	0	0	0	0
262	Calabasas	0	0	0	0	0	0	0
263	Cerritos	0	0	0	0	0	0	0
264	Cerritos	0	0	0	0	0	0	0
265	Cerritos	0	0	0	0	0	0	0
266	Cerritos	0	0	0	0	0	0	0
267	Cerritos	0	0	0	0	0	0	0
268	Cerritos	0	0	0	0	0	0	0
269	Cerritos	0	0	0	0	0	0	0
270	Cerritos	0	0	0	0	0	0	0
271	Cerritos	1	0	0	0	0	0	0
272	Cerritos	0	0	0	0	0	0	0
273	Cerritos	0	0	0	0	0	0	0
274	Cerritos	0	0	0	0	0	0	0
275	Cerritos	0	0	0	0	0	0	0
276	Cerritos	1	0	0	0	0	0	0
277	Cerritos	0	0	0	0	0	0	0
278	Cerritos	0	0	0	0	0	0	0
279	Cerritos	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
280	Cerritos	0	0	0	0	0	0	0
281	Cerritos	0	0	0	1	0	0	0
282	Cerritos	0	0	0	0	0	0	0
283	Cerritos	0	0	0	0	0	0	0
284	Cerritos	0	0	0	0	0	0	0
285	Cerritos	0	0	0	0	0	0	0
286	Cerritos	0	0	0	0	0	0	0
287	Cerritos	0	0	0	0	0	0	0
288	Cerritos	0	0	0	0	0	0	0
289	Cerritos	0	0	0	0	0	0	0
290	Cerritos	0	0	0	0	0	0	0
291	Cerritos	0	0	0	0	0	0	0
292	Cerritos	0	0	0	0	0	0	0
293	Cerritos	0	0	0	0	0	0	0
294	Cerritos	0	0	0	0	0	0	0
295	Cerritos	0	0	0	0	0	0	0
296	Cerritos	0	0	0	0	0	0	0
297	Cerritos	0	0	0	1	0	0	0
298	Cerritos	0	0	0	0	0	0	0
299	Cerritos	0	0	0	0	0	0	0
300	Claremont	0	0	0	0	0	0	0
301	Claremont	1	0	0	0	0	0	0
302	Claremont	1	0	0	0	0	0	0
303	Claremont	0	0	0	0	0	0	0
304	Claremont	0	0	0	0	0	0	0
305	Claremont	1	0	0	0	0	0	0
306	Claremont	0	0	0	0	0	0	0
307	Claremont	0	0	0	0	0	0	0
308	Claremont	0	0	0	0	0	0	0
309	Claremont	0	0	0	0	0	0	0
310	Claremont	1	0	0	0	0	0	0
311	Claremont	0	0	0	0	0	0	0
312	Claremont	0	0	0	0	0	0	0
313	Claremont	0	0	0	0	0	0	0
314	Claremont	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
315	Claremont	1	0	0	0	0	0	0
316	Claremont	0	0	0	0	0	0	0
317	Claremont	0	0	0	0	0	0	0
318	Claremont	0	0	0	0	0	0	0
319	Claremont	0	0	0	0	0	0	0
320	Claremont	0	0	0	0	0	0	0
321	Claremont	0	0	0	0	0	0	0
322	Claremont	0	0	0	0	0	0	0
323	Claremont	0	0	0	0	0	0	0
324	Claremont	0	0	0	0	0	0	0
325	Claremont	0	0	0	0	0	0	0
326	Claremont	0	0	0	0	0	0	0
327	Claremont	0	0	0	0	0	0	0
328	Claremont	0	0	0	0	0	0	0
329	Covina	1	0	0	0	0	0	0
330	Covina	0	0	0	0	0	0	0
331	Covina	1	0	0	0	0	0	0
332	Covina	0	0	0	0	0	0	0
333	Covina	1	0	0	0	0	0	0
334	Covina	0	0	0	0	0	0	0
335	Covina	0	0	0	0	0	0	0
336	Covina	0	0	0	0	0	0	0
337	Covina	0	0	0	0	0	0	0
338	Covina	0	0	0	1	0	0	0
339	Covina	0	0	0	0	0	0	0
340	Covina	0	0	0	0	0	0	0
341	Covina	0	0	0	0	0	0	0
342	Covina	0	0	0	0	0	0	0
343	Covina	0	0	0	0	0	0	0
344	Covina	0	0	0	0	0	0	0
345	Covina	0	0	0	0	0	0	0
346	Covina	0	0	0	0	0	0	0
347	Covina	0	0	0	0	0	0	0
348	Covina	0	0	0	0	0	0	0
349	Covina	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
350	Covina	0	0	0	0	0	0	0
351	Covina	0	0	0	0	0	0	0
352	Covina	1	0	0	0	0	0	0
353	Covina	0	0	0	0	0	0	0
354	Covina	1	0	0	0	0	0	0
355	Covina	1	0	0	0	0	0	0
356	Covina	0	0	0	0	0	0	0
357	Covina	0	0	0	0	0	0	0
358	Covina	1	0	0	0	0	0	0
359	Covina	0	0	0	0	0	0	0
360	Covina	0	0	0	0	0	0	0
361	Covina	0	0	0	0	0	0	0
362	Covina	0	0	0	0	0	0	0
363	Culver City	0	0	0	0	0	0	0
364	Culver City	0	0	0	0	0	0	0
365	Culver City	0	0	0	0	0	0	0
366	Culver City	0	0	0	0	0	0	0
367	Culver City	0	0	0	0	0	0	1
368	Culver City	0	0	0	0	0	0	0
369	Culver City	1	0	0	0	0	0	0
370	Culver City	0	0	0	0	0	0	0
371	Culver City	0	0	0	0	0	0	0
372	Culver City	0	0	0	0	0	0	0
373	Culver City	0	0	0	0	0	0	0
374	Culver City	0	0	0	0	0	0	0
375	Culver City	0	0	0	0	0	0	0
376	Culver City	0	0	0	1	0	0	0
377	Culver City	0	0	0	0	0	0	0
378	Culver City	0	0	0	0	0	0	0
379	Culver City	0	0	0	0	0	0	0
380	Culver City	0	0	0	0	0	0	0
381	Culver City	0	0	0	0	0	0	0
382	Culver City	0	0	0	0	0	0	0
383	Culver City	0	0	0	0	0	0	0
384	Culver City	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
385	Diamond Bar	1	0	0	0	0	0	0
386	Diamond Bar	0	0	0	0	0	0	0
387	Diamond Bar	0	0	0	0	0	0	0
388	Diamond Bar	0	0	0	0	0	0	0
389	Diamond Bar	0	0	0	0	0	0	0
390	Diamond Bar	0	0	0	0	0	0	0
391	Diamond Bar	0	0	0	0	0	0	0
392	Diamond Bar	0	0	0	0	0	0	0
393	Diamond Bar	0	0	0	0	0	0	0
394	Diamond Bar	1	0	0	0	0	0	0
395	Diamond Bar	0	0	0	0	0	0	0
396	Diamond Bar	0	0	0	0	0	0	0
397	Diamond Bar	0	0	0	0	0	0	0
398	Diamond Bar	0	0	0	0	0	0	0
399	Diamond Bar	0	0	0	0	0	0	0
400	Diamond Bar	0	0	0	0	0	0	0
401	Diamond Bar	0	0	0	0	0	0	0
402	Diamond Bar	0	0	0	1	0	0	0
403	Diamond Bar	0	0	0	0	0	0	0
404	Diamond Bar	0	0	0	0	0	0	0
405	Diamond Bar	0	0	0	0	0	0	0
406	Diamond Bar	0	0	0	0	0	0	0
407	Diamond Bar	0	0	0	0	0	0	0
408	Diamond Bar	0	0	0	0	0	0	0
409	Diamond Bar	0	0	0	0	0	0	0
410	Diamond Bar	0	0	0	0	0	0	0
411	Diamond Bar	0	0	0	0	0	0	0
412	Diamond Bar	0	0	0	0	0	0	0
413	Downey	0	0	0	0	0	0	0
414	Downey	0	0	0	0	0	0	0
415	Downey	1	0	0	0	0	0	0
416	Downey	0	0	0	0	0	0	0
417	Downey	0	0	0	0	0	0	0
418	Downey	0	0	0	0	0	0	0
419	Downey	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
420	Downey	0	0	0	0	0	0	0
421	Downey	0	0	0	0	0	0	0
422	Downey	0	0	0	0	0	0	0
423	Downey	0	0	0	0	0	0	0
424	Downey	1	0	0	0	0	0	0
425	Downey	0	0	0	0	0	0	0
426	Downey	0	0	0	0	0	0	0
427	Downey	0	0	0	0	0	0	0
428	Downey	0	0	0	0	0	0	0
429	Downey	0	0	0	0	0	0	0
430	Downey	0	0	0	0	0	0	0
431	Downey	0	0	0	0	0	0	0
432	Downey	1	0	0	0	0	0	0
433	Downey	0	0	1	0	0	0	0
434	Downey	0	0	0	0	0	0	0
435	Downey	0	0	0	0	0	0	0
436	Downey	0	0	0	0	0	0	0
437	Downey	0	0	0	0	0	0	0
438	Downey	0	0	0	0	0	0	0
439	Downey	0	0	0	0	0	0	0
440	Downey	0	0	0	0	0	0	0
441	Downey	0	0	0	0	0	0	0
442	Downey	0	0	0	0	0	0	0
443	Downey	0	0	0	0	0	0	0
444	El Segundo	0	0	0	0	0	0	0
445	El Segundo	1	0	0	0	0	0	0
446	El Segundo	0	0	0	0	0	0	0
447	El Segundo	0	0	0	0	0	0	0
448	El Segundo	0	0	0	0	0	0	0
449	El Segundo	1	0	0	0	0	0	0
450	El Segundo	0	0	0	0	0	0	0
451	El Segundo	0	0	0	0	0	0	0
452	El Segundo	0	0	0	0	0	0	0
453	El Segundo	0	0	0	0	0	0	0
454	El Segundo	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
455	El Segundo	0	0	0	0	0	0	0
456	El Segundo	0	0	0	0	0	0	0
457	El Segundo	0	0	0	0	0	0	0
458	El Segundo	0	0	0	0	0	0	0
459	El Segundo	0	0	0	0	0	0	0
460	El Segundo	0	0	0	0	0	0	0
461	El Segundo	0	0	0	0	0	0	0
462	El Segundo	0	0	0	0	0	0	0
463	El Segundo	0	0	0	0	0	0	0
464	El Segundo	0	0	0	0	0	0	0
465	El Segundo	0	0	0	0	0	0	0
466	Glendale	0	0	0	0	0	0	0
467	Glendale	0	0	0	0	0	0	0
468	Glendale	0	0	0	1	0	0	0
469	Glendale	0	0	0	0	0	0	0
470	Glendale	0	0	0	0	0	0	0
471	Glendale	0	0	0	0	0	0	0
472	Glendale	0	0	0	0	0	0	0
473	Glendale	0	0	0	0	0	0	0
474	Glendale	0	0	0	0	0	0	0
475	Glendale	0	0	0	0	0	0	0
476	Glendale	0	0	0	0	0	0	0
477	Glendale	1	0	0	0	0	0	0
478	Glendale	0	0	0	0	0	0	0
479	Glendale	0	0	0	0	0	0	0
480	Glendale	0	0	0	0	0	0	0
481	Glendale	0	0	0	0	0	0	0
482	Glendale	0	0	0	0	0	0	0
483	Glendale	0	0	0	0	0	0	0
484	Glendale	0	0	0	0	0	0	0
485	Glendale	0	0	0	0	0	0	0
486	Glendale	0	0	0	0	0	0	0
487	Glendale	0	0	0	0	0	0	0
488	Glendale	0	0	0	0	0	0	0
489	Glendale	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
490	Glendale	0	0	0	1	0	0	
491	Glendale	0	0	0	1	0	0	
492	Glendale	0	0	0	0	0	0	
493	Glendale	0	0	1	0	0	0	
494	Glendale	0	0	0	0	0	0	
495	Glendale	0	0	0	0	0	0	
496	Glendale	0	0	0	0	0	0	
497	Glendale	0	0	0	0	0	0	
498	Glendale	0	0	0	0	0	0	
499	Glendora	0	0	0	0	0	0	
500	Glendora	1	0	0	0	0	0	
501	Glendora	0	0	0	0	0	0	
502	Glendora	0	0	1	0	0	0	
503	Glendora	0	0	0	0	0	0	
504	Glendora	0	0	0	0	0	0	
505	Glendora	0	0	0	0	0	0	
506	Glendora	0	0	0	0	0	0	
507	Glendora	0	0	0	0	0	0	
508	Glendora	1	0	0	0	0	0	
509	Glendora	0	0	0	0	0	0	
510	Glendora	0	0	0	0	0	0	
511	Glendora	1	0	0	0	0	0	
512	Glendora	0	0	0	0	0	0	
513	Glendora	1	0	0	0	0	0	
514	Glendora	1	0	0	0	0	0	
515	Glendora	0	0	0	0	0	0	
516	Glendora	1	0	0	0	0	0	
517	Glendora	0	0	0	0	0	0	
518	Glendora	1	0	0	0	0	0	
519	Glendora	0	0	0	0	0	0	
520	Glendora	0	0	0	0	0	0	
521	Glendora	0	0	0	0	0	0	
522	Glendora	0	0	0	0	0	0	
523	Glendora	0	0	0	0	0	0	
524	Glendora	1	0	0	0	0	0	

