

Battle for Neighbourhoods

Capstone Project - Final Project

Background

The emergence of location services is serving a multitude of uses today. With the current situation of Covid 19, many companies are analyzing the possible problems that they may have due to the possible need or request to telework on the part of their workers. New technologies are influencing a wide variety of decisions to be made by companies when making new decisions at a strategic level. To remain competitive, companies have embraced the use of location data to identify consumer patterns, tastes and trends. Location data is available on various social media platforms, including Google maps, Facebook log data, location reviews on sites like TripAdvisor and Booking, Foursquare, among other providers of location data. A company that wants to relocate its offices in the current situation to ensure that workers telecommute the minimum, has hired a company specialized in data science, with the aim of implanting the offices in an area that improves both the experience of its customers and their loyalty, as well as promoting the majority of workers to attend the office.

Problem

The new location of the offices must be in a sufficiently central point of the city of Barcelona, to ensure the existence of all types of transport and facilitate access, and it must have nearby some restaurants to ensure that employees can go out to the street to lunch without wasting a lot of time getting there and back.

Applying data science to solve the problem

To solve existing problems, it is necessary to collect location data from Foursquare and apply data science tools and techniques. The data collected will include comparing two locations to determine the best location to recommend the location of the new offices. The two locations under consideration are Barcelona's Plaza Urquinaona and the Sagrada Familia area. The client has requested that offices be proposed where the average distance to the different restaurants in the area is less than 1,400 meters and with a nearby restaurant with good recommendations. We examined these two locations to find the best restaurant and recommend the area that best meets your expectations.

Methodology

The customer requirements included some of shopping places and being sufficiently central point of the city of Barcelona. The most important requirement was good restaurant. The data was accessed through FourSquare API interface. The data was then visualized using folium package to see the number of restaurants near Plaza Urquinaona and Sagrada Familia. The data extracted from the FourSquare API will be arranged as a dataframe for visualization.

Results

Plaza Urquinaona (Barcelona)

We found 28 restaurants. The nearest was Piú Restaurant, which was 332 meters from the specific zone. It doesn't have a rating but it has a very good review. The restaurant is located in a place near to the best shopping places of the city.

Sagrada Familia (Barcelona)

We found 27 restaurants. The nearest was Subway, which was 119 meters from the specific zone but it doesn't have any rating or tip. The next one is Bar Restaurant Sagrada Familia, a bit far, 350 meters. It has a rating of 6.4 and 4 tips. With this rating we didn't analyze the tips. This restaurant is not located in a place with a lot of shopping places.

Discussion

Based on the client's requirements to find a place with restaurants nearby, that the closest restaurant is well valued, near shopping areas and the analysis presented above, we will recommend Plaza Urquinaona to our client. We hope that the greater concentration of coffee shops in Plaza Urquinaona, as well as the availability of quality coffee shops and the proximity to the best shopping areas in the city, will provide our customers with a good selection and variety.

Conclusion

By applying the principles of data science we have been able to compare two locations and visualize the distribution of restaurants in the area. We hope this sets our product apart from the competition and helps us personalize experiences when making strategic business decisions for our customers.

Code

```
In [221]: !conda install -c conda-forge geopy --yes
from geopy.geocoders import Nominatim # module to convert an address into
latitude and longitude import requests # library to handle requests
import pandas as pd # library for data analysis
import numpy as np # library to handle data in a vectorized manner
import random # library for random number generation
# libraries for displaying images
from IPython.display import Image
from IPython.core.display import HTML
# transforming json file into a pandas dataframe library
from pandas.io.json import json_normalize
!conda install -c conda-forge folium=0.5.0 --yes
import folium # plotting library
import requests
print('Folium installed')
print('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 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|3.6.9|>=2.7,<2.8.0a0|3.6.9|>=3.5,<3.6.0a0|3.4.*',build='0_73_pypy|1_73_pypy|4_73_pypy|5_73_pypy|3_73_pypy|2_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 asked for.
 When python appears to the right, that indicates that the thing on the left is 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 matplotlib conflicts for:

```
ibm-wsrt-py37main-main -> matplotlib==3.2.2[build=*]
arcgis=1.6.0 -> matplotlib
nlTK -> matplotlib
seaborn -> matplotlib[version='>=1.4.3|>=2.1.2']
bokeh -> matplotlib
scikit-image -> matplotlib[version='>=1.1|>=1.3.1|>=2.0.0']
```

Package entrypoints conflicts for:

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

Package pypy3.7 conflicts for:

```
matplotlib-base -> pypy3.7[version='>=7.3.3']
tornado -> pypy3.7[version='>=7.3.3']
mistune -> pypy3.7[version='>=7.3.3']
cffi -> pypy3.7=7.3.3
docutils -> pypy3.7[version='>=7.3.3']
pytables -> pypy3.7[version='>=7.3.3']
scipy -> pypy3.7[version='>=7.3.3']
sympy -> pypy3.7[version='>=7.3.3']
wrapt -> pypy3.7[version='>=7.3.3']
ipython -> pypy3.7[version='>=7.3.3']
mock -> pypy3.7[version='>=7.3.3']
regex -> pypy3.7[version='>=7.3.3']
pywavelets -> pypy3.7[version='>=7.3.3']
matplotlib -> pypy3.7[version='>=7.3.3']
```

```

aiohttp -> pypy3.7[version='>=7.3.3']
secretstorage -> pypy3.7[version='>=7.3.3']
certifi -> pypy3.7[version='>=7.3.3']
pysocks -> pypy3.7[version='>=7.3.3']
biopython -> pypy3.7[version='>=7.3.3']
chardet -> pypy3.7[version='>=7.3.3']
sqlalchemy -> pypy3.7[version='>=7.3.3']
kiwisolver -> pypy3.7[version='>=7.3.3']
pysistent -> pypy3.7[version='>=7.3.3']
brotlipy -> pypy3.7[version='>=7.3.3']
python=3.7 -> pypy3.7=7.3.3
nbconvert -> pypy3.7[version='>=7.3.3']
pandas -> pypy3.7[version='>=7.3.3']
protobuf -> pypy3.7[version='>=7.3.3']
future -> pypy3.7[version='>=7.3.3']
numpy -> pypy3.7[version='>=7.3.3']
multidict -> pypy3.7[version='>=7.3.3']
pyyaml -> pypy3.7[version='>=7.3.3']
cryptography -> pypy3.7[version='>=7.3.3']
terminado -> pypy3.7[version='>=7.3.3']
jedi -> pypy3.7[version='>=7.3.3']
importlib-metadata -> pypy3.7[version='>=7.3.3']
bokeh -> pypy3.7[version='>=7.3.3']
numexpr -> pypy3.7[version='>=7.3.3']
lxml -> pypy3.7[version='>=7.3.3']
astropy -> pypy3.7[version='>=7.3.3']
markupsafe -> pypy3.7[version='>=7.3.3']
pyzmq -> pypy3.7[version='>=7.3.3']
jupyter_core -> pypy3.7[version='>=7.3.3']
yarl -> pypy3.7[version='>=7.3.3']
cx_oracle -> pypy3.7[version='>=7.3.3']
setuptools -> pypy3.7[version='>=7.3.3']
pytest -> pypy3.7[version='>=7.3.3']
pluggy -> pypy3.7[version='>=7.3.3']
pillow -> pypy3.7[version='>=7.3.3']

```

Package tk conflicts for:

```

matplotlib -> tk[version='8.5.*|8.6.*|>=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']
ibm-wsrt-py37main-main -> tk==8.6.10[build=']
pillow -> 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']
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 python_abi conflicts for:

```

scikit-learn -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp37m|*_cp38|*_pypy36_pp73|*_cp36m|*_cp39']
python=3.7 -> python_abi==3.7[build=*_pypy37_pp73]
regex -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_pypy37_pp73|*_pypy36_pp73|*_cp37m|*_cp39|*_cp36m|*_cp38|*_cp27mu']
cffi -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp38|*_cp37m|*_cp39|*_cp36m|*_pypy36_pp73|*_pypy37_pp73']
dill -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp37m|*_cp27mu|*_pypy36_pp73|*_cp38|*_cp36m']
pandas -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.9.*|3.8.*',build='*_cp37m|*_pypy37_pp73|*_cp39|*_cp38|*_pypy36_pp73|*_cp36m']
ipykernel -> python_abi[version='3.6|3.6.*|3.9.*|3.7.*|3.8.*',build='*_cp38|*_cp39|*_pypy36_pp73|*_cp36m|*_cp37m']
absl-py -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp27mu|*_cp37m|*_cp38|*_pypy36_pp73|*_cp36m|*_cp39']
biopython -> python_abi[version='3.6|3.6.*|3.9.*|3.7.*|3.7|3.8.*',build='*_pypy37_pp73|*_cp39|*_pypy36_p

```

```

p73|*_cp36m|*_cp37m|*_cp38']
pyyaml -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_pypy37_pp73|*_pyp
y36_pp73|*_cp37m|*_cp36m|*_cp39|*_cp38']
jsonschema -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*',build='*_pypy36_pp73|*_cp37m|*_cp38|*_cp
36m|*_cp27mu']
requests -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_pypy36_pp73|*_cp38|*_cp37m|*_cp36
m|*_cp27mu']
jupyter_core -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7.*|3.8.*|3.7',build='*_cp27mu|*_cp39|*_cp36m|
*_cp37m|*_cp38|*_pypy36_pp73|*_pypy37_pp73']
pickleshare -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_pypy36_pp73|*_cp3
7m|*_cp38|*_cp39|*_cp36m']
pywavelets -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.9.*|3.7.*',build='*_cp37m|*_pypy37_pp73|*_pypy3
6_pp73|*_cp38|*_cp36m|*_cp39']
mkl-service -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp39|*_cp37m|*_cp36m|*_cp38']
psycopg2 -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp39|*_cp37m|*_cp36m|*_cp38|*_pyp
y36_pp73']
terminado -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_pypy36_pp73|*_c
p38|*_pypy37_pp73|*_cp39|*_cp36m|*_cp37m']
pyzmq -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_pypy36_pp73|*_cp38
|*_cp37m|*_cp39|*_cp36m|*_pypy37_pp73']
setuptools -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp39|*_pypy37_pp73|*_cp37m|*_
cp36m|*_cp38|*_pypy36_pp73']
secretstorage -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_pypy36_pp73|*_
_pypy37_pp73|*_cp39|*_cp36m|*_cp37m|*_cp38']
matplotlib -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.9.*|3.8.*',build='*_cp37m|*_pypy37_pp73|*_cp39|*_
pypy36_pp73|*_cp36m|*_cp38']
pytorch -> python_abi[version='3.6.*|3.7.*|3.8.*|3.9.*',build='*_cp39|*_cp37m|*_cp38|*_cp36m']
entrypoints -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_pypy36_pp73|*_cp3
7m|*_cp36m|*_cp38|*_cp39']
sqlalchemy -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.7|3.8.*',build='*_pypy37_pp73|*_cp37m|*_c
p39|*_cp36m|*_cp38|*_pypy36_pp73|*_cp27mu']
statsmodels -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp37m|*_cp39|*_cp
36m|*_cp38']
sympy -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_pypy37_pp73|*_pypy
36_pp73|*_cp36m|*_cp37m|*_cp39|*_cp38']
s3transfer -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp39|*_cp37m|*_cp38|*_pypy36_pp7
3|*_cp36m']
jedi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_pypy37_pp73|*_pypy36
_pp73|*_cp37m|*_cp36m|*_cp39|*_cp38']
kiwisolver -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_pypy36_pp73|*_c
p37m|*_cp39|*_cp36m|*_pypy37_pp73|*_cp38']
lxml -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp38|*_cp37m|*_cp39|*_cp36m|*_
_pypy36_pp73|*_pypy37_pp73|*_cp27mu']
pytest -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_pypy36_pp73|*_cp38|*_cp37m|*_cp3
9|*_cp36m|*_pypy37_pp73']
mkl_random -> python_abi[version='3.6.*|3.7.*|3.8.*',build='*_cp37m|*_cp38|*_cp36m']
urllib3 -> python_abi[version='2.7.*|3.8.*|3.6.*|3.6|3.7.*',build='*_cp27mu|*_cp38|*_cp36m|*_pypy36_pp7
3|*_cp37m']
ninja -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*',build='*_cp37m|*_cp38|*_pypy36_pp73|*_cp36m']
pyqt -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_cp36m']
pluggy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp39|*_pypy37_pp73|*_pypy
36_pp73|*_cp37m|*_cp36m']
py-xgboost -> python_abi[version='3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp37m|*_cp38|*_cp36m|*_cp39']
notebook -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp39|*_cp37m|*_cp36m|*_pypy36_pp
73|*_cp38']
glib -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_pypy36_pp73|*_cp37m|*_cp36m
|*_cp38']
pysocks -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7.*|3.8.*|3.7',build='*_cp27mu|*_cp37m|*_cp39|*_cp
36m|*_pypy36_pp73|*_cp38|*_pypy37_pp73']
widgetsnbextension -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp37m|*_pypy36_pp73|*_cp
36m|*_cp39|*_cp38']

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pysistent -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_pypy36_pp73|*_cp37m|*_cp39|*_pypy37_pp73|*_cp38|*_cp36m|*_cp27mu']
tornado -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*|3.9.*|3.7',build='*_cp39|*_cp37m|*_cp38|*_cp36m|*_pypy36_pp73|*_pypy37_pp73']
pyodbc -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_cp36m|*_cp27mu']
wrapit -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_pypy37_pp73|*_pypy36_pp73|*_cp38|*_cp37m|*_cp39|*_cp36m']
protobuf -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.8.*|3.9.*',build='*_cp39|*_pypy37_pp73|*_pypy36_pp73|*_cp37m|*_cp36m|*_cp38']
beautifulsoup4 -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*',build='*_cp37m|*_cp38|*_cp36m|*_pypy36_pp73']
scikit-image -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp38|*_cp37m|*_cp39|*_cp36m']
cx_oracle -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_pypy37_pp73|*_pypy36_pp73|*_cp39|*_cp37m|*_cp36m|*_cp38']
pexpect -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*',build='*_cp37m|*_cp27mu|*_pypy36_pp73|*_cp38|*_cp36m']
numpy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_cp39|*_pypy37_pp73|*_pypy36_pp73|*_cp36m|*_cp37m|*_cp38']
importlib-metadata -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp39|*_pypy36_pp73|*_cp37m|*_cp36m|*_pypy37_pp73|*_cp38']
grpcio -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_cp36m|*_pypy36_pp73|*_cp27mu']
future -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_pypy37_pp73|*_cp39|*_cp36m|*_pypy36_pp73']
numexpr -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp39']
pymssql -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_cp36m']
docutils -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_pypy37_pp73|*_cp39|*_cp36m|*_pypy36_pp73']
scipy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_cp39|*_pypy37_pp73|*_cp37m|*_cp38|*_pypy36_pp73|*_cp36m']
yarl -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp39|*_cp36m|*_cp38']
cytoolz -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_cp36m']
nbconvert -> python_abi[version='3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_pypy37_pp73|*_pypy36_pp73|*_cp39|*_cp36m|*_cp37m|*_cp38']
sip -> python_abi[version='3.6.*|3.8.*|3.9.*|3.7.*',build='*_cp39|*_cp38|*_cp36m|*_cp37m']
brotlipy -> python_abi[version='3.6|3.6.*|3.7|3.9.*|3.8.*|3.7.*',build='*_pypy36_pp73|*_cp37m|*_pypy37_pp73|*_cp39|*_cp36m|*_cp38']
ipython -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.8.*|3.9.*',build='*_pypy36_pp73|*_cp39|*_cp37m|*_cp38|*_pypy37_pp73|*_cp36m']
certifi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_pypy37_pp73|*_cp37m|*_pypy36_pp73|*_cp39|*_cp36m|*_cp38']
h5py -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_cp36m']
soupsieve -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp37m|*_cp38|*_cp36m|*_pypy36_pp73']
pytables -> python_abi[version='3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp39|*_pypy37_pp73|*_cp37m|*_cp36m|*_cp38']
tensorflow-base -> python_abi[version='3.6.*|3.7.*',build='*_cp37m|*_cp36m']
mock -> python_abi[version='2.7.*|3.6.*|3.6|3.9.*|3.7.*|3.7|3.8.*',build='*_cp27mu|*_pypy37_pp73|*_pypy36_pp73|*_cp39|*_cp37m|*_cp36m|*_cp38']
keyring -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp37m|*_pypy36_pp73|*_cp36m|*_cp39|*_cp38']
fastcache -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp39|*_cp37m|*_cp36m|*_cp38']
astropy -> python_abi[version='3.6.*|3.7.*|3.7|3.8.*|3.9.*',build='*_cp39|*_pypy37_pp73|*_cp38|*_cp37m|*_cp36m']
cryptography -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.7|3.8.*',build='*_pypy37_pp73|*_cp37m|*_cp39|*_cp36m|*_cp38|*_pypy36_pp73|*_cp27mu']