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
525	Hermosa Beach	0	0	0	0	0	0	0
526	Hermosa Beach	0	0	0	0	0	0	0
527	Hermosa Beach	0	0	0	0	0	0	0
528	Hermosa Beach	0	0	0	0	0	0	0
529	Hermosa Beach	0	0	0	0	0	0	0
530	Hermosa Beach	0	0	0	0	0	0	0
531	Hermosa Beach	1	0	0	0	0	0	0
532	Hermosa Beach	0	0	0	0	0	0	0
533	Hermosa Beach	0	0	0	0	0	0	0
534	Hermosa Beach	0	0	0	0	1	0	0
535	Hermosa Beach	0	0	0	0	0	0	0
536	Hermosa Beach	0	0	0	1	0	0	0
537	Hermosa Beach	0	0	0	0	0	0	0
538	Hermosa Beach	0	0	0	0	0	0	0
539	Hermosa Beach	0	0	0	0	0	0	0
540	Hermosa Beach	1	0	0	0	0	0	0
541	Hermosa Beach	0	0	0	0	0	0	0
542	Hermosa Beach	0	0	0	0	0	0	0
543	Hermosa Beach	1	0	0	0	0	0	0
544	Hermosa Beach	0	0	0	0	0	0	0
545	Hermosa Beach	0	0	0	0	0	0	0
546	Hermosa Beach	0	0	0	0	0	0	0
547	Hermosa Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
548	Hermosa Beach	0	0	0	0	0	0	0
549	Hermosa Beach	0	0	0	0	0	0	0
550	Hermosa Beach	0	0	0	0	0	0	0
551	Hermosa Beach	0	0	0	0	0	0	0
552	Hermosa Beach	0	0	0	0	0	0	0
553	Hermosa Beach	0	0	0	0	0	0	0
554	Hermosa Beach	0	0	0	0	0	0	0
555	Hermosa Beach	1	0	0	0	0	0	0
556	Hermosa Beach	0	0	0	0	0	0	0
557	Hermosa Beach	0	0	0	0	0	0	0
558	Hermosa Beach	0	0	0	0	0	0	0
559	Hermosa Beach	0	0	0	0	0	0	0
560	Hermosa Beach	0	0	0	0	0	0	0
561	Hermosa Beach	0	0	0	1	0	0	0
562	Hermosa Beach	0	0	0	0	0	0	0
563	Hermosa Beach	0	0	0	0	0	0	0
564	Hidden Hills	0	0	0	0	0	0	0
565	Hidden Hills	0	0	0	0	0	0	0
566	Hidden Hills	0	0	0	0	0	0	0
567	Hidden Hills	0	0	0	0	0	0	0
568	Hidden Hills	0	0	0	0	0	0	0
569	Hidden Hills	1	0	0	0	0	0	0
570	Hidden Hills	0	0	0	0	0	0	0
571	Hidden Hills	0	0	0	0	0	0	0
572	Hidden Hills	0	0	0	0	0	0	0
573	Hidden Hills	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
574	Hidden Hills	0	0	0	0	0	0	0
575	Hidden Hills	0	0	0	0	0	0	0
576	Hidden Hills	0	0	0	0	0	0	0
577	La Cañada Flintridge	0	0	0	0	0	0	0
578	La Cañada Flintridge	0	0	0	0	0	0	0
579	La Cañada Flintridge	0	0	0	0	0	0	0
580	La Cañada Flintridge	0	0	0	0	0	0	0
581	La Cañada Flintridge	0	0	0	0	0	0	0
582	La Cañada Flintridge	0	0	0	0	0	0	0
583	La Cañada Flintridge	0	0	0	0	0	0	0
584	La Cañada Flintridge	0	0	0	0	0	0	0
585	La Cañada Flintridge	0	0	0	0	0	0	0
586	La Cañada Flintridge	1	0	0	0	0	0	0
587	La Cañada Flintridge	0	0	0	0	0	0	0
588	La Cañada Flintridge	0	0	0	0	0	0	0
589	La Cañada Flintridge	0	0	0	0	0	0	0
590	La Cañada Flintridge	1	0	0	0	0	0	0
591	La Cañada Flintridge	0	0	0	0	0	0	0
592	La Cañada Flintridge	0	0	0	0	0	0	0
593	La Cañada Flintridge	0	0	0	0	0	0	0
594	La Cañada Flintridge	0	0	0	0	0	0	0
595	La Cañada Flintridge	0	0	0	0	0	0	0
596	La Cañada Flintridge	0	0	0	0	0	0	0
597	La Cañada Flintridge	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
598	La Cañada Flintridge	0	0	0	0	0	0	0
599	La Cañada Flintridge	0	0	0	0	0	0	0
600	La Cañada Flintridge	0	0	0	0	0	0	0
601	La Cañada Flintridge	0	0	0	1	0	0	0
602	La Cañada Flintridge	0	0	0	0	0	0	0
603	La Cañada Flintridge	0	0	0	0	0	0	0
604	La Cañada Flintridge	0	0	0	0	0	0	0
605	La Cañada Flintridge	0	0	0	0	0	0	0
606	La Cañada Flintridge	0	0	0	0	0	0	0
607	La Cañada Flintridge	0	0	0	0	0	0	0
608	La Habra Heights	0	0	0	0	0	0	0
609	La Habra Heights	0	0	0	0	0	0	0
610	La Habra Heights	1	0	0	0	0	0	0
611	La Habra Heights	0	0	0	0	0	0	0
612	La Habra Heights	0	0	0	0	0	0	0
613	La Habra Heights	0	0	0	0	0	0	0
614	La Habra Heights	0	0	0	0	0	0	0
615	La Habra Heights	0	0	0	0	0	0	0
616	La Habra Heights	0	0	0	0	0	0	0
617	La Habra Heights	0	0	0	0	0	0	0
618	La Habra Heights	0	0	0	0	0	0	0
619	La Habra Heights	0	0	0	0	0	0	0
620	La Habra Heights	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
621	Lakewood	0	0	0	0	0	0	0
622	Lakewood	0	0	0	0	0	0	0
623	Lakewood	0	0	0	0	0	0	0
624	Lakewood	1	0	0	0	0	0	0
625	Lakewood	1	0	0	0	0	0	0
626	Lakewood	0	0	0	0	0	0	0
627	Lakewood	0	0	0	0	0	0	0
628	Lakewood	0	0	0	0	0	0	0
629	Lakewood	0	0	0	0	0	0	0
630	Lakewood	0	0	0	0	0	0	0
631	Lakewood	0	0	0	0	0	0	0
632	Lakewood	0	0	0	0	0	0	0
633	Lakewood	0	0	0	0	0	0	0
634	Lakewood	0	0	0	0	0	0	0
635	Lakewood	0	0	0	0	0	0	0
636	Lakewood	1	0	0	0	0	0	0
637	Lakewood	0	0	0	0	0	0	0
638	Lakewood	0	0	0	0	0	0	0
639	Lakewood	1	0	0	0	0	0	0
640	Lakewood	0	0	0	0	0	0	0
641	Lakewood	0	0	0	0	0	0	0
642	Lakewood	0	0	0	0	0	0	0
643	Lakewood	0	0	0	0	0	0	0
644	Lakewood	0	0	0	0	0	0	0
645	Lakewood	1	0	0	0	0	0	0
646	La Mirada	0	0	0	0	0	0	0
647	La Mirada	0	0	0	1	0	0	0
648	La Mirada	0	0	0	0	0	0	0
649	La Mirada	0	0	0	0	0	0	0
650	La Mirada	0	0	0	0	0	0	0
651	La Mirada	0	0	0	0	0	0	0
652	La Mirada	0	0	0	0	0	0	0
653	La Mirada	0	0	0	0	0	0	0
654	La Mirada	0	0	0	0	0	0	0
655	La Mirada	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
656	La Mirada	1	0	0	0	0	0	0
657	La Mirada	0	0	0	0	0	0	0
658	La Mirada	0	0	0	0	0	0	0
659	La Mirada	0	0	0	0	0	0	0
660	La Mirada	0	0	0	0	0	0	0
661	La Mirada	0	0	0	0	0	0	0
662	La Mirada	1	0	0	0	0	0	0
663	La Mirada	0	0	0	0	0	0	0
664	La Mirada	1	0	0	0	0	0	0
665	La Mirada	0	0	0	0	0	0	0
666	La Mirada	0	0	0	0	0	0	0
667	La Mirada	0	0	0	0	0	0	0
668	La Mirada	0	0	0	0	0	0	0
669	La Mirada	0	0	0	0	0	0	0
670	La Mirada	0	0	0	0	0	0	0
671	La Mirada	0	0	0	0	0	0	0
672	La Mirada	0	0	0	0	0	0	0
673	La Mirada	0	0	0	0	0	0	0
674	La Puente	0	0	0	0	0	0	0
675	La Puente	0	0	0	0	0	0	0
676	La Puente	0	0	0	0	0	0	0
677	La Puente	0	0	0	0	0	0	0
678	La Puente	0	0	0	0	0	0	0
679	La Puente	0	0	0	0	0	0	0
680	La Puente	0	0	0	0	0	0	0
681	La Puente	0	0	0	0	0	0	0
682	La Puente	0	0	0	0	0	0	0
683	La Puente	0	0	0	0	0	0	0
684	La Puente	0	0	0	0	0	0	0
685	La Puente	0	0	0	0	0	0	0
686	La Puente	0	0	0	0	0	0	0
687	La Puente	0	0	0	0	0	0	0
688	La Puente	0	0	0	0	0	0	0
689	La Puente	0	0	0	0	0	0	0
690	La Puente	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
691	La Puente	0	0	0	0	0	0	0
692	La Puente	0	0	0	0	0	0	0
693	La Puente	0	0	0	0	0	0	0
694	La Verne	0	0	0	0	0	0	0
695	La Verne	1	0	0	0	0	0	0
696	La Verne	0	0	0	0	0	0	0
697	La Verne	0	0	0	0	0	0	0
698	La Verne	0	0	0	0	0	0	0
699	La Verne	0	0	0	0	0	0	0
700	La Verne	0	0	0	0	0	0	0
701	La Verne	0	0	0	0	0	0	0
702	La Verne	0	0	0	0	0	0	0
703	La Verne	0	0	0	0	0	0	0
704	La Verne	0	0	0	0	0	0	0
705	La Verne	0	0	0	0	0	0	0
706	La Verne	0	0	0	0	0	0	0
707	La Verne	0	0	0	0	0	0	0
708	La Verne	0	0	0	0	0	0	0
709	La Verne	0	0	0	1	0	0	0
710	La Verne	0	0	0	0	0	0	0
711	La Verne	0	0	0	0	0	0	0
712	La Verne	0	0	0	0	0	0	0
713	La Verne	0	0	0	0	0	0	0
714	La Verne	0	0	0	0	0	0	0
715	La Verne	0	0	0	0	0	0	0
716	La Verne	0	0	0	0	0	0	0
717	La Verne	0	0	0	0	0	0	0
718	La Verne	0	0	0	0	0	0	0
719	Lomita	0	0	0	0	0	0	0
720	Lomita	0	0	0	0	0	0	0
721	Lomita	0	0	0	0	0	0	0
722	Lomita	0	0	0	0	0	0	0
723	Lomita	0	0	0	0	0	0	0
724	Lomita	0	0	0	1	0	0	0
725	Lomita	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
726	Lomita	0	0	0	0	0	0	0
727	Lomita	0	0	0	0	0	0	0
728	Lomita	0	0	0	0	0	0	0
729	Lomita	0	0	0	0	0	0	0
730	Lomita	0	0	0	0	0	0	0
731	Lomita	0	0	0	0	0	0	0
732	Lomita	0	0	0	0	0	0	0
733	Lomita	0	0	0	0	0	0	0
734	Lomita	0	0	0	0	0	0	0
735	Lomita	0	0	0	0	0	0	0
736	Lomita	0	0	0	0	0	0	0
737	Lomita	0	0	1	0	0	0	0
738	Lomita	0	0	0	0	0	0	0
739	Lomita	0	0	0	0	0	0	0
740	Lomita	1	0	0	0	0	0	0
741	Lomita	0	0	0	0	0	0	0
742	Lomita	0	0	0	0	0	0	0
743	Lomita	0	0	0	0	0	0	0
744	Lomita	0	0	0	0	0	0	0
745	Lomita	0	0	0	0	0	0	0
746	Lomita	0	0	0	0	0	0	0
747	Lomita	0	0	0	0	0	0	0
748	Lomita	0	0	0	1	0	0	0
749	Lomita	0	0	0	0	0	0	0
750	Lomita	0	0	0	0	0	0	0
751	Lomita	0	0	0	0	0	0	0
752	Lomita	0	0	0	0	0	0	0
753	Lomita	0	0	0	0	0	0	0
754	Lomita	0	0	0	0	0	0	0
755	Lomita	0	0	0	0	0	0	0
756	Long Beach	0	0	1	0	0	0	0
757	Long Beach	0	0	0	0	0	0	0
758	Long Beach	0	0	0	0	0	0	0
759	Long Beach	1	0	0	0	0	0	0
760	Long Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
761	Long Beach	0	0	0	0	0	0	0
762	Long Beach	0	0	0	0	0	0	0
763	Long Beach	0	0	0	0	0	0	0
764	Long Beach	1	0	0	0	0	0	0
765	Long Beach	0	0	0	0	0	0	0
766	Long Beach	1	0	0	0	0	0	0
767	Long Beach	1	0	0	0	0	0	0
768	Long Beach	0	0	0	0	0	0	0
769	Long Beach	0	0	0	0	0	0	0
770	Long Beach	0	0	0	0	0	0	0
771	Long Beach	0	0	0	0	0	0	0
772	Long Beach	0	0	0	0	0	0	0
773	Long Beach	0	0	0	0	0	0	0
774	Long Beach	0	0	0	0	0	0	0
775	Long Beach	1	0	0	0	0	0	0
776	Long Beach	0	0	0	0	0	0	0
777	Long Beach	0	0	0	0	0	0	0
778	Long Beach	0	0	0	0	0	0	0
779	Long Beach	1	0	0	0	0	0	0
780	Long Beach	0	0	0	0	0	0	0
781	Long Beach	0	0	0	0	0	0	0
782	Long Beach	0	0	0	0	0	0	0
783	Long Beach	0	0	0	0	0	0	0
784	Long Beach	0	0	0	0	0	0	0
785	Long Beach	0	0	0	0	0	0	0
786	Long Beach	0	0	0	0	0	0	0
787	Malibu	0	0	0	0	0	0	0
788	Malibu	0	0	0	0	0	0	0
789	Malibu	0	0	0	0	0	0	0
790	Malibu	0	0	0	1	0	0	0
791	Malibu	0	0	0	0	0	0	0
792	Malibu	0	0	0	0	0	0	0
793	Malibu	1	0	0	0	0	0	0
794	Malibu	0	0	0	0	0	0	0
795	Malibu	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
796	Malibu	0	0	0	0	0	0	0
797	Malibu	0	0	0	0	0	0	0
798	Malibu	0	0	0	0	0	0	0
799	Malibu	0	0	0	0	0	0	0
800	Malibu	1	0	0	0	0	0	0
801	Malibu	0	0	0	0	0	0	0
802	Malibu	0	0	0	0	0	0	0
803	Malibu	0	0	0	0	0	0	0
804	Malibu	0	0	0	0	0	0	0
805	Malibu	0	0	0	0	0	0	0
806	Manhattan Beach	0	0	0	0	0	0	0
807	Manhattan Beach	0	0	0	0	0	0	0
808	Manhattan Beach	0	0	0	0	0	0	0
809	Manhattan Beach	1	0	0	0	0	0	0
810	Manhattan Beach	0	0	0	0	0	0	0
811	Manhattan Beach	0	0	0	0	0	0	0
812	Manhattan Beach	0	0	0	0	0	0	0
813	Manhattan Beach	0	0	0	0	0	0	0
814	Manhattan Beach	0	0	0	0	0	0	0
815	Manhattan Beach	0	0	0	0	0	0	0
816	Manhattan Beach	0	0	0	1	0	0	0
817	Manhattan Beach	1	0	0	0	0	0	0
818	Manhattan Beach	0	0	0	0	0	0	0
819	Manhattan Beach	0	0	0	0	0	0	0
820	Manhattan Beach	0	0	0	0	0	0	0
821	Manhattan Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
822	Manhattan Beach	0	0	0	0	0	0	0
823	Manhattan Beach	1	0	0	0	0	0	0
824	Manhattan Beach	1	0	0	0	0	0	0
825	Manhattan Beach	0	0	0	0	0	0	0
826	Manhattan Beach	0	0	0	0	0	0	0
827	Manhattan Beach	1	0	0	0	0	0	0
828	Manhattan Beach	0	0	0	0	0	0	0
829	Manhattan Beach	0	0	0	0	0	0	0
830	Manhattan Beach	0	0	0	0	0	0	0
831	Manhattan Beach	0	0	0	0	0	0	0
832	Manhattan Beach	0	0	0	1	0	0	0
833	Monrovia	0	0	0	0	0	0	0
834	Monrovia	0	0	0	0	0	0	0
835	Monterey Park	0	0	0	0	0	0	0
836	Monterey Park	0	0	0	0	0	0	0
837	Monterey Park	0	0	0	0	0	0	0
838	Monterey Park	0	0	0	0	0	0	0
839	Monterey Park	0	0	0	0	0	0	0
840	Monterey Park	0	0	0	1	0	0	0
841	Monterey Park	0	0	0	0	0	0	0
842	Monterey Park	0	0	0	0	0	0	0
843	Monterey Park	0	0	0	0	0	0	0
844	Monterey Park	0	0	0	0	0	0	0
845	Monterey Park	0	0	0	0	0	0	0
846	Monterey Park	0	0	0	0	0	0	0
847	Monterey Park	0	0	0	0	0	0	0
848	Monterey Park	0	0	0	0	0	0	0
849	Monterey Park	0	0	0	0	0	0	0
850	Monterey Park	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
851	Monterey Park	0	0	0	0	0	0	0
852	Monterey Park	0	0	0	0	0	0	0
853	Monterey Park	0	0	0	0	0	0	0
854	Monterey Park	0	0	0	1	0	0	0
855	Monterey Park	0	0	0	0	0	0	0
856	Monterey Park	0	0	0	0	0	0	0
857	Monterey Park	0	0	0	0	0	0	0
858	Monterey Park	0	0	0	0	0	0	0
859	Monterey Park	0	0	0	0	0	0	0
860	Monterey Park	1	0	0	0	0	0	0
861	Monterey Park	0	0	0	0	0	0	0
862	Monterey Park	0	0	0	0	0	0	0
863	Monterey Park	0	0	0	0	0	0	0
864	Monterey Park	0	0	0	0	0	0	0
865	Monterey Park	0	0	0	0	0	0	0
866	Monterey Park	0	0	0	1	0	0	0
867	Monterey Park	0	0	0	0	0	0	0
868	Monterey Park	0	0	0	0	0	0	0
869	Monterey Park	0	0	0	0	0	0	0
870	Monterey Park	0	0	0	0	0	0	0
871	Monterey Park	0	0	0	0	0	0	0
872	Monterey Park	0	0	0	0	0	0	0
873	Monterey Park	0	0	0	0	0	0	0
874	Monterey Park	0	0	0	1	0	0	0
875	Monterey Park	0	0	0	0	0	0	0
876	Monterey Park	0	0	0	0	0	0	0
877	Monterey Park	0	0	0	1	0	0	0
878	Monterey Park	0	0	0	0	0	0	0
879	Monterey Park	0	0	0	0	0	0	0
880	Monterey Park	0	0	0	0	0	0	0
881	Monterey Park	0	0	0	0	0	0	0
882	Monterey Park	0	0	0	0	0	0	0
883	Monterey Park	0	0	0	0	0	0	0
884	Monterey Park	0	0	0	0	0	0	0
885	Monterey Park	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
886	Monterey Park	0	0	0	0	0	0	0
887	Norwalk	0	0	0	0	0	0	0
888	Norwalk	0	0	0	0	0	0	0
889	Norwalk	0	0	0	0	0	0	0
890	Norwalk	0	0	0	0	0	0	0
891	Norwalk	0	0	0	0	0	0	0
892	Norwalk	0	0	0	0	0	0	0
893	Norwalk	0	0	0	0	0	0	0
894	Norwalk	1	0	0	0	0	0	0
895	Norwalk	0	0	0	0	0	0	0
896	Norwalk	0	0	0	0	0	0	0
897	Norwalk	0	0	0	0	0	0	0
898	Norwalk	0	0	0	0	0	0	0
899	Norwalk	0	0	0	0	0	0	0
900	Norwalk	0	0	0	0	0	0	0
901	Norwalk	0	0	0	0	0	0	0
902	Norwalk	0	0	0	0	0	0	0
903	Norwalk	0	0	0	0	0	0	0
904	Norwalk	0	0	0	0	0	0	0
905	Norwalk	0	0	0	0	0	0	0
906	Norwalk	0	0	0	0	0	0	0
907	Norwalk	1	0	0	0	0	0	0
908	Norwalk	0	0	0	0	0	0	0
909	Norwalk	0	0	0	0	0	0	0
910	Norwalk	0	0	0	0	0	0	0
911	Norwalk	0	0	0	0	0	0	0
912	Norwalk	0	0	0	0	0	0	0
913	Norwalk	0	0	0	0	0	0	0
914	Norwalk	0	0	0	0	0	0	0
915	Norwalk	0	0	0	0	0	0	0
916	Norwalk	0	0	0	0	0	0	0
917	Norwalk	0	0	0	0	0	0	0
918	Norwalk	0	0	0	0	0	0	0
919	Norwalk	0	0	0	0	0	0	0
920	Norwalk	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
921	Palos Verdes Estates	0	0	0	0	0	0	0
922	Palos Verdes Estates	0	0	0	0	0	0	0
923	Palos Verdes Estates	0	0	0	0	0	0	0
924	Palos Verdes Estates	0	0	0	0	0	0	0
925	Palos Verdes Estates	1	0	0	0	0	0	0
926	Palos Verdes Estates	0	0	0	0	0	0	0
927	Pasadena	0	0	0	0	0	0	0
928	Pasadena	0	0	0	0	0	0	0
929	Pasadena	0	0	0	0	0	0	0
930	Pasadena	0	0	0	1	0	0	0
931	Pasadena	1	0	0	0	0	0	0
932	Pasadena	0	0	0	0	0	0	0
933	Pasadena	1	0	0	0	0	0	0
934	Pasadena	0	0	0	0	0	0	0
935	Pasadena	0	0	0	0	0	0	0
936	Pasadena	0	0	0	0	0	0	0
937	Pasadena	0	0	0	0	0	0	0
938	Pasadena	0	0	0	0	0	0	0
939	Pasadena	0	0	0	0	0	0	0
940	Pasadena	0	0	0	0	0	0	0
941	Pasadena	0	0	0	0	0	0	0
942	Pasadena	0	0	0	0	0	0	0
943	Pasadena	0	0	0	0	0	0	0
944	Pasadena	0	0	0	0	0	0	0
945	Pasadena	0	0	0	0	0	0	0
946	Pasadena	0	0	0	0	0	0	0
947	Pasadena	0	0	0	0	0	0	0
948	Pasadena	0	0	0	0	0	0	0
949	Pasadena	0	0	0	0	0	0	0
950	Pasadena	1	0	0	0	0	0	0
951	Pico Rivera	0	0	0	0	0	0	0
952	Pico Rivera	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
953	Pico Rivera	0	0	0	0	0	0	0
954	Pico Rivera	0	0	0	1	0	0	0
955	Pico Rivera	0	0	0	0	0	0	0
956	Pico Rivera	0	0	0	0	0	0	0
957	Pico Rivera	0	0	0	0	0	0	0
958	Pico Rivera	0	0	0	0	0	0	0
959	Pico Rivera	0	0	0	0	0	0	0
960	Pico Rivera	0	0	0	0	0	0	0
961	Pico Rivera	0	0	0	0	0	0	0
962	Pico Rivera	0	0	0	0	0	0	0
963	Pico Rivera	0	0	0	0	0	0	0
964	Pico Rivera	0	0	0	0	0	0	0
965	Pico Rivera	0	0	0	0	0	0	0
966	Pico Rivera	0	0	0	0	0	0	0
967	Pico Rivera	0	0	0	0	0	0	0
968	Pico Rivera	0	0	0	0	0	0	0
969	Pico Rivera	0	0	0	0	0	0	0
970	Pico Rivera	0	0	0	0	0	0	0
971	Pico Rivera	1	0	0	0	0	0	0
972	Pico Rivera	0	0	0	0	0	0	0
973	Pico Rivera	0	0	0	0	0	0	0
974	Pico Rivera	0	0	0	0	0	0	0
975	Pico Rivera	0	0	0	0	0	0	0
976	Pico Rivera	0	0	0	0	0	0	0
977	Pico Rivera	0	0	0	0	0	0	0
978	Pico Rivera	0	0	0	0	0	0	0
979	Pico Rivera	0	0	0	0	0	0	0
980	Pico Rivera	0	0	0	0	0	0	0
981	Rancho Palos Verdes	1	0	0	0	0	0	0
982	Rancho Palos Verdes	0	0	0	0	0	0	0
983	Rancho Palos Verdes	0	0	0	0	0	0	0
984	Rancho Palos Verdes	1	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
985	Rancho Palos Verdes	0	0	0	0	0	0	0
986	Rancho Palos Verdes	0	0	0	0	0	0	0
987	Rancho Palos Verdes	1	0	0	0	0	0	0
988	Rancho Palos Verdes	0	0	0	0	0	0	0
989	Rancho Palos Verdes	0	0	0	0	0	0	0
990	Rancho Palos Verdes	0	0	0	0	0	0	0
991	Rancho Palos Verdes	0	0	0	0	0	0	0
992	Rancho Palos Verdes	0	0	0	0	0	0	0
993	Rancho Palos Verdes	0	0	0	0	0	0	0
994	Rancho Palos Verdes	0	0	0	1	0	0	0
995	Rancho Palos Verdes	1	0	0	0	0	0	0
996	Redondo Beach	0	0	0	0	0	0	0
997	Redondo Beach	1	0	0	0	0	0	0
998	Redondo Beach	0	0	0	0	0	0	0
999	Redondo Beach	1	0	0	0	0	0	0
1000	Redondo Beach	0	0	0	0	0	0	0
1001	Redondo Beach	0	0	0	0	0	0	0
1002	Redondo Beach	0	0	0	0	0	0	0
1003	Redondo Beach	0	0	0	0	0	0	0
1004	Redondo Beach	1	0	0	0	0	0	0
1005	Redondo Beach	0	0	0	0	0	0	0
1006	Redondo Beach	0	0	0	0	0	0	0
1007	Redondo Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1008	Redondo Beach	0	0	0	0	0	0	0
1009	Redondo Beach	0	0	0	0	0	0	0
1010	Redondo Beach	0	0	0	0	0	0	0
1011	Redondo Beach	1	0	0	0	0	0	0
1012	Redondo Beach	0	0	0	0	0	0	0
1013	Redondo Beach	0	0	0	0	0	0	0
1014	Redondo Beach	0	0	0	0	0	0	0
1015	Redondo Beach	0	0	0	0	0	0	0
1016	Redondo Beach	0	0	0	0	0	0	0
1017	Redondo Beach	0	0	0	0	0	0	0
1018	Redondo Beach	0	0	0	0	0	0	0
1019	Redondo Beach	0	0	0	0	0	0	0
1020	Redondo Beach	0	0	0	0	0	0	0
1021	Redondo Beach	0	0	0	0	0	0	0
1022	Redondo Beach	0	0	0	0	0	0	0
1023	Redondo Beach	0	0	0	0	0	0	0
1024	Redondo Beach	0	0	0	1	0	0	0
1025	Redondo Beach	0	0	0	0	0	0	0
1026	Redondo Beach	0	0	0	0	0	0	0
1027	Redondo Beach	0	0	0	0	0	0	0
1028	Redondo Beach	0	0	0	0	0	0	0
1029	Redondo Beach	1	0	0	0	0	0	0
1030	Redondo Beach	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1031	Redondo Beach	1	0	0	0	0	0	0
1032	Redondo Beach	0	0	0	0	1	0	0
1033	Redondo Beach	0	0	0	0	0	0	0
1034	Redondo Beach	0	0	0	0	0	0	0
1035	Rolling Hills	0	0	0	0	0	0	0
1036	Rolling Hills	0	0	0	0	0	0	0
1037	Rolling Hills	0	0	0	0	0	0	0
1038	Rolling Hills	0	0	0	0	0	0	0
1039	Rolling Hills	0	0	0	0	0	0	0
1040	Rolling Hills	0	0	0	0	0	0	0
1041	Rolling Hills	0	0	0	0	0	0	0
1042	Rolling Hills	0	0	0	0	0	0	0
1043	Rolling Hills	0	0	0	0	0	0	0
1044	Rolling Hills	0	0	0	0	0	0	0
1045	Rolling Hills	0	0	0	0	0	0	0
1046	Rolling Hills Estates	0	0	0	0	0	0	0
1047	Rolling Hills Estates	1	0	0	0	0	0	0
1048	Rolling Hills Estates	0	0	0	1	0	0	0
1049	Rolling Hills Estates	0	0	0	0	0	0	0
1050	Rolling Hills Estates	0	0	0	0	0	0	0
1051	Rolling Hills Estates	0	0	0	0	0	0	0
1052	Rolling Hills Estates	0	0	0	0	0	0	0
1053	Rolling Hills Estates	0	0	0	0	0	0	0
1054	Rolling Hills Estates	0	0	0	0	0	0	0
1055	Rolling Hills Estates	0	0	0	0	0	0	0
1056	Rolling Hills Estates	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1057	Rolling Hills Estates	0	0	0	0	0	0	0
1058	Rolling Hills Estates	0	0	0	0	0	0	0
1059	Rolling Hills Estates	0	0	0	0	0	0	0
1060	Rolling Hills Estates	0	0	0	0	0	0	0
1061	Rolling Hills Estates	0	1	0	0	0	0	0
1062	Rolling Hills Estates	0	0	0	0	0	0	0
1063	Rolling Hills Estates	0	0	0	0	0	0	0
1064	Rolling Hills Estates	0	0	0	0	0	0	0
1065	Rolling Hills Estates	0	0	0	0	0	0	0
1066	Rolling Hills Estates	0	0	0	0	0	0	0
1067	Rolling Hills Estates	0	0	0	0	0	0	0
1068	Rolling Hills Estates	0	0	0	0	0	0	0
1069	Rolling Hills Estates	0	0	0	0	0	0	0
1070	Rolling Hills Estates	0	0	0	0	0	0	0
1071	Rolling Hills Estates	0	0	0	0	0	0	0
1072	Rolling Hills Estates	1	0	0	0	0	0	0
1073	Rolling Hills Estates	0	0	0	0	0	0	0
1074	Rolling Hills Estates	0	0	0	0	0	0	0
1075	Rolling Hills Estates	0	0	0	0	0	0	0
1076	Rolling Hills Estates	0	0	0	0	0	0	0
1077	Rolling Hills Estates	0	0	0	0	0	0	0
1078	Rolling Hills Estates	0	0	0	0	0	0	0
1079	Rolling Hills Estates	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1080	Rolling Hills Estates	0	0	0	0	0	0	0
1081	Rolling Hills Estates	0	0	0	0	0	0	0
1082	Rolling Hills Estates	0	0	0	0	0	0	0
1083	Rolling Hills Estates	0	0	0	0	0	0	0
1084	Rolling Hills Estates	0	0	0	0	0	0	0
1085	Rolling Hills Estates	0	0	0	0	0	0	0
1086	Rolling Hills Estates	0	0	0	0	0	0	0
1087	Rolling Hills Estates	0	0	0	1	0	0	0
1088	San Dimas	0	0	0	0	0	0	0
1089	San Dimas	0	0	0	0	0	0	0
1090	San Dimas	0	0	0	0	0	0	0
1091	San Dimas	0	0	0	0	0	0	0
1092	San Dimas	0	0	0	0	0	0	0
1093	San Dimas	0	0	0	0	0	0	0
1094	San Dimas	0	0	0	0	0	0	0
1095	San Dimas	0	0	0	0	0	0	0
1096	San Dimas	0	0	0	0	0	0	0
1097	San Dimas	1	0	0	0	0	0	0
1098	San Dimas	0	0	0	0	0	0	0
1099	San Dimas	0	0	0	0	0	0	0
1100	San Dimas	0	0	0	0	0	0	0
1101	San Dimas	0	0	0	0	0	0	0
1102	San Dimas	1	0	0	0	0	0	0
1103	San Dimas	1	0	0	0	0	0	0
1104	San Dimas	0	0	0	0	0	0	0
1105	San Dimas	0	0	0	0	0	0	0
1106	San Dimas	0	0	0	0	0	0	0
1107	San Fernando	0	0	0	0	0	0	0
1108	San Fernando	0	0	0	0	0	0	0
1109	San Fernando	0	0	0	0	0	0	0
1110	San Fernando	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1111	San Fernando	1	0	0	0	0	0	0
1112	San Fernando	0	0	0	0	0	0	0
1113	San Fernando	0	0	0	0	0	0	0
1114	San Fernando	0	0	0	0	0	0	0
1115	San Fernando	0	0	0	0	0	0	0
1116	San Fernando	0	0	0	0	0	0	0
1117	San Fernando	0	0	0	0	0	0	0
1118	San Fernando	0	0	0	0	0	0	0
1119	San Fernando	0	0	0	0	0	0	0
1120	San Fernando	0	0	0	0	0	0	0
1121	San Fernando	0	0	0	0	0	0	0
1122	San Fernando	0	0	0	0	0	0	0
1123	San Fernando	0	0	0	0	0	0	0
1124	San Gabriel	0	0	0	0	0	0	0
1125	San Gabriel	0	0	0	0	0	0	0
1126	San Gabriel	0	0	0	0	0	0	0
1127	San Gabriel	0	0	0	1	0	0	0
1128	San Gabriel	0	0	0	0	0	0	0
1129	San Gabriel	0	0	0	0	0	0	0
1130	San Gabriel	0	0	0	0	0	0	0
1131	San Gabriel	0	0	0	0	0	0	0
1132	San Gabriel	0	0	0	0	0	0	0
1133	San Gabriel	0	0	0	0	0	0	0
1134	San Gabriel	0	0	0	0	0	0	0
1135	San Gabriel	0	0	0	0	0	0	0
1136	San Gabriel	1	0	0	0	0	0	0
1137	San Gabriel	0	0	0	1	0	0	0
1138	San Gabriel	0	0	0	0	0	0	0
1139	San Gabriel	0	0	0	0	0	0	0
1140	San Gabriel	0	0	0	0	0	0	0
1141	San Gabriel	0	0	0	0	0	0	0
1142	San Gabriel	0	0	0	0	0	0	0
1143	San Gabriel	0	0	0	0	0	0	0
1144	San Gabriel	0	0	0	0	0	0	0
1145	San Gabriel	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1146	San Gabriel	0	0	0	0	0	0	0
1147	San Gabriel	0	0	0	0	0	0	0
1148	San Gabriel	0	0	0	0	0	0	0
1149	San Gabriel	0	0	0	0	0	0	0
1150	San Gabriel	0	0	0	0	0	0	0
1151	San Gabriel	0	0	0	0	0	0	0
1152	San Gabriel	0	0	0	0	0	0	0
1153	San Gabriel	0	0	0	0	0	0	0
1154	San Gabriel	0	0	0	0	0	0	0
1155	San Gabriel	0	0	0	0	0	0	0
1156	San Gabriel	0	0	0	0	0	0	0
1157	San Gabriel	0	0	0	0	0	0	0
1158	San Gabriel	0	0	0	0	0	0	0
1159	San Gabriel	0	0	0	0	0	0	0
1160	San Gabriel	0	0	0	0	0	0	0
1161	San Gabriel	0	0	0	0	0	0	0
1162	San Gabriel	1	0	0	0	0	0	0
1163	San Gabriel	0	0	0	0	0	0	0
1164	San Gabriel	0	0	0	0	0	0	0
1165	San Gabriel	0	0	0	0	0	0	0
1166	San Gabriel	0	0	0	0	0	0	0
1167	San Gabriel	0	0	0	0	0	0	0
1168	San Gabriel	0	0	0	0	0	0	0
1169	San Gabriel	0	0	0	0	0	0	0
1170	San Marino	0	0	0	0	0	0	0
1171	San Marino	0	0	0	0	0	0	0
1172	San Marino	0	0	0	0	0	0	0
1173	San Marino	0	0	0	0	0	0	0
1174	San Marino	0	0	0	0	0	0	0
1175	San Marino	0	0	0	0	0	0	0
1176	San Marino	0	0	0	0	0	0	0
1177	San Marino	0	0	0	0	0	0	0
1178	San Marino	0	0	0	0	0	0	0
1179	San Marino	1	0	0	0	0	0	0
1180	San Marino	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1181	San Marino	0	0	0	0	0	0	0
1182	San Marino	0	0	0	0	0	0	0
1183	San Marino	0	0	0	0	0	0	0
1184	San Marino	0	0	0	0	0	0	0
1185	San Marino	0	0	0	0	0	0	0
1186	San Marino	0	0	0	0	0	0	0
1187	San Marino	0	0	0	0	0	0	0
1188	San Marino	0	0	0	0	0	0	0
1189	San Marino	0	0	0	0	0	0	0
1190	San Marino	0	0	0	0	0	0	0
1191	San Marino	0	0	0	0	0	0	0
1192	San Marino	0	0	0	0	0	0	0
1193	Santa Clarita	0	0	0	0	0	0	0
1194	Santa Clarita	1	0	0	0	0	0	0
1195	Santa Clarita	0	0	0	0	0	0	0
1196	Santa Clarita	0	0	0	0	0	0	0
1197	Santa Clarita	0	0	0	0	0	0	0
1198	Santa Clarita	0	0	0	0	0	0	0
1199	Santa Clarita	0	0	0	0	0	0	0
1200	Santa Clarita	0	0	0	0	0	0	0
1201	Santa Clarita	0	0	0	0	0	0	0
1202	Santa Clarita	0	0	0	0	0	0	0
1203	Santa Clarita	0	0	0	0	0	0	0
1204	Santa Clarita	0	0	0	0	0	0	0
1205	Santa Clarita	0	0	0	0	0	0	0
1206	Santa Clarita	0	0	0	0	0	0	0
1207	Santa Clarita	0	0	0	0	0	0	0
1208	Santa Clarita	0	0	0	0	0	0	0
1209	Santa Clarita	0	0	0	0	0	0	0
1210	Santa Clarita	0	0	0	0	0	0	0
1211	Santa Clarita	0	0	0	0	0	0	0
1212	Santa Clarita	0	0	0	0	0	0	0
1213	Santa Clarita	0	0	0	0	0	0	0
1214	Santa Clarita	0	0	0	1	0	0	0
1215	Santa Clarita	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1216	Santa Fe Springs	0	0	0	0	0	0	0
1217	Santa Fe Springs	0	0	0	0	0	0	0
1218	Santa Fe Springs	1	0	0	0	0	0	0
1219	Santa Fe Springs	0	0	0	0	0	0	0
1220	Santa Fe Springs	0	0	0	0	0	0	0
1221	Santa Fe Springs	0	0	0	0	0	0	0
1222	Santa Fe Springs	0	0	0	0	0	0	0
1223	Santa Fe Springs	0	0	0	0	0	0	0
1224	Santa Fe Springs	0	0	0	0	0	0	0
1225	Santa Fe Springs	0	0	0	0	0	0	0
1226	Santa Fe Springs	0	0	0	0	0	0	0
1227	Santa Fe Springs	0	0	0	0	0	0	0
1228	Santa Fe Springs	0	0	0	0	0	0	0
1229	Santa Fe Springs	0	0	0	0	0	0	0
1230	Santa Fe Springs	0	0	0	1	0	0	0
1231	Santa Fe Springs	0	0	0	1	0	0	0
1232	Santa Fe Springs	0	0	0	0	0	0	0
1233	Santa Fe Springs	0	0	0	0	0	0	0
1234	Santa Fe Springs	0	0	0	0	0	0	0
1235	Santa Fe Springs	0	0	0	0	0	0	0
1236	Santa Fe Springs	0	0	0	0	0	0	0
1237	Santa Fe Springs	0	0	0	0	0	0	0
1238	Santa Fe Springs	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1239	Santa Fe Springs	0	0	0	0	0	0	0
1240	Santa Fe Springs	0	0	0	0	0	0	0
1241	Santa Fe Springs	0	0	0	0	0	0	0
1242	Santa Fe Springs	0	0	0	0	0	0	0
1243	Santa Fe Springs	0	0	0	0	0	0	0
1244	Santa Fe Springs	0	0	0	0	0	0	0
1245	Santa Monica	1	0	0	0	0	0	0
1246	Santa Monica	0	0	0	1	0	0	0
1247	Santa Monica	0	0	0	0	0	0	0
1248	Santa Monica	0	0	0	0	0	0	0
1249	Santa Monica	0	0	0	0	0	0	0
1250	Santa Monica	0	0	0	0	0	0	0
1251	Santa Monica	0	0	0	0	0	0	0
1252	Santa Monica	1	0	0	0	0	0	0
1253	Santa Monica	0	0	0	0	0	0	0
1254	Santa Monica	0	0	0	0	0	0	0
1255	Santa Monica	1	0	0	0	0	0	0
1256	Santa Monica	0	0	0	0	0	0	0
1257	Santa Monica	1	0	0	0	0	0	0
1258	Santa Monica	0	0	0	0	0	0	0
1259	Santa Monica	1	0	0	0	0	0	0
1260	Santa Monica	0	0	0	0	0	0	0
1261	Santa Monica	0	0	0	0	0	0	0
1262	Santa Monica	0	0	0	0	0	0	0
1263	Santa Monica	0	0	0	0	0	0	0
1264	Santa Monica	0	0	0	0	0	0	0
1265	Santa Monica	0	0	0	0	0	0	0
1266	Santa Monica	0	0	0	0	0	0	0
1267	Santa Monica	0	0	0	0	0	0	0
1268	Sierra Madre	1	0	0	0	0	0	0
1269	Sierra Madre	1	0	0	0	0	0	0
1270	Sierra Madre	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1271	Sierra Madre	0	0	0	0	0	0	0
1272	Sierra Madre	0	0	0	0	0	0	0
1273	Sierra Madre	0	0	0	0	0	0	0
1274	Sierra Madre	0	0	0	0	0	0	0
1275	Sierra Madre	0	0	0	0	0	0	0
1276	Sierra Madre	0	0	0	0	0	0	0
1277	Sierra Madre	0	0	0	0	0	0	0
1278	Sierra Madre	0	0	0	0	0	0	0
1279	Sierra Madre	0	0	0	0	0	0	0
1280	Sierra Madre	0	0	0	0	0	0	0
1281	Sierra Madre	0	0	0	0	0	0	0
1282	Sierra Madre	0	0	0	0	0	0	0
1283	Sierra Madre	1	0	0	0	0	0	0
1284	Sierra Madre	0	0	0	0	0	0	0
1285	Sierra Madre	0	0	0	0	0	0	0
1286	Sierra Madre	0	0	0	0	0	0	0
1287	Sierra Madre	0	0	0	0	0	0	0
1288	Sierra Madre	1	0	0	0	0	0	0
1289	Signal Hill	0	1	0	0	0	0	0
1290	Signal Hill	0	0	0	0	0	0	0
1291	Signal Hill	0	0	0	0	0	0	0
1292	Signal Hill	0	0	0	0	0	0	0
1293	Signal Hill	1	0	0	0	0	0	0
1294	Signal Hill	0	0	0	0	0	0	0
1295	Signal Hill	1	0	0	0	0	0	0
1296	Signal Hill	1	0	0	0	0	0	0
1297	Signal Hill	0	0	0	0	0	0	0
1298	Signal Hill	0	0	0	0	0	0	0
1299	Signal Hill	0	0	0	0	0	0	0
1300	Signal Hill	0	0	0	0	0	0	0
1301	Signal Hill	0	0	0	0	0	0	0
1302	Signal Hill	0	0	0	0	0	0	0
1303	Signal Hill	0	0	0	0	0	0	0
1304	Signal Hill	0	0	0	0	0	0	0
1305	Signal Hill	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1306	Signal Hill	0	0	0	0	0	0	0
1307	Signal Hill	0	0	0	0	0	0	0
1308	Signal Hill	0	0	0	0	0	0	0
1309	Signal Hill	0	0	0	0	0	0	0
1310	Signal Hill	0	0	0	0	0	0	0
1311	Signal Hill	0	0	0	0	0	0	0
1312	Signal Hill	0	0	0	0	0	0	0
1313	Signal Hill	0	0	0	0	0	0	0
1314	Signal Hill	0	0	0	0	0	0	0
1315	Signal Hill	0	0	0	0	0	0	0
1316	Signal Hill	0	0	0	0	0	0	0
1317	Signal Hill	0	0	0	0	0	0	0
1318	Signal Hill	0	0	0	0	0	0	0
1319	South Pasadena	0	0	0	0	0	0	0
1320	South Pasadena	0	0	0	0	0	0	0
1321	South Pasadena	0	0	0	0	0	0	0
1322	South Pasadena	0	0	0	0	0	0	0
1323	South Pasadena	1	0	0	0	0	0	0
1324	South Pasadena	0	0	0	0	0	0	0
1325	South Pasadena	1	0	0	0	0	0	0
1326	South Pasadena	0	0	0	0	0	0	0
1327	South Pasadena	0	0	0	0	0	0	0
1328	South Pasadena	0	0	0	0	0	0	0
1329	South Pasadena	0	0	0	0	0	0	0
1330	South Pasadena	0	0	0	0	0	0	0
1331	South Pasadena	0	0	0	0	0	0	0
1332	South Pasadena	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1333	South Pasadena	0	0	0	0	0	0	0
1334	South Pasadena	0	0	0	0	0	0	0
1335	South Pasadena	0	0	0	0	0	0	0
1336	South Pasadena	0	0	0	0	0	0	0
1337	South Pasadena	0	0	0	0	0	0	0
1338	South Pasadena	0	0	0	0	0	0	0
1339	South Pasadena	0	0	0	0	0	0	0
1340	South Pasadena	0	0	0	0	0	0	0
1341	South Pasadena	0	0	0	0	0	0	0
1342	South Pasadena	0	0	0	0	0	0	0
1343	Temple City	0	0	0	0	0	0	0
1344	Temple City	0	0	0	0	0	0	0
1345	Temple City	0	0	0	0	0	0	0
1346	Temple City	0	0	0	0	0	0	0
1347	Temple City	0	0	0	0	0	0	0
1348	Temple City	0	0	0	0	0	0	0
1349	Temple City	0	0	0	0	0	0	0
1350	Temple City	0	0	0	0	0	0	0
1351	Temple City	0	0	0	0	0	0	0
1352	Temple City	1	0	0	0	0	0	0
1353	Temple City	0	0	0	0	0	0	0
1354	Temple City	0	0	0	0	0	0	0
1355	Temple City	1	0	0	0	0	0	0
1356	Temple City	0	0	0	0	0	0	0
1357	Temple City	0	0	0	0	0	0	0
1358	Temple City	0	0	0	0	0	0	0
1359	Temple City	0	0	0	0	0	0	0
1360	Temple City	0	0	0	0	0	0	0
1361	Temple City	0	0	0	0	0	0	0
1362	Temple City	0	0	0	1	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1363	Temple City	0	0	0	0	0	0	0
1364	Temple City	0	0	0	0	0	0	0
1365	Temple City	0	0	0	0	0	0	0
1366	Temple City	0	0	0	0	0	0	0
1367	Temple City	0	0	0	0	0	0	0
1368	Temple City	0	0	0	0	0	0	0
1369	Temple City	0	0	0	0	0	0	0
1370	Temple City	0	0	0	0	0	0	0
1371	Temple City	0	0	0	0	0	0	0
1372	Temple City	0	0	0	0	0	0	0
1373	Temple City	0	0	0	0	0	0	0
1374	Temple City	0	0	0	0	0	0	0
1375	Temple City	0	0	0	0	0	0	0
1376	Temple City	0	0	0	0	0	0	0
1377	Temple City	0	0	0	0	0	0	0
1378	Temple City	0	0	0	0	0	0	0
1379	Temple City	0	0	0	0	0	0	0
1380	Temple City	0	0	0	1	0	0	0
1381	Temple City	0	0	0	0	0	0	0
1382	Temple City	0	0	0	0	0	0	0
1383	Torrance	0	0	0	1	0	0	0
1384	Torrance	0	0	0	0	0	0	0
1385	Torrance	1	0	0	0	0	0	0
1386	Torrance	0	0	0	0	0	0	0
1387	Torrance	0	0	0	0	0	0	0
1388	Torrance	0	0	0	0	0	0	0
1389	Torrance	0	0	0	0	0	0	0
1390	Torrance	0	0	0	0	0	0	0
1391	Torrance	0	0	0	0	0	0	0
1392	Torrance	0	0	0	0	0	0	0
1393	Torrance	0	0	0	0	0	0	0
1394	Torrance	0	0	0	0	0	0	0
1395	Torrance	1	0	0	0	0	0	0
1396	Torrance	0	0	0	0	0	0	0
1397	Torrance	0	0	0	0	0	0	0

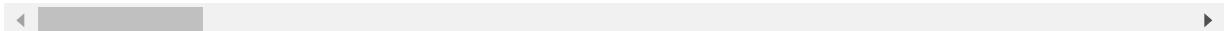
	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1398	Torrance	0	0	0	0	0	0	0
1399	Torrance	0	0	0	0	0	0	0
1400	Torrance	0	0	0	0	0	0	0
1401	Torrance	0	0	0	0	0	0	0
1402	Torrance	0	0	0	0	0	0	0
1403	Torrance	0	0	0	1	0	0	0
1404	Torrance	0	0	0	0	0	0	0
1405	Torrance	0	0	0	0	0	0	0
1406	Torrance	0	0	0	0	0	0	0
1407	Walnut	0	0	0	0	0	0	0
1408	Walnut	0	0	0	0	0	0	0
1409	Walnut	0	0	0	0	0	0	0
1410	Walnut	0	0	0	0	0	0	0
1411	Walnut	0	0	0	0	0	0	0
1412	Walnut	0	0	0	0	0	0	0
1413	Walnut	0	0	0	0	0	0	0
1414	Walnut	0	0	0	1	0	0	0
1415	Walnut	0	0	0	0	0	0	0
1416	Walnut	0	0	0	0	0	0	0
1417	Walnut	0	0	0	0	0	0	0
1418	Walnut	0	0	0	0	0	0	0
1419	Walnut	0	0	0	0	0	0	0
1420	Walnut	0	0	0	0	0	0	0
1421	Walnut	0	0	0	0	0	0	0
1422	Walnut	0	0	0	0	0	0	0
1423	Walnut	0	0	0	0	0	0	0
1424	Walnut	0	0	0	0	0	0	0
1425	Walnut	0	0	0	0	0	0	0
1426	Walnut	0	0	0	0	0	0	0
1427	Walnut	0	0	0	0	0	0	0
1428	Walnut	0	0	0	0	0	0	0
1429	Walnut	0	0	0	0	0	0	0
1430	Walnut	0	0	0	0	0	0	0
1431	Walnut	0	0	0	0	0	0	0
1432	Walnut	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1433	Walnut	0	0	0	0	0	0	0
1434	Walnut	1	0	0	0	0	0	0
1435	West Covina	0	0	0	0	0	0	0
1436	West Covina	0	0	0	0	0	0	0
1437	West Covina	0	0	0	0	0	0	0
1438	West Covina	0	0	0	0	0	0	0
1439	West Covina	0	0	0	0	0	0	0
1440	West Covina	0	0	0	0	0	0	0
1441	West Covina	0	0	0	0	0	0	0
1442	West Covina	0	0	0	0	0	0	0
1443	West Covina	0	0	0	0	0	0	0
1444	West Covina	0	0	0	0	0	0	0
1445	West Covina	1	0	0	0	0	0	0
1446	West Covina	0	0	0	0	0	0	0
1447	West Covina	0	0	0	0	0	0	0
1448	West Covina	0	0	0	0	0	0	0
1449	West Covina	0	0	0	0	0	0	0
1450	West Covina	0	0	0	0	0	0	0
1451	West Covina	0	0	0	0	0	0	0
1452	West Covina	0	0	0	0	0	0	0
1453	West Covina	0	0	0	0	0	0	0
1454	West Covina	0	0	0	0	0	0	0
1455	West Covina	0	0	0	1	0	0	0
1456	West Covina	0	0	0	1	0	0	0
1457	West Covina	0	0	0	1	0	0	0
1458	West Covina	0	0	0	0	0	0	0
1459	West Covina	0	0	0	0	0	0	0
1460	West Covina	0	0	0	0	0	0	0
1461	West Covina	0	0	0	0	0	0	0
1462	West Covina	0	0	0	0	0	0	0
1463	West Covina	0	0	0	0	0	0	0
1464	Westlake Village	0	0	0	0	0	0	0
1465	Westlake Village	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1466	Westlake Village	0	0	0	0	0	0	0
1467	Westlake Village	0	0	0	0	0	0	0
1468	Westlake Village	0	0	0	0	0	0	0
1469	Westlake Village	0	0	0	0	0	0	0
1470	Westlake Village	0	0	0	0	0	0	0
1471	Westlake Village	0	0	0	0	0	0	0
1472	Westlake Village	0	0	0	0	0	0	0
1473	Westlake Village	1	0	0	0	0	0	0
1474	Westlake Village	0	0	0	0	0	0	0
1475	Westlake Village	0	0	0	0	0	0	0
1476	Westlake Village	0	0	0	0	0	0	0
1477	Westlake Village	1	0	0	0	0	0	0
1478	Westlake Village	0	0	0	0	0	0	0
1479	Westlake Village	0	0	0	0	0	0	0
1480	Westlake Village	0	0	0	0	0	0	0
1481	Westlake Village	0	0	0	1	0	0	0
1482	Westlake Village	1	0	0	0	0	0	0
1483	Westlake Village	0	0	0	0	0	0	0
1484	Westlake Village	0	0	0	0	0	0	0
1485	Westlake Village	0	0	0	0	0	0	0
1486	Westlake Village	0	0	0	0	0	0	0
1487	Westlake Village	0	0	0	0	0	0	0
1488	Westlake Village	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1489	Westlake Village	0	0	0	0	0	0	0
1490	Westlake Village	0	0	0	0	0	0	0
1491	Westlake Village	0	0	0	0	0	0	0
1492	Westlake Village	0	0	0	0	0	0	0
1493	Westlake Village	0	0	0	0	0	0	0
1494	Westlake Village	0	0	0	0	0	0	0
1495	Westlake Village	0	0	0	0	0	0	0
1496	Westlake Village	0	0	0	0	0	0	0
1497	Westlake Village	1	0	0	0	0	0	0
1498	Westlake Village	1	0	0	0	0	0	0
1499	Westlake Village	0	0	0	0	0	0	0
1500	Westlake Village	0	0	0	0	0	0	0
1501	Whittier	1	0	0	0	0	0	0
1502	Whittier	1	0	0	0	0	0	0
1503	Whittier	0	0	0	0	0	0	0
1504	Whittier	0	0	0	0	0	0	0
1505	Whittier	0	0	0	0	0	0	0
1506	Whittier	0	0	0	0	0	0	0
1507	Whittier	0	0	0	0	0	0	0
1508	Whittier	1	0	0	0	0	0	0
1509	Whittier	0	0	0	0	0	0	0
1510	Whittier	0	0	0	0	0	0	0
1511	Whittier	0	0	0	0	0	0	0
1512	Whittier	0	0	0	0	0	0	0
1513	Whittier	0	0	0	0	0	0	0
1514	Whittier	0	0	0	0	0	0	0
1515	Whittier	0	0	0	0	0	0	0
1516	Whittier	0	0	0	0	0	0	0
1517	Whittier	0	0	0	0	0	0	0