```

```

mkl_fft -> python_abi[version='3.6.*|3.9.*|3.8.*|3.7.*',build='*_cp39|*_cp36m|*_cp38|*_cp37m']
multidict -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.7|3.9.*',build='*_pypy36_pp73|*_cp37m|*_cp38|*_pypy37_pp73|*_cp36m|*_cp39']
chardet -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp38|*_cp37m|*_cp39|*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp27mu']
matplotlib-base -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp37m|*_cp39|*_pypy37_pp73|*_cp36m|*_cp38|*_pypy36_pp73|*_cp27mu']
traitlets -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp37m|*_cp38|*_cp36m|*_pypy36_pp73']
bokeh -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_pypy37_pp73|*_cp37m|*_cp39|*_cp36m|*_cp38']
aiohttp -> python_abi[version='3.6|3.6.*|3.8.*|3.9.*|3.7.*|3.7',build='*_cp39|*_cp38|*_pypy36_pp73|*_cp36m|*_cp37m|*_pypy37_pp73']
typing_extensions -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_pypy36_pp73|*_cp38|*_cp37m|*_cp36m|*_cp27mu']
markupsafe -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.7.*|3.8.*',build='*_cp27mu|*_cp39|*_cp36m|*_pypy37_pp73|*_cp37m|*_cp38|*_pypy36_pp73']
pillow -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_pypy36_pp73|*_cp37m|*_cp39|*_pypy37_pp73|*_cp36m|*_cp38']
mistune -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.8.*|3.7.*',build='*_cp27mu|*_pypy36_pp73|*_cp37m|*_cp39|*_cp36m|*_pypy37_pp73|*_cp38']

```

Package pyparsing conflicts for:

```

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
matplotlib -> pyparsing
packaging -> pyparsing[version='>=2.0.2']

```

Package html5lib conflicts for:

```

ibm-wsrt-py37main-main -> html5lib==1.1.0[build=*]
bleach -> html5lib[version='>=0.999,!>=0.9999,!>=0.99999,<0.99999999|>=0.99999999|>=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 certifi conflicts for:

```

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

```

Package libgcc-ng conflicts for:

```

brotlipy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
sqlalchemy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
ibm-wsrt-py37main-main -> libgcc-ng==9.1.0[build=*]
hdf5 -> 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']
matplotlib-base -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
libxcb -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
markupsafe -> 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']
python=3.7 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
freetds -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
cryptography -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pillow -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=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']
libxml2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libuuid -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=9.3.0']

```

```

cx_oracle -> 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']
libprotobuf -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libpq -> 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']
gmp -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
psycopg2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
yarl -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pytorch -> libgcc-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
expat -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
pymssql -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0']
unixodbc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
lz4-c -> 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']
jpeg -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
pcre -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
lcms2 -> libgcc-ng[version='>=7.3.0|>=7.5.0']
dbus -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
blas -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
mkl_fft -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
ninja -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
pyodbc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=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']
gstreamer -> 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']
wrapt -> 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']
scikit-learn -> 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']
qt -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
pymz -> 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']
tk -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
glib -> 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']
mkl-service -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
regex -> 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']
aiohttp -> 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']
libxslt -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
xz -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
krb5 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
h5py -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
bzip2 -> 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']
openssl -> 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']
c-ares -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0']
blosc -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
snappy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
zlib -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pytables -> 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']
readline -> 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']
pyyaml -> 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']
yaml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
tensorboard -> libgcc-ng[version='>=7.2.0|>=7.3.0']
libtiff -> 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']
tornado -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
cytoolz -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
mistune -> 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']
grpcio -> 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']
gst-plugins-base -> 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']
zstd -> 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']
kiwisolver -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
astropy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libedit -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
sip -> 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']
lxml -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pysistent -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
freetype -> 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']
numpy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']

```

Package ipykernel conflicts for:

```

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

```

Package tornado conflicts for:

```

bokeh -> tornado[version='>=4.3,<4.5|>=4.3|>=5|>=5.1']
ibm-wsrt-py37main-main -> tornado==6.0.4[build=*]
matplotlib -> tornado
matplotlib-base -> tornado
notebook -> tornado[version='>=4|>=4,<6|>=4.1,<7|>=5.0,<7|>=5.0|>=6.1']
jupyter_client -> tornado[version='>=4.1|>=4.1,<6']
ipykernel -> tornado[version='>=4.0|>=4.2']
terminado -> tornado[version='>=4']
jupyterlab -> tornado[version='!=6.0.0,!6.0.1,!6.0.2|>=6.1|>=6.1.0']

```

Package pypy3.6 conflicts for:

```

pymz -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
aiohttp -> pypy3.6[version='>=7.3.2|>=7.3.3']
protobuf -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
pyyaml -> pypy3.6[version='>=7.3.2|>=7.3.3']
bokeh -> pypy3.6[version='>=7.3.1|>=7.3.2']
lxml -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
pluggy -> 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']
pywavelets -> pypy3.6[version='>=7.3.1|>=7.3.2']
widgetsnbextension -> pypy3.6[version='>=7.3.1|>=7.3.2']
matplotlib -> pypy3.6[version='>=7.3.2']
nbconvert -> pypy3.6[version='>=7.3.1|>=7.3.2']
kiwisolver -> pypy3.6[version='>=7.3.2|>=7.3.3']
jedi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
cryptography -> 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']
cx_oracle -> 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']
pillow -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
pickleshare -> pypy3.6[version='>=7.3.2']
soupsieve -> pypy3.6[version='>=7.3.1']

```

```
tornado -> 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']
scikit-learn -> pypy3.6[version='>=7.3.2|>=7.3.3']
s3transfer -> pypy3.6[version='>=7.3.2']
scipy -> pypy3.6[version='>=7.3.1|>=7.3.2']
markupsafe -> pypy3.6[version='>=7.3.2|>=7.3.3']
pysocks -> pypy3.6[version='>=7.3.2|>=7.3.3']
sympy -> 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']
numpy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
future -> pypy3.6[version='>=7.3.2|>=7.3.3']
wrapt -> pypy3.6[version='>=7.3.2|>=7.3.3']
notebook -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
scikit-image -> pypy3.6[version='>=7.3.2']
ninja -> pypy3.6[version='>=7.3.1']
beautifulsoup4 -> pypy3.6[version='>=7.3.1']
importlib-metadata -> pypy3.6[version='>=7.3.1|>=7.3.3']
secretstorage -> pypy3.6[version='>=7.3.2']
statsmodels -> pypy3.6[version='>=7.3.3']
multidict -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
entrypoints -> pypy3.6[version='>=7.3.2']
chardet -> 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']
numexpr -> pypy3.6[version='>=7.3.2|>=7.3.3']
ipython -> pypy3.6[version='>=7.3.1|>=7.3.3']
certifi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
terminado -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
docutils -> pypy3.6[version='>=7.3.2|>=7.3.3']
matplotlib-base -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
jupyter_core -> pypy3.6[version='>=7.3.2|>=7.3.3']
cffi -> pypy3.6[version='7.3.0.*|7.3.1.*|7.3.2.*|7.3.3.*']
mock -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
yarl -> pypy3.6[version='>=7.3.2|>=7.3.3']
absl-py -> pypy3.6[version='>=7.3.1|>=7.3.2']
pysistent -> 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']
ipykernel -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
mistune -> 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']
```

Package send2trash conflicts for:

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

Package multidict conflicts for:

```
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=*]
yarl -> multidict[version='>=2.0|>=4.0']
```

Package libpng conflicts for:

```
tensorflow-base -> libpng[version='>=1.6.37,<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']
matplotlib-base -> libpng[version='>=1.6.35,<1.7.0a0|>=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']
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']
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']
gst-plugins-base -> libpng[version='>=1.6.37,<1.7.0a0']
```

Package setuptools conflicts for:

```
pygments -> setuptools
ipython -> setuptools[version='>=18.5']
jsonschema -> setuptools
numexpr -> setuptools
pip -> setuptools
markdown -> setuptools[version='>=3.6']
wheel -> setuptools
jinja2 -> setuptools
ibm-wsrt-py37main-main -> setuptools==47.3.1[build=*]
astropy -> setuptools
joblib -> setuptools
protobuf -> setuptools
google-auth -> setuptools[version='>=40.3.0']
pytest -> setuptools[version='>=40.0']
tensorboard -> setuptools[version='>=41.0.0|>=41.4']
grpcio -> setuptools
matplotlib-base -> setuptools
matplotlib -> setuptools
bleach -> setuptools
sympy -> setuptools
plotly -> setuptools
networkx -> setuptools
```

Package mkl conflicts for:

```
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']
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']
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']
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']
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']
ibm-wsrt-py37main-main -> mkl==2020.1[build=*]
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']
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']
tensorflow-base -> mkl[version='>=2018.0.2,<2019.0a0']
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
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']
```

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,<2.4.0a0|>=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 scikit-learn conflicts for:

```
py-xgboost -> scikit-learn
nltk -> scikit-learn
ibm-wsrt-py37main-main -> scikit-learn==0.23.1[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 packaging conflicts for:

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

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|>=1.10.36,<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,<1.13.0|>=1.12.107,<1.13.0|>=1.12.108,<1.13.0|>=1.12.109,<1.13.0|>=1.12.110,<1.13.0|>=1.12.111,<1.13.0|>=1.12.112,<1.13.0|>=1.12.113,<1.13.0|>=1.12.114,<1.13.0|>=1.12.115,<1.13.0|>=1.12.116,<1.13.0|>=1.12.117,<1.13.0|>=1.12.118,<1.13.0|>=1.12.119,<1.13.0|>=1.12.120,<1.13.0|>=1.12.121,<1.13.0|>=1.12.122,<1.13.0|>=1.12.123,<1.13.0|>=1.12.124,<1.13.0|>=1.12.125,<1.13.0|>=1.12.126,<1.13.0|>=1.12.127,<1.13.0|>=1.12.128,<1.13.0|>=1.12.129,<1.13.0|>=1.12.130,<1.13.0|>=1.12.131,<1.13.0|>=1.12.132,<1.13.0|>=1.12.133,<1.13.0|>=1.12.134,<1.13.0|>=1.12.135,<1.13.0|>=1.12.136,<1.13.0|>=1.12.137,<1.13.0|>=1.12.138,<1.13.0|>=1.12.139,<1.13.0|>=1.12.140,<1.13.0|>=1.12.141,<1.13.0|>=1.12.142,<1.13.0|>=1.12.143,<1.13.0|>=1.12.144,<1.13.0|>=1.12.145,<1.13.0|>=1.12.146,<1.13.0|>=1.12.147,<1.13.0|>=1.12.148,<1.13.0|>=1.12.149,<1.13.0|>=1.12.150,<1.13.0|>=1.12.151,<1.13.0|>=1.12.152,<1.13.0|>=1.12.153,<1.13.0|>=1.12.154,<1.13.0|>=1.12.155,<1.13.0|>=1.12.156,<1.13.0|>=1.12.157,<1.13.0|>=1.12.158,<1.13.0|>=1.12.159,<1.13.0|>=1.12.160,<1.13.0|>=1.12.161,<1.13.0|>=1.12.162,<1.13.0|>=1.12.163,<1.13.0|>=1.12.164,<1.13.0|>=1.12.165,<1.13.0|>=1.12.166,<1.13.0|>=1.12.167,<1.13.0|>=1.12.168,<1.13.0|>=1.12.169,<1.13.0|>=1.12.170,<1.13.0|>=1.12.171,<1.13.0|>=1.12.172,<1.13.0|>=1.12.173,<1.13.0|>=1.12.174,<1.13.0|>=1.12.175,<1.13.0|>=1.12.176,<1.13.0|>=1.12.177,<1.13.0|>=1.12.178,<1.13.0|>=1.12.179,<1.13.0|>=1.12.180,<1.13.0|>=1.12.181,<1.13.0|>=1.12.182,<1.13.0|>=1.12.183,<1.13.0|>=1.12.184,<1.13.0|>=1.12.185,<1.13.0|>=1.12.186,<1.13.0|>=1.12.187,<1.13.0|>=1.12.188,<1.13.0|>=1.12.189,<1.13.0|>=1.12.190,<1.13.0|>=1.12.191,<1.13.0|>=1.12.192,<1.13.0|>=1.12.193,<1.13.0|>=1.12.194,<1.13.0|>=1.12.195,<1.13.0|>=1.12.196,<1.13.0|>=1.12.197,<1.13.0|>=1.12.198,<1.13.0|>=1.12.199,<1.13.0|>=1.12.200,<1.13.0|>=1.12.201,<1.13.0|>=1.12.202,<1.13.0|>=1.12.203,<1.13.0|>=1.12.204,<1.13.0|>=1.12.205,<1.13.0|>=1.12.206,<1.13.0|>=1.12.207,<1.13.0|>=1.12.208,<1.13.0|>=1.12.209,<1.13.0|>=1.12.210,<1.13.0|>=1.12.211,<1.13.0|>=1.12.212,<1.13.0|>=1.12.213,<1.13.0|>=1.12.214,<1.13.0|>=1.12.215,<1.13.0|>=1.12.216,<1.13.0|>=1.12.217,<1.13.0|>=1.12.218,<1.13.0|>=1.12.219,<1.13.0|>=1.12.220,<1.13.0|>=1.12.221,<1.13.0|>=1.12.222,<1.13.0|>=1.12.223,<1.13.0|>=1.12.224,<1.13.0|>=1.12.225,<1.13.0|>=1.12.226,<1.13.0|>=1.12.227,<1.13.0|>=1.12.228,<1.13.0|>=1.12.229,<1.13.0|>=1.12.230,<1.13.0|>=1.12.231,<1.13.0|>=1.12.232,<1.13.0|>=1.12.233,<1.13.0|>=1.12.234,<1.13.0|>=1.12.235,<1.13.0|>=1.12.236,<1.13.0|>=1.12.237,<1.13.0|>=1.12.238,<1.13.0|>=1.12.239,<1.13.0|>=1.12.240,<1.13.0|>=1.12.241,<1.13.0|>=1.12.242,<1.13.0|>=1.12.243,<1.13.0|>=1.12.244,<1.13.0|>=1.12.245,<1.13.0|>=1.12.246,<1.13.0|>=1.12.247,<1.13.0|>=1.12.248,<1.13.0|>=1.12.249,<1.13.0|>=1.12.250,<1.13.0|>=1.12.251,<1.13.0|>=1.12.252,<1.13.0|>=1.12.253,<1.13.0|>=1.13.0,<1.14.0|>=1.13.1,<1.14.0|>=1.13.10,<1.14.0|>=1.13.11,<1.14.0|>=1.13.12,<1.14.0|>=1.13.13,<1.14.0|>=1.13.14,<1.1
```

[illegible]

Package numpy-base conflicts for:

[illegible]

```

h2f8d375_1|py37h2f8d375_1|py27h2f8d375_1|py37hde5b4d6_0|py36hde5b4d6_0|py36h2f8d375_0|py27h2f8d375_0|py36hde5b4d6_1|py27hde5b4d6_1|py37hde5b4d6_1|py36h2f8d375_1|py37h2f8d375_1|py36hde5b4d6_0|py36h2f8d375_0|py37hde5b4d6_0|py27h2f8d375_0|py37hde5b4d6_0|py27h2f8d375_0|py36h2f8d375_0|py27h2f8d375_0|py37h2f8d375_1|py27h81de0dd_1|py27h2f8d375_1|py35h81de0dd_0|py27h2f8d375_0|py36h2f8d375_0|py27h2f8d375_0|py35h81de0dd_0|py36h74e8950_0|py27h74e8950_0|py37h3dfced4_0|py35h7cdd4dd_0|py37h7cdd4dd_0|py36hde5b4d6_5|py37hde5b4d6_5|py36h2f8d375_5|py38hde5b4d6_4|py38h2f8d375_4|py27h2f8d375_4|py36h2f8d375_4|py27h81de0dd_4|py35h2f8d375_4|py36hdbf6ddf_4|py37hdbf6ddf_4|py37h2b20989_4|py27h2b20989_4|py27h2b20989_3|py37hdbf6ddf_3|py36h2b20989_3|py36hdbf6ddf_2|py27hdbf6ddf_2|py36h2b20989_1|py35hdbf6ddf_0|py27h2b20989_0|py35hdbf6ddf_0|py35h2b20989_0|py36h2b20989_0|py27h2b20989_0|py36h9be14a7_1|py27h0ea5e3f_1|py38hde5b4d6_12|py37hde5b4d6_12|py36h2f8d375_12|py27hde5b4d6_11|py37hde5b4d6_11|py27h2f8d375_11|py37h2f8d375_10|py27h81de0dd_10|py36h74e8950_10|py35h74e8950_10|py35h81de0dd_9|py27h81de0dd_9|py37h74e8950_9|py37h81de0dd_9|py27h3dfced4_9|py36h3dfced4_9|py37h3dfced4_9|py37h7cdd4dd_9|py27h7cdd4dd_9|py35h7cdd4dd_9|py35h2b20989_8|py27h2b20989_8|py37h2b20989_8|py37hdbf6ddf_8|py36hdbf6ddf_7|py36h2b20989_7|py27h2b20989_7|py37h2b20989_7|py37h2b20989_7|py27hdbf6ddf_7|py36hdbf6ddf_6|py27hdbf6ddf_6|py37hdbf6ddf_6|py37h2b20989_6|py36h2b20989_6']
mkl_fft -> numpy-base[version='>=1.0.6,<2.0a0']

```

Package zlib conflicts for:

```

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

```

Package bzip2 conflicts for:

```

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

```

Package urllib3 conflicts for:

```

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']
ibm-wsrt-py37main-main -> urllib3==1.25.9[build=*]

```

Package libstdcxx-ng conflicts for:

```

python=3.7 -> 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']
matplotlib-base -> libstdcxx-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
freetype -> libstdcxx-ng[version='>=4.9']
expat -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.2.0']
zstd -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']

```