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	Re
1518	Whittier	0	0	0	0	0	0	0
1519	Whittier	0	0	0	0	0	0	0
1520	Whittier	0	0	0	0	0	0	0
1521	Whittier	0	0	0	0	0	0	0
1522	Whittier	0	0	0	0	0	0	0



In [45]: `# New dataframe size.
LA_onehot.shape`

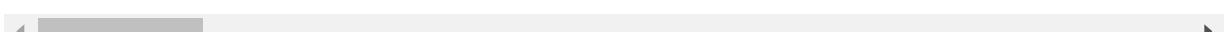
Out[45]: (1522, 56)

In [46]: `# H: Grouping by neighbourhoods and showing the mean of the frequency of occurrence for each category of restaurants.`

In [47]: `LA_grouped = LA_onehot.groupby('Neighborhood').mean().reset_index()
LA_grouped.head()`

Out[47]:

	Neighborhood	American Restaurant	Andhra Restaurant	Argentinian Restaurant	Asian Restaurant	Australian Restaurant	Brazilian Restaurant	C C Resta
0	Agoura Hills	0.031250	0.0	0.0	0.031250	0.0	0.0	0.0
1	Alhambra	0.031250	0.0	0.0	0.000000	0.0	0.0	0.0
2	Arcadia	0.090909	0.0	0.0	0.045455	0.0	0.0	0.0
3	Artesia	0.048780	0.0	0.0	0.048780	0.0	0.0	0.0
4	Azusa	0.238095	0.0	0.0	0.000000	0.0	0.0	0.0



In [48]: `LA_grouped.shape`

Out[48]: (57, 56)

```
In [49]: num_top_venues = 10
```

```
for hood in LA_grouped['Neighborhood']:
    print("----"+hood+"----")
    temp = LA_grouped[LA_grouped['Neighborhood'] == hood].T.reset_index()
    temp.columns = ['venue', 'freq']
    temp = temp.iloc[1:]
    temp['freq'] = temp['freq'].astype(float)
    temp = temp.round({'freq': 2})
    print(temp.sort_values('freq', ascending=False).reset_index(drop=True).head(num_top_venues))
    print('\n')
```

----Agoura Hills----

	venue	freq
0	Mexican Restaurant	0.19
1	Fast Food Restaurant	0.12
2	Indian Restaurant	0.09
3	Chinese Restaurant	0.09
4	Japanese Restaurant	0.06
5	Italian Restaurant	0.06
6	Restaurant	0.06
7	Seafood Restaurant	0.03
8	Middle Eastern Restaurant	0.03
9	Indian Chinese Restaurant	0.03

----Alhambra----

	venue	freq
0	Spanish Restaurant	0.28
1	Restaurant	0.22
2	Tapas Restaurant	0.22
3	Italian Restaurant	0.12
4	Mediterranean Restaurant	0.03
5	Fast Food Restaurant	0.03
6	Seafood Restaurant	0.03
7	American Restaurant	0.03
8	Japanese Restaurant	0.03
9	New American Restaurant	0.00

----Arcadia----

	venue	freq
0	Sushi Restaurant	0.14
1	Mexican Restaurant	0.14
2	American Restaurant	0.09
3	Fast Food Restaurant	0.09
4	Dumpling Restaurant	0.09
5	Chinese Restaurant	0.09
6	Cantonese Restaurant	0.05
7	Szechuan Restaurant	0.05
8	Tex-Mex Restaurant	0.05
9	Thai Restaurant	0.05

----Artesia----

	venue	freq
0	Indian Restaurant	0.17
1	Chinese Restaurant	0.07
2	Italian Restaurant	0.07
3	Thai Restaurant	0.07
4	Korean Restaurant	0.07
5	American Restaurant	0.05
6	Japanese Restaurant	0.05
7	Mediterranean Restaurant	0.05
8	Filipino Restaurant	0.05
9	Seafood Restaurant	0.05

----Azusa----

	venue	freq
0	Mexican Restaurant	0.29
1	American Restaurant	0.24
2	Fast Food Restaurant	0.19
3	Restaurant	0.10
4	Thai Restaurant	0.05
5	Italian Restaurant	0.05
6	Middle Eastern Restaurant	0.05
7	Chinese Restaurant	0.05
8	Malay Restaurant	0.00
9	Mediterranean Restaurant	0.00

----Baldwin Park----

	venue	freq
0	Mexican Restaurant	0.54
1	Fast Food Restaurant	0.29
2	Asian Restaurant	0.04
3	Italian Restaurant	0.04
4	Hawaiian Restaurant	0.04
5	Latin American Restaurant	0.04
6	American Restaurant	0.00
7	Mediterranean Restaurant	0.00
8	Middle Eastern Restaurant	0.00
9	Modern European Restaurant	0.00

----Beverly Hills----

	venue	freq
0	American Restaurant	0.27
1	Italian Restaurant	0.23
2	Mediterranean Restaurant	0.12
3	Sushi Restaurant	0.08
4	Restaurant	0.08
5	French Restaurant	0.04
6	Mexican Restaurant	0.04
7	Seafood Restaurant	0.04
8	Moroccan Restaurant	0.04
9	Greek Restaurant	0.04

----Bradbury----

	venue	freq
0	Mexican Restaurant	0.25
1	Fast Food Restaurant	0.19
2	Italian Restaurant	0.09
3	American Restaurant	0.06
4	Sushi Restaurant	0.06
5	Mediterranean Restaurant	0.06
6	Thai Restaurant	0.06
7	French Restaurant	0.03
8	Japanese Restaurant	0.03
9	Chinese Restaurant	0.03

----Burbank----

	venue	freq
--	-------	------

0	American Restaurant	0.17
1	Mexican Restaurant	0.17
2	Sushi Restaurant	0.09
3	Mediterranean Restaurant	0.09
4	Fast Food Restaurant	0.09
5	Cuban Restaurant	0.04
6	Thai Restaurant	0.04
7	Middle Eastern Restaurant	0.04
8	Japanese Restaurant	0.04
9	Italian Restaurant	0.04

----Calabasas----

	venue	freq
0	Italian Restaurant	0.22
1	Sushi Restaurant	0.22
2	Seafood Restaurant	0.22
3	American Restaurant	0.11
4	New American Restaurant	0.11
5	Fast Food Restaurant	0.11
6	Ramen Restaurant	0.00
7	Malay Restaurant	0.00
8	Mediterranean Restaurant	0.00
9	Mexican Restaurant	0.00

----Cerritos----

	venue	freq
0	Indian Restaurant	0.19
1	Mexican Restaurant	0.14
2	American Restaurant	0.08
3	Chinese Restaurant	0.08
4	Italian Restaurant	0.08
5	Filipino Restaurant	0.08
6	Asian Restaurant	0.05
7	Korean Restaurant	0.05
8	Fast Food Restaurant	0.03
9	Vegetarian / Vegan Restaurant	0.03

----Claremont----

	venue	freq
0	American Restaurant	0.17
1	Mexican Restaurant	0.17
2	Fast Food Restaurant	0.14
3	Italian Restaurant	0.10
4	Thai Restaurant	0.10
5	Mediterranean Restaurant	0.10
6	Restaurant	0.10
7	Chinese Restaurant	0.03
8	Japanese Restaurant	0.03
9	Sushi Restaurant	0.03

----Covina----

	venue	freq
0	Mexican Restaurant	0.26

1	American Restaurant	0.21
2	Fast Food Restaurant	0.15
3	Chinese Restaurant	0.06
4	Thai Restaurant	0.03
5	Tex-Mex Restaurant	0.03
6	Sushi Restaurant	0.03
7	Seafood Restaurant	0.03
8	Scandinavian Restaurant	0.03
9	Peruvian Restaurant	0.03

----Culver City----

	venue	freq
0	Sushi Restaurant	0.14
1	Mexican Restaurant	0.09
2	Indonesian Restaurant	0.09
3	New American Restaurant	0.09
4	Mediterranean Restaurant	0.09
5	Japanese Restaurant	0.05
6	Italian Restaurant	0.05
7	Indian Restaurant	0.05
8	French Restaurant	0.05
9	Cuban Restaurant	0.05

----Diamond Bar----

	venue	freq
0	Fast Food Restaurant	0.29
1	Chinese Restaurant	0.14
2	American Restaurant	0.07
3	Mexican Restaurant	0.07
4	Korean Restaurant	0.07
5	Japanese Restaurant	0.07
6	Vietnamese Restaurant	0.07
7	Seafood Restaurant	0.04
8	Asian Restaurant	0.04
9	Tex-Mex Restaurant	0.04

----Downey----

	venue	freq
0	Mexican Restaurant	0.16
1	American Restaurant	0.10
2	Seafood Restaurant	0.10
3	Sushi Restaurant	0.06
4	Japanese Restaurant	0.06
5	Italian Restaurant	0.06
6	Chinese Restaurant	0.06
7	Fast Food Restaurant	0.06
8	Argentinian Restaurant	0.03
9	Peruvian Restaurant	0.03

----El Segundo----

	venue	freq
0	Mexican Restaurant	0.27
1	Italian Restaurant	0.14

2	American Restaurant	0.09
3	Fast Food Restaurant	0.09
4	Restaurant	0.09
5	Seafood Restaurant	0.09
6	Cuban Restaurant	0.05
7	Mediterranean Restaurant	0.05
8	Japanese Restaurant	0.05
9	Sushi Restaurant	0.05

----Glendale----

	venue	freq
0	Middle Eastern Restaurant	0.12
1	Mediterranean Restaurant	0.12
2	Japanese Restaurant	0.12
3	Asian Restaurant	0.09
4	Fast Food Restaurant	0.06
5	Seafood Restaurant	0.06
6	Ramen Restaurant	0.06
7	Italian Restaurant	0.06
8	American Restaurant	0.03
9	Thai Restaurant	0.03

----Glendora----

	venue	freq
0	American Restaurant	0.31
1	Mexican Restaurant	0.19
2	Fast Food Restaurant	0.15
3	Mediterranean Restaurant	0.08
4	Chinese Restaurant	0.04
5	Thai Restaurant	0.04
6	Middle Eastern Restaurant	0.04
7	Japanese Restaurant	0.04
8	Italian Restaurant	0.04
9	Vietnamese Restaurant	0.04

----Hermosa Beach----

	venue	freq
0	Mexican Restaurant	0.21
1	Italian Restaurant	0.13
2	American Restaurant	0.10
3	Seafood Restaurant	0.10
4	Sushi Restaurant	0.08
5	Vegetarian / Vegan Restaurant	0.05
6	Asian Restaurant	0.05
7	Mediterranean Restaurant	0.03
8	Japanese Restaurant	0.03
9	New American Restaurant	0.03

----Hidden Hills----

	venue	freq
0	Fast Food Restaurant	0.31
1	Sushi Restaurant	0.15
2	Seafood Restaurant	0.15

3	American Restaurant	0.08
4	Italian Restaurant	0.08
5	Mexican Restaurant	0.08
6	Chinese Restaurant	0.08
7	New American Restaurant	0.08
8	Malay Restaurant	0.00
9	Mediterranean Restaurant	0.00

----La Cañada Flintridge----

	venue	freq
0	Mexican Restaurant	0.16
1	Italian Restaurant	0.16
2	American Restaurant	0.06
3	Sushi Restaurant	0.06
4	Japanese Restaurant	0.06
5	New American Restaurant	0.06
6	Chinese Restaurant	0.06
7	Mediterranean Restaurant	0.06
8	Korean Restaurant	0.03
9	Southern / Soul Food Restaurant	0.03

----La Habra Heights----

	venue	freq
0	Mexican Restaurant	0.31
1	Fast Food Restaurant	0.23
2	American Restaurant	0.08
3	Middle Eastern Restaurant	0.08
4	Sushi Restaurant	0.08
5	Chinese Restaurant	0.08
6	Southern / Soul Food Restaurant	0.08
7	Seafood Restaurant	0.08
8	Malay Restaurant	0.00
9	Mediterranean Restaurant	0.00

----La Mirada----

	venue	freq
0	Fast Food Restaurant	0.25
1	Mexican Restaurant	0.21
2	American Restaurant	0.11
3	Sushi Restaurant	0.11
4	Korean Restaurant	0.11
5	Japanese Restaurant	0.07
6	Chinese Restaurant	0.04
7	Italian Restaurant	0.04
8	Vietnamese Restaurant	0.04
9	Asian Restaurant	0.04

----La Puente----

	venue	freq
0	Mexican Restaurant	0.35
1	Sushi Restaurant	0.20
2	Chinese Restaurant	0.10
3	Seafood Restaurant	0.10

4	Latin American Restaurant	0.05
5	South American Restaurant	0.05
6	Japanese Restaurant	0.05
7	Indian Restaurant	0.05
8	Fast Food Restaurant	0.05
9	Modern European Restaurant	0.00

----La Verne----

	venue	freq
0	Mexican Restaurant	0.28
1	Fast Food Restaurant	0.20
2	Japanese Restaurant	0.08
3	Chinese Restaurant	0.08
4	Italian Restaurant	0.08
5	Mediterranean Restaurant	0.08
6	American Restaurant	0.04
7	Tex-Mex Restaurant	0.04
8	Thai Restaurant	0.04
9	Asian Restaurant	0.04

----Lakewood----

	venue	freq
0	American Restaurant	0.20
1	Mexican Restaurant	0.20
2	Fast Food Restaurant	0.16
3	Italian Restaurant	0.12
4	Chinese Restaurant	0.08
5	Vietnamese Restaurant	0.08
6	Thai Restaurant	0.04
7	Tex-Mex Restaurant	0.04
8	Sushi Restaurant	0.04
9	Indian Restaurant	0.04

----Lomita----

	venue	freq
0	Japanese Restaurant	0.22
1	Mexican Restaurant	0.08
2	Sushi Restaurant	0.08
3	Greek Restaurant	0.05
4	Hawaiian Restaurant	0.05
5	Asian Restaurant	0.05
6	Seafood Restaurant	0.05
7	Korean Restaurant	0.05
8	Indian Restaurant	0.03
9	Italian Restaurant	0.03

----Long Beach----

	venue	freq
0	Mexican Restaurant	0.29
1	American Restaurant	0.19
2	Seafood Restaurant	0.16
3	Thai Restaurant	0.10
4	Chinese Restaurant	0.03

5	Vegetarian / Vegan Restaurant	0.03
6	Latin American Restaurant	0.03
7	Korean Restaurant	0.03
8	Italian Restaurant	0.03
9	Greek Restaurant	0.03

----Malibu----

	venue	freq
0	American Restaurant	0.16
1	Italian Restaurant	0.16
2	Seafood Restaurant	0.16
3	New American Restaurant	0.11
4	Asian Restaurant	0.05
5	Cuban Restaurant	0.05
6	Mediterranean Restaurant	0.05
7	Mexican Restaurant	0.05
8	Greek Restaurant	0.05
9	Thai Restaurant	0.05

----Manhattan Beach----

	venue	freq
0	American Restaurant	0.19
1	Mexican Restaurant	0.15
2	Sushi Restaurant	0.07
3	Italian Restaurant	0.07
4	Mediterranean Restaurant	0.07
5	Restaurant	0.07
6	Seafood Restaurant	0.07
7	Japanese Restaurant	0.07
8	Vegetarian / Vegan Restaurant	0.07
9	Asian Restaurant	0.07

----Monrovia----

	venue	freq
0	Restaurant	0.5
1	Sushi Restaurant	0.5
2	American Restaurant	0.0
3	Latin American Restaurant	0.0
4	Malay Restaurant	0.0
5	Mediterranean Restaurant	0.0
6	Mexican Restaurant	0.0
7	Middle Eastern Restaurant	0.0
8	Modern European Restaurant	0.0
9	Moroccan Restaurant	0.0

----Monterey Park----

	venue	freq
0	Chinese Restaurant	0.29
1	Vietnamese Restaurant	0.12
2	Mexican Restaurant	0.12
3	Asian Restaurant	0.10
4	Sushi Restaurant	0.06
5	Japanese Restaurant	0.06

6	Thai Restaurant	0.04
7	Szechuan Restaurant	0.04
8	Restaurant	0.04
9	Dim Sum Restaurant	0.04

----Norwalk----

	venue	freq
0	Italian Restaurant	0.18
1	Tapas Restaurant	0.12
2	Mexican Restaurant	0.09
3	American Restaurant	0.06
4	South American Restaurant	0.06
5	Indian Restaurant	0.06
6	New American Restaurant	0.06
7	Greek Restaurant	0.06
8	Restaurant	0.06
9	Sushi Restaurant	0.06

----Palos Verdes Estates----

	venue	freq
0	Mexican Restaurant	0.33
1	American Restaurant	0.17
2	Mediterranean Restaurant	0.17
3	Sushi Restaurant	0.17
4	Vietnamese Restaurant	0.17
5	Brazilian Restaurant	0.00
6	Scandinavian Restaurant	0.00
7	Australian Restaurant	0.00
8	Asian Restaurant	0.00
9	Middle Eastern Restaurant	0.00

----Pasadena----

	venue	freq
0	Vegetarian / Vegan Restaurant	0.17
1	Italian Restaurant	0.17
2	American Restaurant	0.12
3	Thai Restaurant	0.08
4	Japanese Restaurant	0.08
5	New American Restaurant	0.04
6	Asian Restaurant	0.04
7	Sushi Restaurant	0.04
8	Indonesian Restaurant	0.04
9	Mediterranean Restaurant	0.04

----Pico Rivera----

	venue	freq
0	Mexican Restaurant	0.50
1	Fast Food Restaurant	0.23
2	Chinese Restaurant	0.07
3	American Restaurant	0.03
4	Sushi Restaurant	0.03
5	Seafood Restaurant	0.03
6	Tex-Mex Restaurant	0.03

7	Thai Restaurant	0.03
8	Asian Restaurant	0.03
9	Tapas Restaurant	0.00

----Rancho Palos Verdes----

	venue	freq
0	American Restaurant	0.27
1	Italian Restaurant	0.20
2	Mexican Restaurant	0.13
3	Seafood Restaurant	0.07
4	Peruvian Restaurant	0.07
5	New American Restaurant	0.07
6	Mediterranean Restaurant	0.07
7	Vietnamese Restaurant	0.07
8	Asian Restaurant	0.07
9	Cantonese Restaurant	0.00

----Redondo Beach----

	venue	freq
0	Seafood Restaurant	0.23
1	Mexican Restaurant	0.15
2	American Restaurant	0.15
3	Sushi Restaurant	0.08
4	Vegetarian / Vegan Restaurant	0.05
5	French Restaurant	0.05
6	Asian Restaurant	0.03
7	Ramen Restaurant	0.03
8	Restaurant	0.03
9	Australian Restaurant	0.03

----Rolling Hills----

	venue	freq
0	Italian Restaurant	0.27
1	Mexican Restaurant	0.27
2	Vietnamese Restaurant	0.09
3	Mediterranean Restaurant	0.09
4	New American Restaurant	0.09
5	Seafood Restaurant	0.09
6	Peruvian Restaurant	0.09
7	Ramen Restaurant	0.00
8	Latin American Restaurant	0.00
9	Malay Restaurant	0.00

----Rolling Hills Estates----

	venue	freq
0	Italian Restaurant	0.14
1	Mexican Restaurant	0.12
2	Sushi Restaurant	0.12
3	Seafood Restaurant	0.07
4	Japanese Restaurant	0.07
5	Indian Restaurant	0.05
6	Greek Restaurant	0.05
7	Peruvian Restaurant	0.05

8	Fast Food Restaurant	0.05
9	Mediterranean Restaurant	0.05

----San Dimas----

	venue	freq
0	Fast Food Restaurant	0.32
1	American Restaurant	0.16
2	Mexican Restaurant	0.16
3	Sushi Restaurant	0.11
4	Thai Restaurant	0.05
5	Tex-Mex Restaurant	0.05
6	Mediterranean Restaurant	0.05
7	Italian Restaurant	0.05
8	Vietnamese Restaurant	0.05
9	Caribbean Restaurant	0.00

----San Fernando----

	venue	freq
0	Spanish Restaurant	0.41
1	Fast Food Restaurant	0.18
2	Seafood Restaurant	0.18
3	American Restaurant	0.06
4	Italian Restaurant	0.06
5	Mediterranean Restaurant	0.06
6	Restaurant	0.06
7	Szechuan Restaurant	0.00
8	Persian Restaurant	0.00
9	Vegetarian / Vegan Restaurant	0.00

----San Gabriel----

	venue	freq
0	Chinese Restaurant	0.28
1	Vietnamese Restaurant	0.15
2	Seafood Restaurant	0.07
3	Korean Restaurant	0.07
4	Thai Restaurant	0.04
5	Mexican Restaurant	0.04
6	Italian Restaurant	0.04
7	Fast Food Restaurant	0.04
8	American Restaurant	0.04
9	Asian Restaurant	0.04

----San Marino----

	venue	freq
0	Italian Restaurant	0.70
1	Restaurant	0.26
2	American Restaurant	0.04
3	Thai Restaurant	0.00
4	Peruvian Restaurant	0.00
5	Vegetarian / Vegan Restaurant	0.00
6	Latin American Restaurant	0.00
7	Malay Restaurant	0.00
8	Mediterranean Restaurant	0.00

9 Mexican Restaurant 0.00

----Santa Clarita----

	venue	freq
0	Mexican Restaurant	0.30
1	Sushi Restaurant	0.13
2	Fast Food Restaurant	0.09
3	Chinese Restaurant	0.09
4	American Restaurant	0.04
5	Japanese Restaurant	0.04
6	Italian Restaurant	0.04
7	Restaurant	0.04
8	Comfort Food Restaurant	0.04
9	Seafood Restaurant	0.04