```

libxgboost -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=5.4.0|>=7.2.0']
libffi -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
ibm-wsrt-py37main-main -> libstdcxx-ng==9.1.0[build=*]
lz4-c -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
mkl_fft -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
scikit-image -> 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']
matplotlib -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
py-xgboost -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=5.4.0|>=7.2.0']
blosc -> 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']
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']
numexpr -> 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']
tensorflow-base -> libstdcxx-ng[version='>=5.4.0|>=7.2.0']
pytorch -> libstdcxx-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
pyodbc -> 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']
glib -> 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']
freetds -> libstdcxx-ng[version='>=4.9|>=7.3.0']
pymz -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
qt -> libstdcxx-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
pandas -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
tensorboard -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
ncurses -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
sip -> 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']
pymssql -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0']
scikit-learn -> 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']
pcre -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.2.0']
snappy -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libprotobuf -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
kiwisolver -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scipy -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
zeromq -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
biopython -> libstdcxx-ng[version='>=7.2.0']
libtiff -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
numpy -> libstdcxx-ng[version='>=4.9|>=7.3.0']
mkl_random -> libstdcxx-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
unixodbc -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0']
sqlite -> libstdcxx-ng[version='>=4.9|>=7.3.0']
yaml -> libstdcxx-ng[version='>=7.3.0']

```

Package scipy conflicts for:

```

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

```

Package libgfortran conflicts for:

```

scipy -> libgfortran[version='>=3.0']
numpy -> libgfortran[version='>=3.0']

```



```
tensorflow-estimator -> enum34[version='>=1.1.6']
```

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']

```
numpy -> libblas[version='>=3.8.0,<4.0a0']
```

```
qt -> libtiff[version='4.0.*|>=4.0.10,<5.0a0']
```

h5py -> six

```
prompt-toolkit -> six[version='>=1.9.0']
tensorboard -> six[version='>=1.10.0|>=1.12']
retrying -> six[version='>=1.7.0']
protobuf -> six
pyopenssl -> six[version='>=1.5.2']
google-auth -> six[version='>=1.9.0|>=1.9.0,<2dev']
scikit-image -> six[version='>=1.4|>=1.7.3']
nlTK -> six
google-pasta -> six
python-dateutil -> six[version='>=1.5']
grpcio -> six[version='>=1.5.2']
traitlets -> six
jsonschema -> six[version='>=1.11.0']
plotly -> six
arcgis=1.6.0 -> six
bleach -> six
mock -> six
keras-preprocessing -> six[version='>=1.9.0']
pytables -> six
absl-py -> six
```

Package configparser conflicts for:

```
importlib-metadata -> configparser[version='>=3.5']
entrypoints -> configparser[version='>=3.5']
importlib_metadata -> configparser[version='>=3.5']
```

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 readline conflicts for:

```
freetds -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']
python=3.7 -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']
libpq -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']
ibm-wsrt-py37main-main -> readline==8.0[build=*]
sqlite -> readline[version='6.2.*|7.0|7.0.*|>=7.0,<8.0a0|>=8.0,<9.0a0']
```

Package markupsafe conflicts for:

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

Package nbformat conflicts for:

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

Package pyrsistent conflicts for:

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

Package openssl conflicts for:

```
ibm-wsrt-py37main-main -> openssl==1.1.1i[build=*]
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']
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']
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|
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|
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|
hdf5 -> openssl[version='>=1.1.1g,<1.1.2a|>=1.1.1h,<1.1.2a|>=1.1.1i,<1.1.2a|
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|>=1.1.1d,<1.1.2a|>=1.1.1c,<1.1.2a|>=1.1.1b,<1.1.2a|
psycpg2 -> 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 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 protobuf conflicts for:

```

tensorflow -> protobuf[version='>=3.3.0|>=3.4.0|>=3.6.0|>=3.8.0|>=3.6.1']
grpcio -> protobuf[version='>=3.5.0']
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=*)

```

Package blas conflicts for:

```

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

```

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 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 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']
readline -> ncurses[version='5.9.*|>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.1,<7.0a0|>=6.0,<7.0a0|6.0.*']
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']
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 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 numpy conflicts for:

```

seaborn -> numpy[version='>=1.13.3|>=1.9.3']
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|>=1.1

```

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

Package dbus conflicts for:

```
Package libprotobuf conflicts for:
tensorflow-base -> libprotobuf[version='>=3.6.1,<3.7.0a0|>=3.8.0,<3.9.0a0|>=3.9.1,<3.10.0a0']
ibm-wsrpy37main-main -> libprotobuf==3.12.3[build=*]
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.*|3.13.1.*|3.13.2.*|3.13.3.*|3.13.4.*|3.13.5.*|3.13.6.*|3.13.7.*|3.13.8.*|3.13.9.*|3.13.10.*|3.13.11.*|3.13.12.*|3.13.13.*|3.13.14.*|3.13.15.*|3.13.16.*|3.13.17.*|3.13.18.*|3.13.19.*|3.13.20.*|3.13.21.*|3.13.22.*|3.13.23.*|3.13.24.*|3.13.25.*|3.13.26.*|3.13.27.*|3.13.28.*|3.13.29.*|3.13.30.*|3.13.31.*|3.13.32.*|3.13.33.*|3.13.34.*|3.13.35.*|3.13.36.*|3.13.37.*|3.13.38.*|3.13.39.*|3.13.40.*|3.13.41.*|3.13.42.*|3.13.43.*|3.13.44.*|3.13.45.*|3.13.46.*|3.13.47.*|3.13.48.*|3.13.49.*|3.13.50.*|3.13.51.*|3.13.52.*|3.13.53.*|3.13.54.*|3.13.55.*|3.13.56.*|3.13.57.*|3.13.58.*|3.13.59.*|3.13.60.*|3.13.61.*|3.13.62.*|3.13.63.*|3.13.64.*|3.13.65.*|3.13.66.*|3.13.67.*|3.13.68.*|3.13.69.*|3.13.70.*|3.13.71.*|3.13.72.*|3.13.73.*|3.13.74.*|3.13.75.*|3.13.76.*|3.13.77.*|3.13.78.*|3.13.79.*|3.13.80.*|3.13.81.*|3.13.82.*|3.13.83.*|3.13.84.*|3.13.85.*|3.13.86.*|3.13.87.*|3.13.88.*|3.13.89.*|3.13.90.*|3.13.91.*|3.13.92.*|3.13.93.*|3.13.94.*|3.13.95.*|3.13.96.*|3.13.97.*|3.13.98.*|3.13.99.*|3.14.0.*|3.14.1.*|3.14.2.*|3.14.3.*|3.14.4.*|3.14.5.*|3.14.6.*|3.14.7.*|3.14.8.*|3.14.9.*|3.14.10.*|3.14.11.*|3.14.12.*|3.14.13.*|3.14.14.*|3.14.15.*|3.14.16.*|3.14.17.*|3.14.18.*|3.14.19.*|3.14.20.*|3.14.21.*|3.14.22.*|3.14.23.*|3.14.24.*|3.14.25.*|3.14.26.*|3.14.27.*|3.14.28.*|3.14.29.*|3.14.30.*|3.14.31.*|3.14.32.*|3.14.33.*|3.14.34.*|3.14.35.*|3.14.36.*|3.14.37.*|3.14.38.*|3.14.39.*|3.14.40.*|3.14.41.*|3.14.42.*|3.14.43.*|3.14.44.*|3.14.45.*|3.14.46.*|3.14.47.*|3.14.48.*|3.14.49.*|3.14.50.*|3.14.51.*|3.14.52.*|3.14.53.*|3.14.54.*|3.14.55.*|3.14.56.*|3.14.57.*|3.14.58.*|3.14.59.*|3.14.60.*|3.14.61.*|3.14.62.*|3.14.63.*|3.14.64.*|3.14.65.*|3.14.66.*|3.14.67.*|3.14.68.*|3.14.69.*|3.14.70.*|3.14.71.*|3.14.72.*|3.14.73.*|3.14.74.*|3.14.75.*|3.14.76.*|3.14.77.*|3.14.78.*|3.14.79.*|3.14.80.*|3.14.81.*|3.14.82.*|3.14.83.*|3.14.84.*|3.14.85.*|3.14.86.*|3.14.87.*|3.14.88.*|3.14.89.*|3.14.90.*|3.14.91.*|3.14.92.*|3.14.93.*|3.14.94.*|3.14.95.*|3.14.96.*|3.14.97.*|3.14.98.*|3.14.99.*|3.15.0.*|3.15.1.*|3.15.2.*|3.15.3.*|3.15.4.*|3.15.5.*|3.15.6.*|3.15.7.*|3.15.8.*|3.15.9.*|3.15.10.*|3.15.11.*|3.15.12.*|3.15.13.*|3.15.14.*|3.15.15.*|3.15.16.*|3.15.17.*|3.15.18.*|3.15.19.*|3.15.20.*|3.15.21.*|3.15.22.*|3.15.23.*|3.15.24.*|3.15.25.*|3.15.26.*|3.15.27.*|3.15.28.*|3.15.29.*|3.15.30.*|3.15.31.*|3.15.32.*|3.15.33.*|3.15.34.*|3.15.35.*|3.15.36.*|3.15.37.*|3.15.38.*|3.15.39.*|3.15.40.*|3.15.41.*|3.15.42.*|3.15.43.*|3.15.44.*|3.15.45.*|3.15.46.*|3.15.47.*|3.15.48.*|3.15.49.*|3.15.50.*|3.15.51.*|3.15.52.*|3.15.53.*|3.15.54.*|3.15.55.*|3.15.56.*|3.15.57.*|3.15.58.*|3.15.59.*|3.15.60.*|3.15.61.*|3.15.62.*|3.15.63.*|3.15.64.*|3.15.65.*|3.15.66.*|3.15.67.*|3.15.68.*|3.15.69.*|3.15.70.*|3.15.71.*|3.15.72.*|3.15.73.*|3.15.74.*|3.15.75.*|3.15.76.*|3.15.77.*|3.15.78.*|3.15.79.*|3.15.80.*|3.15.81.*|3.15.82.*|3.15.83.*|3.15.84.*|3.15.85.*|3.15.86.*|3.15.87.*|3.15.88.*|3.15.89.*|3.15.90.*|3.15.91.*|3.15.92.*|3.15.93.*|3.15.94.*|3.15.95.*|3.15.96.*|3.15.97.*|3.15.98.*|3.15.99.*|3.16.0.*|3.16.1.*|3.16.2.*|3.16.3.*|3.16.4.*|3.16.5.*|3.16.6.*|3.16.7.*|3.16.8.*|3.16.9.*|3.16.10.*|3.16.11.*|3.16.12.*|3.16.13.*|3.16.14.*|3.16.15.*|3.16.16.*|3.16.17.*|3.16.18.*|3.16.19.*|3.16.20.*|3.16.21.*|3.16.22.*|3.16.23.*|3.16.24.*|3.16.25.*|3.16.26.*|3.16.27.*|3.16.28.*|3.16.29.*|3.16.30.*|3.16.31.*|3.16.32.*|3.16.33.*|3.16.34.*|3.16.35.*|3.16.36.*|3.16.37.*|3.16.38.*|3.16.39.*|3.16.40.*|3.16.41.*|3.16.42.*|3.16.43.*|3.16.44.*|3.16.45.*|3.16.46.*|3.16.47.*|3.16.48.*|3.16.49.*|3.16.50.*|3.16.51.*|3.16.52.*|3.16.53.*|3.16.54.*|3.16.55.*|3.16.56.*|3.16.57.*|3.16.58.*|3.16.59.*|3.16.60.*|3.16.61.*|3.16.62.*|3.16.63.*|3.16.64.*|3.16.65.*|3.16.66.*|3.16.67.*|3.16.68.*|3.16.69.*|3.16.70.*|3.16.71.*|3.16.72.*|3.16.73.*|3.16.74.*|3.16.75.*|3.16.76.*|3.16.77.*|3.16.78.*|3.16.79.*|3.16.80.*|3.16.81.*|3.16.82.*|3.16.83.*|3.16.84.*|3.16.85.*|3.16.86.*|3.16.87.*|3.16.88.*|3.16.89.*|3.16.90.*|3.16.91.*|3.16.92.*|3.16.93.*|3.16.94.*|3.16.95.*|3.16.96.*|3.16.97.*|3.16.98.*|3.16.99.*|3.17.0.*|3.17.1.*|3.17.2.*|3.17.3.*|3.17.4.*|3.17.5.*|3.17.6.*|3.17.7.*|3.17.8.*|3.17.9.*|3.17.10.*|3.17.11.*|3.17.12.*|3.17.13.*|3.17.14.*|3.17.15.*|3.17.16.*|3.17.17.*|3.17.18.*|3.17.19.*|3.17.20.*|3.17.21.*|3.17.22.*|3.17.23.*|3.17.24.*|3.17.25.*|3.17.26.*|3.17.27.*|3.17.28.*|3.17.29.*|3.17.30.*|3.17.31.*|3.17.32.*|3.17.33.*|3.17.34.*|3.17.35.*|3.17.36.*|3.17.37.*|3.17
```

```
*[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 `async-timeout` conflicts for:

```
aiohttp -> async-timeout[version='<4.0,>=3.0|>=3.0,<4.0|>=1.2,<3.0|>=1.2.0']
```

```
ibm-wsrt-py37main-main -> async-timeout==3.0.1[build=*]
```

Package `more-itertools` conflicts for:

```
zipp -> more-itertools
```

```
pytest -> more-itertools[version='>=4.0,<6.0|>=4.0|>=4.0.0']
```

```
ibm-wsrt-py37main-main -> more-itertools==8.4.0[build=*]
```

Package `cupy` conflicts for:

```
py-xgboost -> cupy[version='8.0.*|>=10.0.130,<10.1.0a0|>=9.0,<9.1.0a0|>=9.2,<9.3.0a0|9.0.*|9.2.*']
```

```
tensorflow-base -> cupy[version='8.0.*|9.0.*|9.2.*|>=10.0.130,<10.1.0a0|>=10.1.243,<10.2.0a0|>=10.1.168,<10.2.0a0|>=9.2,<9.3.0a0|>=9.0,<9.1.0a0']
```

```
libxgboost -> cupy[version='8.0.*|>=10.0.130,<10.1.0a0|>=9.0,<9.1.0a0|>=9.2,<9.3.0a0|9.0.*|9.2.*']
```

```
pytorch -> cupy[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.*']
```

Package `pandocfilters` conflicts for:

```
nbconvert -> pandocfilters[version='>=1.4.1']
```

```
ibm-wsrt-py37main-main -> pandocfilters==1.4.2[build=*]
```

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 `jpeg` conflicts for:

```
qt -> jpeg[version='9.*|>=9c,<10a|>=9d,<10a|>=9b,<10a']
```

```
lcms2 -> jpeg[version='>=9b,<10a|>=9c,<10a|>=9d,<10a']
```

```
pillow -> jpeg[version='8.*|9.*|>=9c,<10a|>=9d,<10a|>=9b,<10a']
```

```
ibm-wsrt-py37main-main -> jpeg==9b[build=*]
```

```
libtiff -> jpeg[version='9.*|>=9b,<10a|>=9c,<10a|>=9d,<10a']
```

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 `backports.functools_lru_cache` conflicts for:

```
matplotlib-base -> backports.functools_lru_cache
```

```
soupsieve -> backports.functools_lru_cache
```

```
wcwidth -> backports.functools_lru_cache
```

```
matplotlib -> backports.functools_lru_cache
```

Package `pexpect` conflicts for:

```
ipython -> pexpect[version='>4.3']
```

```
ibm-wsrt-py37main-main -> pexpect==4.8.0[build=*]
```

Package `requests` conflicts for:

```
jupyterlab_server -> requests
```

```
bokeh -> requests[version='>=1.2.3']
```

```
nlTK -> requests
```

```
ibm-wsrt-py37main-main -> requests==2.24.0[build=*]
```

```
requests-oauthlib -> requests[version='>=2.0.0']
```

```
plotly -> requests
```

tensorboard -> requests[version='>=2.21.0,<3']

Package mpmath conflicts for:

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

Package ipaddress conflicts for:

notebook -> ipaddress
cryptography -> ipaddress
urllib3 -> ipaddress

Package traitlets conflicts for:

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

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 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 libpq conflicts for:

qt -> libpq[version='>=12.3,<13.0a0']
ibm-wsrt-py37main-main -> libpq==12.2[build=*]
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']

Package cycler conflicts for:

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

Package _openmp_mutex conflicts for:

pytorch -> _openmp_mutex[version='>=4.5']
blas -> _openmp_mutex[version='*|>=4.5',build=_llvm]
mkl -> _openmp_mutex[version='*|>=4.5',build=_llvm]
libgcc-ng -> _openmp_mutex[version='>=4.5']

Package pathlib2 conflicts for:

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

Package decorator conflicts for:

ibm-wsrt-py37main-main -> decorator==4.4.2[build=*]
traitlets -> decorator

```
ipython -> decorator
plotly -> decorator[version='>=4.0.6']
networkx -> decorator[version='>=3.4.0|>=4.3.0|>=4.1.0']
```

Package pytz conflicts for:

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

Package ipython_genutils conflicts for:

```
notebook -> ipython_genutils
traitlets -> ipython_genutils
ibm-wsrt-py37main-main -> ipython_genutils==0.2.0[build=*]
nbformat -> ipython_genutils
```

Package notebook conflicts for:

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

Package webencodings conflicts for:

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

Package google-auth-oauthlib conflicts for:

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

Package markdown conflicts for:

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

Package python-dateutil conflicts for:

```
matplotlib-base -> 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']
bokeh -> python-dateutil[version='>=2.1']
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']
```

Package lcms2 conflicts for:

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

Package krb5 conflicts for:

```
freetds -> krb5[version='>=1.18.2,<1.19.0a0']
ibm-wsrt-py37main-main -> krb5==1.17.1[build=*]
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']
```

Package numexpr conflicts for:

```
ibm-wsrt-py37main-main -> numexpr==2.7.1[build=*]
```


pytables -> numexpr

Package cytoolz conflicts for:

scikit-image -> cytoolz[version='>=0.7.3']

ibm-wsrt-py37main-main -> cytoolz==0.10.1[build=*]

Package functools32 conflicts for:

jsonschema -> functools32

tensorflow-base -> functools32[version='>=3.2.3.2']

matplotlib-base -> functools32

matplotlib -> functools32

Package attrs conflicts for:

pytest -> attrs[version='>=17.2.0|>=17.4.0,<=19.1.0|>=17.4.0|>=19.2.0']

aiohttp -> attrs[version='>=17.3.0|>=17.4.0']

jsonschema -> attrs[version='>=17.4.0']

ibm-wsrt-py37main-main -> attrs==19.3.0[build=*]

Package grpcio conflicts for:

tensorflow-estimator -> grpcio[version='>=1.8.6']

ibm-wsrt-py37main-main -> grpcio==1.27.2[build=*]

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']

Package pillow conflicts for:

ibm-wsrt-py37main-main -> pillow==7.2.0[build=*]

matplotlib-base -> pillow[version='>=6.2.0']

bokeh -> pillow[version='>=4.0|>=7.1.0']

imageio -> pillow

scikit-image -> pillow[version='>=1.7.8|>=2.1.0|>=4.3.0']

Package beautifulsoup4 conflicts for:

soupsieve -> beautifulsoup4

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

Package h5py conflicts for:

keras-applications -> h5py

tensorflow-base -> h5py[version='>=2.10.0,<2.11.0a0']

ibm-wsrt-py37main-main -> h5py==2.10.0[build=*]

Package jupyter_core conflicts for:

jupyterlab -> jupyter_core

jupyter_client -> jupyter_core[version='>=4.6.0']

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']

nbformat -> jupyter_core

Package pygments conflicts for:

ipython -> pygments

ibm-wsrt-py37main-main -> pygments==2.6.1[build=*]

nbconvert -> pygments[version='>=2.4.1']

prompt-toolkit -> pygments

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 libiconv conflicts for:

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

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 libopenblas conflicts for:

```
numexpr -> 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']
numpy -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.3,<1.0a0']
scipy -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.3,<1.0a0']
```

Package bleach conflicts for:

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

Package libgcc conflicts for:

```
scipy -> libgcc
pytorch -> libgcc
pyqt -> libgcc
```

Package pyopenssl conflicts for:

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

Package imageio conflicts for:

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

Package backcall conflicts for:

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

Package mkl-service conflicts for:

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

Package importlib_metadata conflicts for:

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

Package cloudpickle conflicts for:

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

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 ca-certificates conflicts for:

```
openssl -> ca-certificates
ibm-wsrt-py37main-main -> ca-certificates==2020.12.8[build=*]
```

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']
ibm-wsrt-py37main-main -> libxcb==1.14[build=*]
```

Package importlib-metadata conflicts for:

```
pytest -> importlib-metadata[version='>=0.12']
keyring -> importlib-metadata
ibm-wsrt-py37main-main -> importlib-metadata==1.6.1[build=*]
markdown -> 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 google-auth conflicts for:

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

Package hdf5 conflicts for:

```
ibm-wsrt-py37main-main -> hdf5==1.10.4[build=*]
pytables -> hdf5[version='1.10.1.*|1.10.1|>=1.10.3,<1.10.4.0a0|>=1.10.4,<1.10.5.0a0|>=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']
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_openmpi_*|mpi_openmpi_*|mpi_openmpi_*|mpi_mpich_*|mpi_mpich_*|mpi_mpich_*']
```

Package pysocks conflicts for:

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

Package libffi conflicts for:

```
python=3.7 -> libffi[version='>=3.2.1,<3.3.0a0|>=3.3,<3.4.0a0|>=3.2.1,<3.3a0']
gststreamer -> libffi[version='>=3.2.1,<3.3.0a0|>=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']
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']
ibm-wsrt-py37main-main -> libffi==3.3[build=*]
```

Package llvm-openmp conflicts for:

```
blas -> llvm-openmp[version='>=10.0.0|>=11.0.0|>=9.0.1']
mkl -> llvm-openmp[version='>=10.0.0|>=11.0.0|>=9.0.1']
```

Package pytest conflicts for:

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

Package jupyter_client conflicts for:

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

Package pluggy conflicts for:

```
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']
ibm-wsrt-py37main-main -> pluggy==0.13.1[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 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']
ibm-wsrt-py37main-main -> gstreamer==1.14.0[build=*]
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']
```

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 ptyprocess conflicts for:

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

Package libedit conflicts for:

```
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']
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 pywavelets conflicts for:

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

Package libglib conflicts for:

```
gstreamer -> 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']
glib -> libglib[version='2.64.6|2.66.1|2.66.2|2.66.2|2.66.3|2.66.3|2.66.4',build='h0dae87d_0|h0dae87d_1|hbe7bbb4_0|hbe7bbb4_0|h164308a_0|h748fe8e_0|hdb14261_0|hdb14261_1|h164308a_1|h9edacf_1|h748fe8e_1|h9edacf_0|h1f3bc88_1|h0dae87d_0']
gst-plugins-base -> libglib[version='>=2.64.6,<3.0a0|>=2.66.4,<3.0a0']
```

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,<4.3.0a0|>=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.*']
```

Package jedi conflicts for:

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

Package chardet conflicts for:

```
aiohttp -> chardet[version='>=2.0,<4.0']
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=*]
```

```
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=*
```

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

```
py-xgboost -> libxgboost[version='0.7|0.71|0.72|0.72|0.72|0.80|0.80|0.80|0.80|0.80|0.80|0.81|0.81|0.82|0.82|0.90|0.90|0.90|0.90|1.0.2|1.0.2|1.1.1|1.2.0|1.3.0|0.90|0.90|0.90|0.90|0.90|0.90',build='h87a4715_0|h6cbba54_0|h6edc907_0|h51060c3_0|h688424c_0|h4d71fd4_0|h6edc907_0|hf484d3e_1|he6710b0_1|hfc679d8_0|he1b5a44_3|he1b5a44_4|he1b5a44_1|h9c3ff4c_1|h9c3ff4c_0|he1b5a44_0|he1b5a44_0|he1b5a44_0|he1b5a44_2|he1b5a44_1|he1b5a44_1|he1b5a44_0|hf484d3e_1000|hf484d3e_1001|hfc679d8_1|he6710b0_0|he6710b0_0|h83be7fe_0|hf484d3e_0|hf484d3e_0|hf484d3e_0']
ibm-wsrt-py37main-main -> libxgboost==0.90[build=*
```

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

```
notebook -> nbconvert[version='<6.0']
ibm-wsr-py37main-main -> nbconvert==5.6.1[build=*
```

```
dask-core -> pyyaml
bokeh -> pyyaml[version='>=3.10']
ibm-wsrt-py37main-main -> pyyaml==5.3.1[build=*
```

```
ibm-wsrtpy37main-main -> matplotlib-base==3.2.2[build=*]
scikit-image -> matplotlib-base[version='>=2.0.0']
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|3.0.1|3.0.2|3.0.2|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|3.1.3|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|>=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='py36hef1b27d_0|py37h250f245_1|py27h250f245_5_1|py36h250f245_1|py27h60b886d_1|py36h60b886d_1|py37hfd891ef_0|py37h250f245_1|py36h250f245_1|py27h250f245_1|py27h250f245_2|py36h250f245_2|py37hc2fb212_1001|py36h167e16e_1000|py36h167e16e_1001|py37h167e16e_1002|py36h167e16e_1002|py36h167e16e_0|py37hfd891ef_1|py36hfd891ef_1|py36hfd891ef_0|py37he7580a8_1|py37h250f245_2|py36h250f245_2|py38h250f245_0|py36h250f245_1|py37h250f245_1|py36h250f245_0|py38h250f245_0|py37h250f245_0|py38h250f245_1|py36h250f245_0|py37h250f245_0|py38h250f245_2|py38h250f245_1|py36he7580a8_1|py37hfd891ef_0|py37h5f35d83_0|py36h5f35d83_0|py36h5f35d83_1|py37h5f35d83_1|py37h167e16e_0|py37h167e16e_1001|py38h250f245_2|py37h250f245_2|py36hfd891ef_0|py27hfd891ef_0|py37h60b886d_1|py37hef1b27d_0|py38hef1b27d_0|py36hef1b27d_1|py38hef1b27d_1|py37hef1b27d_1']
seaborn -> matplotlib-base[version='>=2.1.2']
```

```
tensorflow-base -> tensorflow-estimator[version='>=1.13.0,<1.14.0a0']>=1.14.0rc0,<1.15.0a0'
```