----Santa Fe Springs----

	venue	freq
0	Fast Food Restaurant	0.34
1	Mexican Restaurant	0.24
2	Seafood Restaurant	0.10
3	Thai Restaurant	0.07
4	Asian Restaurant	0.07
5	American Restaurant	0.03
6	Chinese Restaurant	0.03
7	Sushi Restaurant	0.03
8	Restaurant	0.03
9	Vietnamese Restaurant	0.03

----Santa Monica----

	venue	freq
0	American Restaurant	0.22
1	Mexican Restaurant	0.17
2	Seafood Restaurant	0.17
3	Restaurant	0.09
4	New American Restaurant	0.09
5	Sushi Restaurant	0.09
6	Caribbean Restaurant	0.04
7	Italian Restaurant	0.04
8	Mediterranean Restaurant	0.04
9	Asian Restaurant	0.04

----Sierra Madre----

	venue	freq
0	American Restaurant	0.19
1	Mexican Restaurant	0.19
2	Japanese Restaurant	0.14
3	Chinese Restaurant	0.14
4	Sushi Restaurant	0.10
5	Fast Food Restaurant	0.10
6	Thai Restaurant	0.05
7	Greek Restaurant	0.05
8	Dumpling Restaurant	0.05
9	Mediterranean Restaurant	0.00

----Signal Hill----

	venue	freq
0	Mexican Restaurant	0.30
1	American Restaurant	0.10
2	Fast Food Restaurant	0.10
3	Thai Restaurant	0.10
4	Seafood Restaurant	0.07
5	Japanese Restaurant	0.07
6	Vietnamese Restaurant	0.07
7	Cambodian Restaurant	0.03
8	Hawaiian Restaurant	0.03
9	Tapas Restaurant	0.03

----South Pasadena----

	venue	freq
0	Mexican Restaurant	0.12
1	Italian Restaurant	0.12
2	American Restaurant	0.08
3	Thai Restaurant	0.08
4	Restaurant	0.08
5	Chinese Restaurant	0.08
6	Fast Food Restaurant	0.08
7	Dumpling Restaurant	0.04
8	Vegetarian / Vegan Restaurant	0.04
9	Sushi Restaurant	0.04

----Temple City----

	venue	freq
0	Chinese Restaurant	0.22
1	Korean Restaurant	0.12
2	Mexican Restaurant	0.10
3	Vietnamese Restaurant	0.08
4	Fast Food Restaurant	0.08
5	Szechuan Restaurant	0.05
6	Italian Restaurant	0.05
7	American Restaurant	0.05
8	Asian Restaurant	0.05
9	Hotpot Restaurant	0.02

----Torrance----

	venue	freq
0	Japanese Restaurant	0.21
1	American Restaurant	0.08
2	Fast Food Restaurant	0.08
3	Asian Restaurant	0.08
4	New American Restaurant	0.08
5	Korean Restaurant	0.08
6	Thai Restaurant	0.04
7	Restaurant	0.04
8	Ramen Restaurant	0.04
9	Mexican Restaurant	0.04

----Walnut----

	venue	freq
0	Korean Restaurant	0.18
1	Chinese Restaurant	0.14
2	Mexican Restaurant	0.11
3	Fast Food Restaurant	0.11
4	Japanese Restaurant	0.07
5	Indian Restaurant	0.07
6	New American Restaurant	0.07
7	Seafood Restaurant	0.07
8	Persian Restaurant	0.04
9	Restaurant	0.04

----West Covina----

	venue	freq
0	Mexican Restaurant	0.24
1	Fast Food Restaurant	0.17
2	Asian Restaurant	0.10
3	Thai Restaurant	0.10
4	Italian Restaurant	0.07
5	American Restaurant	0.03
6	Vegetarian / Vegan Restaurant	0.03
7	Sushi Restaurant	0.03
8	New American Restaurant	0.03
9	Malay Restaurant	0.03

----Westlake Village----

	venue	freq
0	American Restaurant	0.14
1	Mexican Restaurant	0.11
2	Italian Restaurant	0.11
3	Seafood Restaurant	0.08
4	Vegetarian / Vegan Restaurant	0.08
5	Sushi Restaurant	0.08
6	Fast Food Restaurant	0.08
7	Indian Restaurant	0.05
8	New American Restaurant	0.05
9	Indian Chinese Restaurant	0.03

----Whittier----

	venue	freq
0	Mexican Restaurant	0.27
1	Fast Food Restaurant	0.18
2	American Restaurant	0.14
3	Japanese Restaurant	0.09
4	Vietnamese Restaurant	0.09
5	Latin American Restaurant	0.05
6	Chinese Restaurant	0.05
7	Italian Restaurant	0.05
8	Sushi Restaurant	0.05
9	Seafood Restaurant	0.05

```
In [50]: # J: Creating a pandas dataframe.
```

```
In [51]: def return_most_common_venues(row, num_top_venues):
    row_categories = row.iloc[1:]
    row_categories_sorted = row_categories.sort_values(ascending=False)

    return row_categories_sorted.index.values[0:num_top_venues]
```

```
In [52]: num_top_venues = 10

indicators = ['st', 'nd', 'rd']

# create columns according to number of top venues
columns = ['Neighborhood']
for ind in np.arange(num_top_venues):
    try:
        columns.append('{}{} Most Common Venue'.format(ind+1, indicators[ind]))
    except:
        columns.append('{}th Most Common Venue'.format(ind+1))

# create a new dataframe
neighborhoods_venues_sorted = pd.DataFrame(columns=columns)
neighborhoods_venues_sorted['Neighborhood'] = LA_grouped['Neighborhood']

for ind in np.arange(LA_grouped.shape[0]):
    neighborhoods_venues_sorted.iloc[ind, 1:] = return_most_common_venues(LA_grouped.iloc[ind, :], num_top_venues)

neighborhoods_venues_sorted.head(23)
```

Out[52]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Common Ven
0	Agoura Hills	Mexican Restaurant	Fast Food Restaurant	Chinese Restaurant	Indian Restaurant	Italian Restaurant	Restaurant
1	Alhambra	Spanish Restaurant	Tapas Restaurant	Restaurant	Italian Restaurant	Seafood Restaurant	Fast Restaurant
2	Arcadia	Mexican Restaurant	Sushi Restaurant	American Restaurant	Fast Food Restaurant	Dumpling Restaurant	Chinese Restaurant
3	Artesia	Indian Restaurant	Thai Restaurant	Korean Restaurant	Chinese Restaurant	Italian Restaurant	American Restaurant
4	Azusa	Mexican Restaurant	American Restaurant	Fast Food Restaurant	Restaurant	Thai Restaurant	Latin Restaurant
5	Baldwin Park	Mexican Restaurant	Fast Food Restaurant	Italian Restaurant	Asian Restaurant	Latin American Restaurant	Hawaiian Restaurant
6	Beverly Hills	American Restaurant	Italian Restaurant	Mediterranean Restaurant	Restaurant	Sushi Restaurant	New American Restaurant
7	Bradbury	Mexican Restaurant	Fast Food Restaurant	Italian Restaurant	American Restaurant	Thai Restaurant	Mediterranean Restaurant
8	Burbank	American Restaurant	Mexican Restaurant	Fast Food Restaurant	Sushi Restaurant	Mediterranean Restaurant	North East Restaurant
9	Calabasas	Italian Restaurant	Sushi Restaurant	Seafood Restaurant	Fast Food Restaurant	New American Restaurant	American Restaurant
10	Cerritos	Indian Restaurant	Mexican Restaurant	American Restaurant	Chinese Restaurant	Filipino Restaurant	International Restaurant
11	Claremont	American Restaurant	Mexican Restaurant	Fast Food Restaurant	Mediterranean Restaurant	Thai Restaurant	International Restaurant
12	Covina	Mexican Restaurant	American Restaurant	Fast Food Restaurant	Chinese Restaurant	Seafood Restaurant	Restaurant
13	Culver City	Sushi Restaurant	New American Restaurant	Mexican Restaurant	Indonesian Restaurant	Mediterranean Restaurant	American Restaurant
14	Diamond Bar	Fast Food Restaurant	Chinese Restaurant	Vietnamese Restaurant	Mexican Restaurant	Japanese Restaurant	Korean Restaurant
15	Downey	Mexican Restaurant	American Restaurant	Seafood Restaurant	Italian Restaurant	Fast Food Restaurant	Japanese Restaurant
16	El Segundo	Mexican Restaurant	Italian Restaurant	American Restaurant	Fast Food Restaurant	Restaurant	South East Restaurant
17	Glendale	Japanese Restaurant	Mediterranean Restaurant	Middle Eastern Restaurant	Asian Restaurant	Ramen Restaurant	Fast Restaurant
18	Glendora	American Restaurant	Mexican Restaurant	Fast Food Restaurant	Mediterranean Restaurant	Middle Eastern Restaurant	Argentinian Restaurant

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Con \
19	Hermosa Beach	Mexican Restaurant	Italian Restaurant	American Restaurant	Seafood Restaurant	Sushi Restaurant	Resta
20	Hidden Hills	Fast Food Restaurant	Sushi Restaurant	Seafood Restaurant	American Restaurant	New American Restaurant	Inte
21	La Cañada Flintridge	Italian Restaurant	Mexican Restaurant	American Restaurant	Sushi Restaurant	Japanese Restaurant	Mediterrane
22	La Habra Heights	Mexican Restaurant	Fast Food Restaurant	American Restaurant	Southern / Soul Food Restaurant	Chinese Restaurant	Asian Resta

2e: Cluster the neighbourhoods with k-means

```
In [53]: # set number of clusters (I choose 5)
kclusters = 5

LA_grouped_clustering = LA_grouped.drop('Neighborhood', 1)

# run k-means clustering
kmeans = KMeans(n_clusters=kclusters, random_state=0).fit(LA_grouped_clustering)

# check cluster Labels generated for each row in the dataframe
kmeans.labels_[0:10]
```

Out[53]: array([1, 3, 1, 2, 1, 1, 3, 1, 1, 3], dtype=int32)

```
In [54]: LA_merged = df  
LA_merged.head(10)
```

Out[54]:

		City	County	Population	PopDensity	PerCapitalIncome	MedianIncome	FamilyIncome
1		Agoura Hills	Los Angeles	20630	2647.2	\$50,242	107268.0	\$118,673
3		Alhambra	Los Angeles	84400	11060.1	\$24,971	53195.0	\$57,056
6		Arcadia	Los Angeles	57251	5240.4	\$38,582	80147.0	\$93,635
7		Artesia	Los Angeles	16698	10301.0	\$21,688	60544.0	\$62,485
10		Azusa	Los Angeles	47420	4910.9	\$18,159	52087.0	\$57,131
11		Baldwin Park	Los Angeles	76411	11523.3	\$15,419	51189.0	\$51,599
12		Beverly Hills	Los Angeles	34536	6050.5	\$81,788	87366.0	\$123,636
13		Bradbury	Los Angeles	845	431.8	\$76,472	112273.0	\$116,667
14		Burbank	Los Angeles	104484	6025.3	\$33,882	66111.0	\$82,063
15		Calabasas	Los Angeles	23956	1747.8	\$60,703	117176.0	\$136,724



In [55]: neighborhoods_venues_sorted.head(23)

Out[55]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Common Ven
0	Agoura Hills	Mexican Restaurant	Fast Food Restaurant	Chinese Restaurant	Indian Restaurant	Italian Restaurant	Restaurant
1	Alhambra	Spanish Restaurant	Tapas Restaurant	Restaurant	Italian Restaurant	Seafood Restaurant	Fast Restaurant
2	Arcadia	Mexican Restaurant	Sushi Restaurant	American Restaurant	Fast Food Restaurant	Dumpling Restaurant	Chinese Restaurant
3	Artesia	Indian Restaurant	Thai Restaurant	Korean Restaurant	Chinese Restaurant	Italian Restaurant	American Restaurant
4	Azusa	Mexican Restaurant	American Restaurant	Fast Food Restaurant	Restaurant	Thai Restaurant	Latin Restaurant
5	Baldwin Park	Mexican Restaurant	Fast Food Restaurant	Italian Restaurant	Asian Restaurant	Latin American Restaurant	Hawaiian Restaurant
6	Beverly Hills	American Restaurant	Italian Restaurant	Mediterranean Restaurant	Restaurant	Sushi Restaurant	New American Restaurant
7	Bradbury	Mexican Restaurant	Fast Food Restaurant	Italian Restaurant	American Restaurant	Thai Restaurant	Mediterranean Restaurant
8	Burbank	American Restaurant	Mexican Restaurant	Fast Food Restaurant	Sushi Restaurant	Mediterranean Restaurant	North East Restaurant
9	Calabasas	Italian Restaurant	Sushi Restaurant	Seafood Restaurant	Fast Food Restaurant	New American Restaurant	American Restaurant
10	Cerritos	Indian Restaurant	Mexican Restaurant	American Restaurant	Chinese Restaurant	Filipino Restaurant	International Restaurant
11	Claremont	American Restaurant	Mexican Restaurant	Fast Food Restaurant	Mediterranean Restaurant	Thai Restaurant	International Restaurant
12	Covina	Mexican Restaurant	American Restaurant	Fast Food Restaurant	Chinese Restaurant	Seafood Restaurant	Restaurant
13	Culver City	Sushi Restaurant	New American Restaurant	Mexican Restaurant	Indonesian Restaurant	Mediterranean Restaurant	American Restaurant
14	Diamond Bar	Fast Food Restaurant	Chinese Restaurant	Vietnamese Restaurant	Mexican Restaurant	Japanese Restaurant	Korean Restaurant
15	Downey	Mexican Restaurant	American Restaurant	Seafood Restaurant	Italian Restaurant	Fast Food Restaurant	Japanese Restaurant
16	El Segundo	Mexican Restaurant	Italian Restaurant	American Restaurant	Fast Food Restaurant	Restaurant	South East Restaurant
17	Glendale	Japanese Restaurant	Mediterranean Restaurant	Middle Eastern Restaurant	Asian Restaurant	Ramen Restaurant	Fast Restaurant
18	Glendora	American Restaurant	Mexican Restaurant	Fast Food Restaurant	Mediterranean Restaurant	Middle Eastern Restaurant	Argentinian Restaurant

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Con
19	Hermosa Beach	Mexican Restaurant	Italian Restaurant	American Restaurant	Seafood Restaurant	Sushi Restaurant	Resta
20	Hidden Hills	Fast Food Restaurant	Sushi Restaurant	Seafood Restaurant	American Restaurant	New American Restaurant	Int'l Resta
21	La Cañada Flintridge	Italian Restaurant	Mexican Restaurant	American Restaurant	Sushi Restaurant	Japanese Restaurant	Mediterranean Restaurant
22	La Habra Heights	Mexican Restaurant	Fast Food Restaurant	American Restaurant	Southern / Soul Food Restaurant	Chinese Restaurant	Mic East Resta

◀ ▶

In [56]: neighborhoods_venues_sorted_w_clusters = neighborhoods_venues_sorted
neighborhoods_venues_sorted_w_clusters.head()

Out[56]:

	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th M Com
0	Agoura Hills	Mexican Restaurant	Fast Food Restaurant	Chinese Restaurant	Indian Restaurant	Italian Restaurant	Restaurant	Japan Restaur
1	Alhambra	Spanish Restaurant	Tapas Restaurant	Restaurant	Italian Restaurant	Seafood Restaurant	Fast Food Restaurant	Mediterrane Restaur
2	Arcadia	Mexican Restaurant	Sushi Restaurant	American Restaurant	Fast Food Restaurant	Dumpling Restaurant	Chinese Restaurant	Seafo Restaur
3	Artesia	Indian Restaurant	Thai Restaurant	Korean Restaurant	Chinese Restaurant	Italian Restaurant	American Restaurant	Japan Restaur
4	Azusa	Mexican Restaurant	American Restaurant	Fast Food Restaurant	Restaurant	Thai Restaurant	Italian Restaurant	Mic East Restaur

◀ ▶

In [57]: # add clustering Labels
neighborhoods_venues_sorted_w_clusters.insert(0, 'Cluster Labels', kmeans.labels_)

In [58]: neighborhoods_venues_sorted_w_clusters.head()

Out[58]:

Cluster Labels	Neighborhood	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue
0	1	Agoura Hills	Mexican Restaurant	Fast Food Restaurant	Chinese Restaurant	Indian Restaurant	Italian Restaurant
1	3	Alhambra	Spanish Restaurant	Tapas Restaurant	Italian Restaurant	Seafood Restaurant	Fast Food Restaurant
2	1	Arcadia	Mexican Restaurant	Sushi Restaurant	American Restaurant	Fast Food Restaurant	Dumpling Restaurant
3	2	Artesia	Indian Restaurant	Thai Restaurant	Korean Restaurant	Chinese Restaurant	Italian Restaurant
4	1	Azusa	Mexican Restaurant	American Restaurant	Fast Food Restaurant	Thai Restaurant	Italian Restaurant

```
In [59]: LA_merged.rename(columns={'City':'Neighborhood'}, inplace=True)

LA_merged = LA_merged.join(neighborhoods_venues_sorted.set_index('Neighborhood'), on='Neighborhood')

LA_merged.head
```

			Neighborhood	County	Popula
1	Agoura Hills	Los Angeles	20630	2647.2	
3	Alhambra	Los Angeles	84400	11060.1	
6	Arcadia	Los Angeles	57251	5240.4	
7	Artesia	Los Angeles	16698	10301.0	
10	Azusa	Los Angeles	47420	4910.9	
11	Baldwin Park	Los Angeles	76411	11523.3	
12	Beverly Hills	Los Angeles	34536	6050.5	
13	Bradbury	Los Angeles	845	431.8	
14	Burbank	Los Angeles	104484	6025.3	
15	Calabasas	Los Angeles	23956	1747.8	
16	Carson	Los Angeles	92475	4939.1	
18	Cerritos	Los Angeles	49599	5686.7	
21	Claremont	Los Angeles	35569	2664.3	
22	Covina	Los Angeles	48429	6890.9	
23	Culver City	Los Angeles	39353	7699.7	
26	Diamond Bar	Los Angeles	56259	3781.1	
27	Downey	Los Angeles	113082	9113.6	
28	Duarte	Los Angeles	21676	3240.1	
33	El Segundo	Los Angeles	16839	3082.4	
34	Glendale	Los Angeles	195380	6417.7	
35	Glendora	Los Angeles	50855	2621.5	
39	Hermosa Beach	Los Angeles	19725	13822.7	
40	Hidden Hills	Los Angeles	1749	1035.5	
43	La Cañada Flintridge	Los Angeles	20477	2373.3	
46	La Habra Heights	Los Angeles	5398	876.4	
47	Lakewood	Los Angeles	80926	8591.8	
48	La Mirada	Los Angeles	49038	6269.2	
49	La Puente	Los Angeles	40342	11595.9	
50	La Verne	Los Angeles	31592	3747.6	
52	Lomita	Los Angeles	20539	10747.8	
53	Long Beach	Los Angeles	468594	9315.8	
54	Malibu	Los Angeles	12830	648.3	
55	Manhattan Beach	Los Angeles	35534	9025.7	
58	Monrovia	Los Angeles	37035	2722.2	
59	Monterey Park	Los Angeles	60966	7950.7	
61	Norwalk	Los Angeles	106455	10964.6	
63	Palos Verdes Estates	Los Angeles	13568	2842.1	
64	Pasadena	Los Angeles	139065	6050.8	
65	Pico Rivera	Los Angeles	63698	7678.2	
67	Rancho Palos Verdes	Los Angeles	42282	3140.1	
68	Redondo Beach	Los Angeles	67511	10892.4	
69	Rolling Hills	Los Angeles	1689	564.7	
70	Rolling Hills Estates	Los Angeles	8184	2293.1	
73	San Dimas	Los Angeles	33896	2254.2	
74	San Fernando	Los Angeles	24050	10130.6	
75	San Gabriel	Los Angeles	40173	9691.9	
76	San Marino	Los Angeles	13294	3529.1	
78	Santa Clarita	Los Angeles	179030	3395.2	
79	Santa Fe Springs	Los Angeles	16859	1900.2	
80	Santa Monica	Los Angeles	91619	10887.6	
81	Sierra Madre	Los Angeles	11060	3745.3	
82	Signal Hill	Los Angeles	11245	5167.7	
84	South Pasadena	Los Angeles	25914	7610.6	
90	Temple City	Los Angeles	36006	8988.0	
92	Torrance	Los Angeles	147181	7187.3	

97	Walnut	Los Angeles	29822	3316.5
99	West Covina	Los Angeles	107441	6697.9
101	Westlake Village	Los Angeles	8393	1618.7
104	Whittier	Los Angeles	86400	5898.0

	PerCapitaIncome	MedianIncome	FamilyIncome	VCrimes	VCrimesPer1000	\
1	\$50,242	107268.0	\$118,673	17.0	0.82	
3	\$24,971	53195.0	\$57,056	168.0	1.98	
6	\$38,582	80147.0	\$93,635	60.0	1.04	
7	\$21,688	60544.0	\$62,485	49.0	2.92	
10	\$18,159	52087.0	\$57,131	165.0	3.42	
11	\$15,419	51189.0	\$51,599	219.0	2.85	
12	\$81,788	87366.0	\$123,636	111.0	3.19	
13	\$76,472	112273.0	\$116,667	2.0	1.85	
14	\$33,882	66111.0	\$82,063	150.0	1.43	
15	\$60,703	117176.0	\$136,724	19.0	0.78	
16	\$23,622	71420.0	\$76,997	339.0	3.65	
18	\$35,460	91487.0	\$100,919	86.0	1.72	
21	\$39,402	89648.0	\$108,739	39.0	1.08	
22	\$25,622	64496.0	\$73,113	110.0	2.26	
23	\$45,792	79292.0	\$99,860	169.0	4.27	
26	\$34,539	90901.0	\$95,500	49.0	0.86	
27	\$23,216	60374.0	\$64,187	281.0	2.47	
28	\$26,421	62186.0	\$72,440	54.0	2.48	
33	\$42,575	84004.0	\$103,205	48.0	2.83	
34	\$29,264	52451.0	\$61,806	186.0	0.94	
35	\$32,090	74169.0	\$82,961	66.0	1.29	
39	\$74,730	105029.0	\$167,750	37.0	1.86	
40	\$126,620	245694.0	[7]	0.0	0.00	
43	\$71,758	151786.0	\$169,482	18.0	0.87	
46	\$51,293	111250.0	\$113,833	8.0	1.47	
47	\$29,981	79113.0	\$88,660	202.0	2.48	
48	\$29,467	81178.0	\$90,696	89.0	1.81	
49	\$15,509	54660.0	\$55,150	136.0	3.35	
50	\$34,778	75662.0	\$95,045	46.0	1.43	
52	\$28,593	57245.0	\$66,541	77.0	3.72	
53	\$27,014	52944.0	\$59,710	2304.0	4.89	
54	\$95,212	130432.0	\$169,241	25.0	1.94	
55	\$81,787	142071.0	\$177,532	37.0	1.03	
58	\$34,668	72034.0	\$86,034	47.0	1.26	
59	\$24,637	54821.0	\$60,209	91.0	1.48	
61	\$19,584	60523.0	\$63,688	316.0	2.96	
63	\$87,408	171328.0	\$203,241	5.0	0.37	
64	\$41,268	70845.0	\$88,600	394.0	2.81	
65	\$18,643	56576.0	\$62,987	275.0	4.30	
67	\$57,201	120697.0	\$137,506	24.0	0.56	
68	\$52,775	103064.0	\$123,561	158.0	2.32	
69	\$117,241	218583.0	\$227,250	1.0	0.53	
70	\$66,681	136477.0	\$154,043	7.0	0.85	
73	\$35,345	78911.0	\$92,140	69.0	2.03	
74	\$17,766	55044.0	\$56,482	75.0	3.08	
75	\$25,047	56238.0	\$62,144	83.0	2.05	
76	\$72,861	119300.0	\$154,050	5.0	0.37	
78	\$33,879	83178.0	\$90,819	307.0	1.48	
79	\$20,761	51786.0	\$63,333	74.0	4.29	
80	\$58,252	74534.0	\$113,956	338.0	3.63	
81	\$48,923	90780.0	\$111,389	13.0	1.17	

82	\$30,387	67320.0	\$65,851	40.0	3.51
84	\$46,649	80479.0	\$107,015	30.0	1.15
90	\$27,403	63803.0	\$73,210	45.0	1.24
92	\$36,876	78286.0	\$94,077	155.0	1.05
97	\$35,064	100934.0	\$107,750	29.0	0.96
99	\$24,944	67069.0	\$72,751	225.0	2.08
101	\$62,394	115550.0	\$145,106	7.0	0.83
104	\$27,632	65583.0	\$74,628	239.0	2.75

	PCrimes	PCrimesPer1000	Latitude	Longitude	Cluster	Labels	\
1	234.0	11.27	34.147910	-118.765704	1.0		
3	1743.0	20.52	37.176060	-3.588110	3.0		
6	1159.0	20.00	34.136207	-118.040150	1.0		
7	294.0	17.51	33.869020	-118.079620	2.0		
10	1065.0	22.08	34.133875	-117.905605	1.0		
11	1342.0	17.44	34.085474	-117.961176	1.0		
12	1071.0	30.79	34.069650	-118.396306	3.0		
13	9.0	8.30	34.146951	-117.970898	1.0		
14	2426.0	23.10	34.181648	-118.325855	1.0		
15	252.0	10.36	34.144664	-118.644097	3.0		
16	2116.0	22.79	35.363656	-101.335390	NaN		
18	1525.0	30.58	33.864429	-118.053932	2.0		
21	853.0	23.67	34.096676	-117.719779	1.0		
22	1108.0	22.76	34.087793	-117.889116	1.0		
23	1693.0	42.79	34.021122	-118.396466	3.0		
26	722.0	12.74	34.028623	-117.810337	2.0		
27	2897.0	25.50	33.942215	-118.123565	3.0		
28	352.0	16.13	19.243456	-70.087743	NaN		
33	538.0	31.67	33.917028	-118.415634	1.0		
34	3073.0	15.59	34.146942	-118.247847	2.0		
35	1241.0	24.19	34.136119	-117.865339	1.0		
39	543.0	27.32	33.864280	-118.395910	3.0		
40	12.0	6.27	34.164091	-118.657837	1.0		
43	306.0	14.83	34.199830	-118.200524	3.0		
46	49.0	8.99	33.960455	-117.950425	1.0		
47	1737.0	21.34	39.708574	-105.084669	1.0		
48	635.0	12.89	33.906097	-118.010709	1.0		
49	440.0	10.84	34.019790	-117.950368	1.0		
50	820.0	25.57	34.100843	-117.767836	1.0		
52	355.0	17.17	33.803655	-118.319501	2.0		
53	12438.0	26.40	33.769016	-118.191604	1.0		
54	312.0	24.16	34.035591	-118.689423	3.0		
55	878.0	24.48	33.891599	-118.395124	3.0		
58	718.0	19.29	6.328034	-10.797788	4.0		
59	1039.0	16.95	34.051522	-118.129807	2.0		
61	2001.0	18.73	41.117597	-73.407897	3.0		
63	121.0	8.85	33.787239	-118.401813	1.0		
64	3469.0	24.71	34.147645	-118.144478	3.0		
65	1360.0	21.26	33.983069	-118.096735	1.0		
67	472.0	11.07	33.748331	-118.370768	3.0		
68	1447.0	21.26	33.845591	-118.388677	3.0		
69	18.0	9.49	33.766804	-118.349662	3.0		
70	114.0	13.85	33.787794	-118.358128	3.0		
73	631.0	18.58	34.106676	-117.806726	1.0		
74	406.0	16.67	36.464393	-6.198203	3.0		
75	555.0	13.73	34.099073	-118.108568	2.0		
76	221.0	16.53	43.945862	12.458306	0.0		

78	2437.0	11.78	34.391664	-118.542586	1.0
79	1124.0	65.14	33.948079	-118.069150	1.0
80	3026.0	32.48	34.019470	-118.491227	3.0
81	92.0	8.30	34.161673	-118.052846	1.0
82	500.0	43.82	33.804826	-118.168259	1.0
84	475.0	18.24	34.113306	-118.147829	3.0
90	428.0	11.80	34.108299	-118.057757	2.0
92	2623.0	17.73	33.835849	-118.340629	2.0
97	294.0	9.71	33.708588	-117.792610	2.0
99	2832.0	26.19	34.068621	-117.938953	1.0
101	173.0	20.47	34.146023	-118.806179	3.0
104	2247.0	25.84	33.970878	-118.030840	1.0

	1st Most Common Venue		2nd Most Common Venue	\
1	Mexican Restaurant		Fast Food Restaurant	
3	Spanish Restaurant		Tapas Restaurant	
6	Mexican Restaurant		Sushi Restaurant	
7	Indian Restaurant		Thai Restaurant	
10	Mexican Restaurant		American Restaurant	
11	Mexican Restaurant		Fast Food Restaurant	
12	American Restaurant		Italian Restaurant	
13	Mexican Restaurant		Fast Food Restaurant	
14	American Restaurant		Mexican Restaurant	
15	Italian Restaurant		Sushi Restaurant	
16	Nan		Nan	
18	Indian Restaurant		Mexican Restaurant	
21	American Restaurant		Mexican Restaurant	
22	Mexican Restaurant		American Restaurant	
23	Sushi Restaurant		New American Restaurant	
26	Fast Food Restaurant		Chinese Restaurant	
27	Mexican Restaurant		American Restaurant	
28	Nan		Nan	
33	Mexican Restaurant		Italian Restaurant	
34	Japanese Restaurant		Mediterranean Restaurant	
35	American Restaurant		Mexican Restaurant	
39	Mexican Restaurant		Italian Restaurant	
40	Fast Food Restaurant		Sushi Restaurant	
43	Italian Restaurant		Mexican Restaurant	
46	Mexican Restaurant		Fast Food Restaurant	
47	American Restaurant		Mexican Restaurant	
48	Fast Food Restaurant		Mexican Restaurant	
49	Mexican Restaurant		Sushi Restaurant	
50	Mexican Restaurant		Fast Food Restaurant	
52	Japanese Restaurant		Mexican Restaurant	
53	Mexican Restaurant		American Restaurant	
54	American Restaurant		Seafood Restaurant	
55	American Restaurant		Mexican Restaurant	
58	Sushi Restaurant		Restaurant	
59	Chinese Restaurant		Vietnamese Restaurant	
61	Italian Restaurant		Tapas Restaurant	
63	Mexican Restaurant		Vietnamese Restaurant	
64	Italian Restaurant		Vegetarian / Vegan Restaurant	
65	Mexican Restaurant		Fast Food Restaurant	
67	American Restaurant		Italian Restaurant	
68	Seafood Restaurant		American Restaurant	
69	Italian Restaurant		Mexican Restaurant	
70	Italian Restaurant		Sushi Restaurant	

73	Fast Food Restaurant	American Restaurant
74	Spanish Restaurant	Seafood Restaurant
75	Chinese Restaurant	Vietnamese Restaurant
76	Italian Restaurant	Restaurant
78	Mexican Restaurant	Sushi Restaurant
79	Fast Food Restaurant	Mexican Restaurant
80	American Restaurant	Mexican Restaurant
81	American Restaurant	Mexican Restaurant
82	Mexican Restaurant	American Restaurant
84	Italian Restaurant	Mexican Restaurant
90	Chinese Restaurant	Korean Restaurant
92	Japanese Restaurant	American Restaurant
97	Korean Restaurant	Chinese Restaurant
99	Mexican Restaurant	Fast Food Restaurant
101	American Restaurant	Italian Restaurant
104	Mexican Restaurant	Fast Food Restaurant

3rd Most Common Venue		
1	Chinese Restaurant	Indian Restaurant
3	Restaurant	Italian Restaurant
6	American Restaurant	Fast Food Restaurant
7	Korean Restaurant	Chinese Restaurant
10	Fast Food Restaurant	Restaurant
11	Italian Restaurant	Asian Restaurant
12	Mediterranean Restaurant	Restaurant
13	Italian Restaurant	American Restaurant
14	Fast Food Restaurant	Sushi Restaurant
15	Seafood Restaurant	Fast Food Restaurant
16	NaN	NaN
18	American Restaurant	Chinese Restaurant
21	Fast Food Restaurant	Mediterranean Restaurant
22	Fast Food Restaurant	Chinese Restaurant
23	Mexican Restaurant	Indonesian Restaurant
26	Vietnamese Restaurant	Mexican Restaurant
27	Seafood Restaurant	Italian Restaurant
28	NaN	NaN
33	American Restaurant	Fast Food Restaurant
34	Middle Eastern Restaurant	Asian Restaurant
35	Fast Food Restaurant	Mediterranean Restaurant
39	American Restaurant	Seafood Restaurant
40	Seafood Restaurant	American Restaurant
43	American Restaurant	Sushi Restaurant
46	American Restaurant	Southern / Soul Food Restaurant
47	Fast Food Restaurant	Italian Restaurant
48	American Restaurant	Sushi Restaurant
49	Chinese Restaurant	Seafood Restaurant
50	Italian Restaurant	Chinese Restaurant
52	Sushi Restaurant	Korean Restaurant
53	Seafood Restaurant	Thai Restaurant
54	Italian Restaurant	New American Restaurant
55	Sushi Restaurant	Mediterranean Restaurant
58	Vietnamese Restaurant	Cuban Restaurant
59	Mexican Restaurant	Asian Restaurant
61	Mexican Restaurant	American Restaurant
63	Sushi Restaurant	Mediterranean Restaurant
64	American Restaurant	Japanese Restaurant
65	Chinese Restaurant	Asian Restaurant

4th Most Common Venue \		
	Indian Restaurant	
	Italian Restaurant	
	Fast Food Restaurant	
	Chinese Restaurant	
	Restaurant	
	Asian Restaurant	
	Restaurant	
	American Restaurant	
	Sushi Restaurant	
	Fast Food Restaurant	
	NaN	
	Chinese Restaurant	
	Mediterranean Restaurant	
	Chinese Restaurant	
	Indonesian Restaurant	
	Mexican Restaurant	
	Italian Restaurant	
	NaN	
	Fast Food Restaurant	
	Asian Restaurant	
	Mediterranean Restaurant	
	Seafood Restaurant	
	American Restaurant	
	Sushi Restaurant	
	Southern / Soul Food Restaurant	
	Italian Restaurant	
	Sushi Restaurant	
	Seafood Restaurant	
	Chinese Restaurant	
	Korean Restaurant	
	Thai Restaurant	
	New American Restaurant	
	Mediterranean Restaurant	
	Cuban Restaurant	
	Asian Restaurant	
	American Restaurant	
	Mediterranean Restaurant	
	Japanese Restaurant	
	Asian Restaurant	

67	Mexican Restaurant	Seafood Restaurant
68	Mexican Restaurant	Sushi Restaurant
69	Vietnamese Restaurant	Seafood Restaurant
70	Mexican Restaurant	Seafood Restaurant
73	Mexican Restaurant	Sushi Restaurant
74	Fast Food Restaurant	American Restaurant
75	Seafood Restaurant	Korean Restaurant
76	American Restaurant	Dim Sum Restaurant
78	Chinese Restaurant	Fast Food Restaurant
79	Seafood Restaurant	Thai Restaurant
80	Seafood Restaurant	Sushi Restaurant
81	Japanese Restaurant	Chinese Restaurant
82	Thai Restaurant	Fast Food Restaurant
84	American Restaurant	Restaurant
90	Mexican Restaurant	Vietnamese Restaurant
92	Asian Restaurant	Fast Food Restaurant
97	Fast Food Restaurant	Mexican Restaurant
99	Thai Restaurant	Asian Restaurant
101	Mexican Restaurant	Vegetarian / Vegan Restaurant
104	American Restaurant	Japanese Restaurant

5th Most Common Venue	
1	Italian Restaurant
3	Seafood Restaurant
6	Dumpling Restaurant
7	Italian Restaurant
10	Thai Restaurant
11	Latin American Restaurant
12	Sushi Restaurant
13	Thai Restaurant
14	Mediterranean Restaurant
15	New American Restaurant
16	Nan
18	Filipino Restaurant
21	Thai Restaurant
22	Seafood Restaurant
23	Mediterranean Restaurant
26	Japanese Restaurant
27	Fast Food Restaurant
28	Nan
33	Restaurant
34	Ramen Restaurant
35	Middle Eastern Restaurant
39	Sushi Restaurant
40	New American Restaurant
43	Japanese Restaurant
46	Chinese Restaurant
47	Chinese Restaurant
48	Korean Restaurant
49	Indian Restaurant
50	Mediterranean Restaurant
52	Seafood Restaurant
53	Argentinian Restaurant
54	Mexican Restaurant
55	Restaurant
58	Indian Chinese Restaurant
59	Sushi Restaurant

6th Most Common Venue \	
	Restaurant
	Fast Food Restaurant
	Chinese Restaurant
	American Restaurant
	Italian Restaurant
	Hawaiian Restaurant
	New American Restaurant
	Mediterranean Restaurant
	Middle Eastern Restaurant
	American Restaurant
	Nan
	Italian Restaurant
	Italian Restaurant
	Asian Restaurant
	American Restaurant
	Korean Restaurant
	Japanese Restaurant
	Nan
	Seafood Restaurant
	Fast Food Restaurant
	Argentinian Restaurant
	Asian Restaurant
	Italian Restaurant
	Mediterranean Restaurant
	Middle Eastern Restaurant
	Vietnamese Restaurant
	Japanese Restaurant
	Fast Food Restaurant
	Japanese Restaurant
	Hawaiian Restaurant
	Chinese Restaurant
	Mediterranean Restaurant
	Seafood Restaurant
	Hotpot Restaurant
	Japanese Restaurant

61	South American Restaurant	Indian Restaurant
63	American Restaurant	Taiwanese Restaurant
64	Thai Restaurant	Asian Restaurant
65	Seafood Restaurant	Sushi Restaurant
67	Asian Restaurant	Mediterranean Restaurant
68	French Restaurant	Vegetarian / Vegan Restaurant
69	Mediterranean Restaurant	New American Restaurant
70	Japanese Restaurant	American Restaurant
73	Italian Restaurant	Mediterranean Restaurant
74	Italian Restaurant	Mediterranean Restaurant
75	Asian Restaurant	Fast Food Restaurant
76	Indian Restaurant	Indian Chinese Restaurant
78	Seafood Restaurant	Italian Restaurant
79	Asian Restaurant	Vietnamese Restaurant
80	Restaurant	New American Restaurant
81	Sushi Restaurant	Fast Food Restaurant
82	Seafood Restaurant	Japanese Restaurant
84	Thai Restaurant	Chinese Restaurant
90	Fast Food Restaurant	Asian Restaurant
92	Korean Restaurant	New American Restaurant
97	Seafood Restaurant	Indian Restaurant
99	Italian Restaurant	Vietnamese Restaurant
101	Sushi Restaurant	Fast Food Restaurant
104	Vietnamese Restaurant	Chinese Restaurant
7th Most Common Venue \		
1	Japanese Restaurant	Sushi Restaurant
3	Mediterranean Restaurant	American Restaurant
6	Seafood Restaurant	Restaurant
7	Japanese Restaurant	Seafood Restaurant
10	Middle Eastern Restaurant	Chinese Restaurant
11	Dumpling Restaurant	Indian Restaurant
12	Mexican Restaurant	Seafood Restaurant
13	Sushi Restaurant	New American Restaurant
14	Asian Restaurant	Cuban Restaurant
15	Brazilian Restaurant	Dumpling Restaurant
16		Nan
18	Asian Restaurant	Korean Restaurant
21	Restaurant	Chinese Restaurant
22	Cajun / Creole Restaurant	Korean Restaurant
23	Japanese Restaurant	Cuban Restaurant
26	American Restaurant	Sushi Restaurant
27	Sushi Restaurant	Chinese Restaurant
28		Nan
33	Mediterranean Restaurant	Cuban Restaurant
34	Italian Restaurant	Seafood Restaurant
35	Chinese Restaurant	Italian Restaurant
39	Vegetarian / Vegan Restaurant	Peruvian Restaurant
40	Mexican Restaurant	Chinese Restaurant
43	Chinese Restaurant	New American Restaurant
46	Seafood Restaurant	Sushi Restaurant
47	Indian Restaurant	Thai Restaurant
48	Asian Restaurant	Chinese Restaurant
49	South American Restaurant	Latin American Restaurant
50	Asian Restaurant	Vegetarian / Vegan Restaurant
52	Greek Restaurant	Asian Restaurant
53	Greek Restaurant	Italian Restaurant

54		Restaurant	Cuban Restaurant
55	Vegetarian / Vegan Restaurant	Hawaiian Restaurant	Japanese Restaurant
58		Thai Restaurant	Greek Restaurant
59		Greek Restaurant	Dim Sum Restaurant
61		Cuban Restaurant	Restaurant
63		American Restaurant	Hotpot Restaurant
64		Indonesian Restaurant	Sushi Restaurant
65		New American Restaurant	Thai Restaurant
67		Chinese Restaurant	Peruvian Restaurant
68		Peruvian Restaurant	Peruvian Restaurant
69		Indian Restaurant	Cajun / Creole Restaurant
70		Vietnamese Restaurant	Fast Food Restaurant
73		Restaurant	Tex-Mex Restaurant
74		Italian Restaurant	Dim Sum Restaurant
75		Hotpot Restaurant	Mexican Restaurant
76		Vegetarian / Vegan Restaurant	Hawaiian Restaurant
78		Chinese Restaurant	Japanese Restaurant
79		Asian Restaurant	Restaurant
80		Thai Restaurant	Caribbean Restaurant
81		Vietnamese Restaurant	Greek Restaurant
82		Fast Food Restaurant	Sushi Restaurant
84		Italian Restaurant	Dumpling Restaurant
90		Restaurant	American Restaurant
92		Japanese Restaurant	Chinese Restaurant
97		New American Restaurant	New American Restaurant
99		Seafood Restaurant	Cajun / Creole Restaurant
101		Sushi Restaurant	Indian Restaurant
104			Italian Restaurant
		9th Most Common Venue	10th Most Common Venue
1		French Restaurant	Middle Eastern Restaurant
3		Japanese Restaurant	Dim Sum Restaurant
6		Cantonese Restaurant	Hotpot Restaurant
7		Mediterranean Restaurant	Filipino Restaurant
10		Dumpling Restaurant	Hotpot Restaurant
11		Indian Chinese Restaurant	Hotpot Restaurant
12		Moroccan Restaurant	French Restaurant
13		Chinese Restaurant	Restaurant
14		Empanada Restaurant	Indian Restaurant
15		Indian Chinese Restaurant	Hotpot Restaurant
16		Nan	Nan
18		Fast Food Restaurant	French Restaurant
21		Japanese Restaurant	Sushi Restaurant
22		Latin American Restaurant	Peruvian Restaurant
23		French Restaurant	Vegetarian / Vegan Restaurant
26		Indian Restaurant	Seafood Restaurant
27		Peruvian Restaurant	Mediterranean Restaurant
28		Nan	Nan
33		Sushi Restaurant	Japanese Restaurant
34		Vietnamese Restaurant	Argentinian Restaurant
35		Japanese Restaurant	Vietnamese Restaurant
39		French Restaurant	Fast Food Restaurant
40		Hotpot Restaurant	Hawaiian Restaurant
43		Asian Restaurant	French Restaurant
46		Empanada Restaurant	Filipino Restaurant
47		Tex-Mex Restaurant	Sushi Restaurant
48		Italian Restaurant	Vietnamese Restaurant

49	Japanese Restaurant	Dumpling Restaurant
50	Tex-Mex Restaurant	Thai Restaurant
52	Filipino Restaurant	Middle Eastern Restaurant
53	Vegetarian / Vegan Restaurant	Korean Restaurant
54	Sushi Restaurant	Asian Restaurant
55	Italian Restaurant	Asian Restaurant
58	Gluten-free Restaurant	French Restaurant
59	Szechuan Restaurant	Restaurant
61	New American Restaurant	Sushi Restaurant
63	Hawaiian Restaurant	Greek Restaurant
64	Seafood Restaurant	Restaurant
65	Tex-Mex Restaurant	Argentinian Restaurant
67	Vietnamese Restaurant	Southern / Soul Food Restaurant
68	Ramen Restaurant	Restaurant
69	Empanada Restaurant	Andhra Restaurant
70	Mediterranean Restaurant	Peruvian Restaurant
73	Thai Restaurant	Szechuan Restaurant
74	Hotpot Restaurant	Hawaiian Restaurant
75	American Restaurant	Thai Restaurant
76	Greek Restaurant	Gluten-free Restaurant
78	Comfort Food Restaurant	Restaurant
79	American Restaurant	Sushi Restaurant
80	Italian Restaurant	Mediterranean Restaurant
81	Dumpling Restaurant	Dim Sum Restaurant
82	Restaurant	Tapas Restaurant
84	French Restaurant	Gluten-free Restaurant
90	Szechuan Restaurant	Seafood Restaurant
92	Indian Restaurant	Italian Restaurant
97	American Restaurant	Vegetarian / Vegan Restaurant
99	Vegetarian / Vegan Restaurant	Japanese Restaurant
101	New American Restaurant	Ramen Restaurant
104	Seafood Restaurant	Latin American Restaurant >

2e: Visualize the resulting clusters

```
In [60]: # create a map with folium
map_restaurants10 = folium.Map(location=[latitude,longitude], tiles='Restauran
ts',
                               attr=<a href=https://github.com/python-visuali
zation/folium/>Folium</a>)

# set color scheme for the five clusters
x = np.arange(kclusters)
ys = [i + x + (i*x)**2 for i in range(kclusters)]
colors_array = cm.rainbow(np.linspace(0, 1, len(ys)))
rainbow = [colors.rgb2hex(i) for i in colors_array]

# add markers to the map
for lat, lon, poi, cluster in zip(LA_merged['Latitude'],
                                   LA_merged['Longitude'],
                                   LA_merged['Neighborhood'],
                                   LA_merged['Cluster Labels']):
    label = folium.Popup(str(poi) + ' Cluster ' + str(cluster), parse_html=True)
    if poi == "Carson" or poi == "Duarte" :
        continue
    folium.CircleMarker(
        [lat, lon],
        radius=list_rest_no[list_dist.index(poi)]*0.5,
        popup=label,
        color=rainbow[int(cluster)-1],
        fill=True,
        fill_color=rainbow[int(cluster)-1],
        fill_opacity=0.7).add_to(map_restaurants10)

map_restaurants10
```

Out[60]: Make this Notebook Trusted to load map: File -> Trust Notebook

```
In [61]: # L: Examination of the 5 clusters.  
# Now, we can examine each cluster and determine the discriminating venue categories that distinguish each cluster.  
# Based on the defining categories, we can then assign a name to each cluster.
```

```
In [67]: # Cluster 1  
LA_merged.loc[LA_merged['Cluster Labels'] == 0, LA_merged.columns[[1] + list(range(5, LA_merged.shape[1]))]]
```

Out[67]:

County	MedianIncome	FamilyIncome	VCrimes	VCrimesPer1000	PCrimes	PCrimesPer1000
--------	--------------	--------------	---------	----------------	---------	----------------

76	Los Angeles	119300.0	\$154,050	5.0	0.37	221.0	16.53
----	-------------	----------	-----------	-----	------	-------	-------

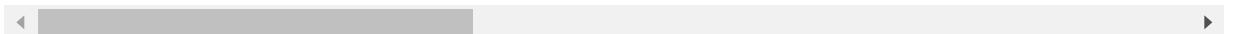
A horizontal scroll bar indicating that the table is scrollable horizontally.

```
In [68]: # Cluster 2  
LA_merged.loc[LA_merged['Cluster Labels'] == 1, LA_merged.columns[[1] + list(range(5, LA_merged.shape[1]))]]
```

Out[68]:

	County	MedianIncome	FamilyIncome	VCrimes	VCrimesPer1000	PCrimes	PCrimesPer1000
1	Los Angeles	107268.0	\$118,673	17.0	0.82	234.0	11.27
6	Los Angeles	80147.0	\$93,635	60.0	1.04	1159.0	20.00
10	Los Angeles	52087.0	\$57,131	165.0	3.42	1065.0	22.08
11	Los Angeles	51189.0	\$51,599	219.0	2.85	1342.0	17.44
13	Los Angeles	112273.0	\$116,667	2.0	1.85	9.0	8.30
14	Los Angeles	66111.0	\$82,063	150.0	1.43	2426.0	23.10
21	Los Angeles	89648.0	\$108,739	39.0	1.08	853.0	23.67
22	Los Angeles	64496.0	\$73,113	110.0	2.26	1108.0	22.76
33	Los Angeles	84004.0	\$103,205	48.0	2.83	538.0	31.67
35	Los Angeles	74169.0	\$82,961	66.0	1.29	1241.0	24.19
40	Los Angeles	245694.0	[7]	0.0	0.00	12.0	6.27
46	Los Angeles	111250.0	\$113,833	8.0	1.47	49.0	8.96
47	Los Angeles	79113.0	\$88,660	202.0	2.48	1737.0	21.34
48	Los Angeles	81178.0	\$90,696	89.0	1.81	635.0	12.89
49	Los Angeles	54660.0	\$55,150	136.0	3.35	440.0	10.84
50	Los Angeles	75662.0	\$95,045	46.0	1.43	820.0	25.57
53	Los Angeles	52944.0	\$59,710	2304.0	4.89	12438.0	26.40
63	Los Angeles	171328.0	\$203,241	5.0	0.37	121.0	8.85

	County	MedianIncome	FamilyIncome	VCrimes	VCrimesPer1000	PCrimes	PCrimesPer1000
65	Los Angeles	56576.0	\$62,987	275.0	4.30	1360.0	21.26
73	Los Angeles	78911.0	\$92,140	69.0	2.03	631.0	18.58
78	Los Angeles	83178.0	\$90,819	307.0	1.48	2437.0	11.78
79	Los Angeles	51786.0	\$63,333	74.0	4.29	1124.0	65.14
81	Los Angeles	90780.0	\$111,389	13.0	1.17	92.0	8.30
82	Los Angeles	67320.0	\$65,851	40.0	3.51	500.0	43.82
99	Los Angeles	67069.0	\$72,751	225.0	2.08	2832.0	26.19
104	Los Angeles	65583.0	\$74,628	239.0	2.75	2247.0	25.84

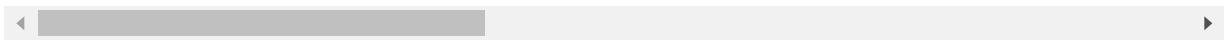


In [69]: # Cluster 3

```
LA_merged.loc[LA_merged['Cluster Labels'] == 2, LA_merged.columns[[1] + list(range(5, LA_merged.shape[1]))]]
```

Out[69]:

	County	MedianIncome	FamilyIncome	VCrimes	VCrimesPer1000	PCrimes	PCrimesPer1000
7	Los Angeles	60544.0	\$62,485	49.0	2.92	294.0	17.51
18	Los Angeles	91487.0	\$100,919	86.0	1.72	1525.0	30.58
26	Los Angeles	90901.0	\$95,500	49.0	0.86	722.0	12.74
34	Los Angeles	52451.0	\$61,806	186.0	0.94	3073.0	15.59
52	Los Angeles	57245.0	\$66,541	77.0	3.72	355.0	17.17
59	Los Angeles	54821.0	\$60,209	91.0	1.48	1039.0	16.95
75	Los Angeles	56238.0	\$62,144	83.0	2.05	555.0	13.73
90	Los Angeles	63803.0	\$73,210	45.0	1.24	428.0	11.80
92	Los Angeles	78286.0	\$94,077	155.0	1.05	2623.0	17.73
97	Los Angeles	100934.0	\$107,750	29.0	0.96	294.0	9.71



```
In [70]: # Cluster 4 - Fast food cluster  
LA_merged.loc[LA_merged['Cluster Labels'] == 3, LA_merged.columns[[1] + list(range(5, LA_merged.shape[1]))]]
```

Out[70]:

	County	MedianIncome	FamilyIncome	VCrimes	VCrimesPer1000	PCrimes	PCrimesPer1000
3	Los Angeles	53195.0	\$57,056	168.0	1.98	1743.0	20.52
12	Los Angeles	87366.0	\$123,636	111.0	3.19	1071.0	30.79
15	Los Angeles	117176.0	\$136,724	19.0	0.78	252.0	10.36
23	Los Angeles	79292.0	\$99,860	169.0	4.27	1693.0	42.79
27	Los Angeles	60374.0	\$64,187	281.0	2.47	2897.0	25.50
39	Los Angeles	105029.0	\$167,750	37.0	1.86	543.0	27.32
43	Los Angeles	151786.0	\$169,482	18.0	0.87	306.0	14.83
54	Los Angeles	130432.0	\$169,241	25.0	1.94	312.0	24.16
55	Los Angeles	142071.0	\$177,532	37.0	1.03	878.0	24.48
61	Los Angeles	60523.0	\$63,688	316.0	2.96	2001.0	18.73
64	Los Angeles	70845.0	\$88,600	394.0	2.81	3469.0	24.71
67	Los Angeles	120697.0	\$137,506	24.0	0.56	472.0	11.07
68	Los Angeles	103064.0	\$123,561	158.0	2.32	1447.0	21.26
69	Los Angeles	218583.0	\$227,250	1.0	0.53	18.0	9.49
70	Los Angeles	136477.0	\$154,043	7.0	0.85	114.0	13.85
74	Los Angeles	55044.0	\$56,482	75.0	3.08	406.0	16.67
80	Los Angeles	74534.0	\$113,956	338.0	3.63	3026.0	32.48
84	Los Angeles	80479.0	\$107,015	30.0	1.15	475.0	18.24

```
County MedianIncome FamilyIncome VCrimes VCrimesPer1000 PCrimes PCrimesPer1000
```

101	Los Angeles	115550.0	\$145,106	7.0	0.83	173.0	20.47
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```
In [71]: # Cluster 5  
LA_merged.loc[LA_merged['Cluster Labels'] == 4, LA_merged.columns[[1] + list(range(5, LA_merged.shape[1]))]]
```

Out[71]:

```
County MedianIncome FamilyIncome VCrimes VCrimesPer1000 PCrimes PCrimesPer1000
```

58	Los Angeles	72034.0	\$86,034	47.0	1.26	718.0	19.29
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In [ ]:
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