```
ibm-wsr-py37main-main -> keras-preprocessing==1.1.0[build=*]  
tensorflow-base -> keras-preprocessing[version='>=1.0.3,<2.0a0']>=1.0.5<=1.1.0'
```

```
scikit-learn -> threadpoolctl
ibm-wsrt-py37main-main -> threadpoolctl==2.1.0[build=*]
```

Package gmp conflicts for:

```
pandoc -> gmp
ibm-wsrt-py37main-main -> gmp==6.1.2[build=*]
```

Package regex conflicts for:

```
nlTK -> regex
ibm-wsrt-py37main-main -> regex==2020.6.8[build=*]
```

Package futures conflicts for:

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

Package libsodium conflicts for:

```
ibm-wsrt-py37main-main -> libsodium==1.0.18[build=*]
zeromq -> libsodium[version='>=1.0.16,<1.0.17.0a0|>=1.0.17,<1.0.18.0a0|>=1.0.18,<1.0.19.0a0']
pyzmq -> libsodium[version='>=1.0.16,<1.0.17.0a0|>=1.0.17,<1.0.18.0a0|>=1.0.18,<1.0.19.0a0']
```

Package libxml2 conflicts for:

```
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']
ibm-wsrt-py37main-main -> libxml2==2.9.10[build=*]
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|>=2.9.7,<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']
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']
```

Package pyjwt conflicts for:

```
ibm-wsrt-py37main-main -> pyjwt==1.7.1[build=*]
oauthlib -> pyjwt[version='>=1.0.0']
```

Package idna conflicts for:

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

Package wheel conflicts for:

```
tensorboard -> wheel[version='>=0.26']
ibm-wsrt-py37main-main -> wheel==0.34.2[build=*]
pip -> wheel
```

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 wcwidth conflicts for:

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

Package jeepney conflicts for:

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

Package parso conflicts for:

ibm-wsrt-py37main-main -> parso==0.7.0[build=*]
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']

Package olefile conflicts for:

pillow -> olefile
ibm-wsrt-py37main-main -> olefile==0.46[build=*]

Package click conflicts for:

ibm-wsrt-py37main-main -> click==7.1.2[build=*]
nlTK -> click
google-auth-oauthlib -> click

Package mistune conflicts for:

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

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 singledispatch conflicts for:

nlTK -> singledispatch
tornado -> singledispatch

Package toolz conflicts for:

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

Package ld_impl_linux-64 conflicts for:

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

Package snappy conflicts for:

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

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 intel-openmp conflicts for:

mkL -> intel-openmp
ibm-wsrt-py37main-main -> intel-openmp==2020.1[build=*]

Package glib conflicts for:

gststreamer -> 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=*]
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']

Package aiohttp conflicts for:

```
notebook -> pyzmq[version='>=17']
ibm-wsrtpy37main-main -> pyzmq==19.0.1[build=*]
jupyter client -> pyzmq[version='>=13']
```

```
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']  
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']
```

```
numpy -> openblas[version='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']
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']
```

```
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']
ibm-wsrt-py37main-main -> absl-py==0.9.0[build=*]
tensorboard -> absl-py[version='>=0.4|>=0.8.0|>=0.7']
```

```
blas -> liblapack[version='3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.8.0|3.9.0|3.9.0|3.9.0|3.9.0|3.9.0|3.9.0',build=0_h6e990d7_netlib|0_openblas|1_h6e990d7_netlib|2_openblas|3_openblas|4_openblas|6_openblas|6_h6e990d7_netlib|7_mkl|8_openblas|8_mkl|8_h6e990d7_netlib|9_mkl|10_mkl|11_mkl|12_openblas|12_mkl|13_openblas|14_openblas|16_openblas|*_netlib|18_mkl|20_mkl|21_mkl|6_openblas|7_mkl|7_openblas|*_netlib|6_mkl|5_mkl|5_openblas|3_h92ddd45_netlib|19_mkl|17_openblas|16_mkl|15_openblas|15_mkl|14_mkl|13_mkl|11_h86c2bf4_netlib|11_openblas|10_h86c2bf4_netlib|10_openblas|9_openblas|7_h6e990d7_netlib|7_openblas|6_mkl|5_mkl|5_openblas|5_h6e990d7_netlib|4_h6e990d7_netlib|4_mkl']  
numpy -> liblapack[version='>=3.8.0,<4.0.0a0|>=3.8.0,<4.0a0']  
scipy -> liblapack[version='>=3.8.0,<4.0.0a0|>=3.8.0,<4.0a0']
```

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

```
ibm-wsrt-py37main-main -> _pytorch_select==0.1[build=*]  
pytorch -> pytorch select[version='0.1|0.2']
```

```
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']
ibm-wsrt-py37main-main -> qt==5.9.7[build=*
```

```
scipy -> libgfortran5[version='>=9.3.0']
libgfortran-ng -> libgfortran5[version='8.4.0.*|9.3.0.*']
hdf5 -> libgfortran5[version='>=9.3.0']
blas -> libgfortran5[version='>=9.3.0']
```


Package blinker conflicts for:

oauthlib -> blinker

ibm-wsrt-py37main-main -> blinker==1.4[build=*]

Package xz conflicts for:

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']

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']

gststreamer -> xz[version='>=5.2.3,<6.0a0|>=5.2.4,<5.3.0a0']

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 retrying conflicts for:

plotly -> retrying[version='>=1.3.3']

ibm-wsrt-py37main-main -> retrying==1.3.3[build=*]

Package future conflicts for:

ibm-wsrt-py37main-main -> future==0.18.2[build=*]

pytorch -> future

tensorflow-base -> future

Package openmpi conflicts for:

h5py -> openmpi[version='>=3.1,<3.2.0a0|>=3.1.4,<3.2.0a0|>=4.0.1,<5.0.0a0|>=4.0.2,<5.0.0a0|>=4.0.4,<5.0.0a0|>=4.0.5,<5.0.0a0']

hdf5 -> openmpi[version='>=3.1,<3.2.0a0|>=4.0,<5.0.0a0']

Package pyasn1 conflicts for:

rsa -> pyasn1[version='>=0.1.3']

ibm-wsrt-py37main-main -> pyasn1==0.4.8[build=*]

google-auth -> pyasn1[version='>=0.1.7,<1dev']

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']

Package secretstorage conflicts for:

ibm-wsrt-py37main-main -> secretstorage==3.1.0[build=*]

keyring -> secretstorage[version='>=3|>=3.2']

Package subprocess32 conflicts for:

matplotlib-base -> subprocess32

jupyterlab -> subprocess32

matplotlib -> subprocess32

Package zipp conflicts for:

importlib-metadata -> zipp[version='>=0.5']

ibm-wsrt-py37main-main -> zipp==3.1.0[build=*]

importlib_metadata -> zipp[version='>=0.3.2|>=0.5']

Package pip conflicts for:

python=3.7 -> pip

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

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 defusedxml conflicts for:

nbconvert -> defusedxml

ibm-wsrt-py37main-main -> defusedxml==0.6.0[build=*]

Package contextlib2 conflicts for:

importlib-metadata -> contextlib2

importlib_metadata -> contextlib2

Package requests-oauthlib conflicts for:

ibm-wsrt-py37main-main -> requests-oauthlib==1.3.0[build=*]

google-auth-oauthlib -> requests-oauthlib[version='>=0.7.0|>=0.7.0,<1dev']

Package tqdm conflicts for:

ibm-wsrt-py37main-main -> tqdm==4.47.0[build=*]

nlTK -> tqdm

Package prometheus_client conflicts for:

notebook -> prometheus_client

ibm-wsrt-py37main-main -> prometheus_client==0.8.0[build=*]

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 cachetools conflicts for:

google-auth -> cachetools[version='>=2.0.0,<3.2|>=2.0.0,<5.0|>=2.0.0,<3dev']

ibm-wsrt-py37main-main -> cachetools==4.1.1[build=*]

Package typing-extensions conflicts for:

yaml -> typing-extensions[version='>=3.7.4']

aihttp -> typing-extensions[version='>=3.6.5']

Package keras conflicts for:

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

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

Package networkx conflicts for:

scikit-image -> networkx[version='>=1.8,<2.0|>=1.8|>=2.0']

ibm-wsrt-py37main-main -> networkx==2.4[build=*]

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 jinja2 conflicts for:

jupyterlab -> jinja2[version='>=2.10']

jupyterlab_server -> jinja2[version='>2.10*|>=2.10']

bokeh -> jinja2[version='>=2.7']

notebook -> jinja2

nbconvert -> jinja2[version='>=2.4']

ibm-wsrt-py37main-main -> jinja2==2.11.2[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 typing_extensions conflicts for:

pytorch -> typing_extensions

bokeh -> typing_extensions[version='>=3.7.4']

importlib-metadata -> typing_extensions[version='>=3.6.4']

ibm-wsrt-py37main-main -> typing_extensions==3.7.4.2[build=*]

aihttp -> typing_extensions[version='>=3.6.5']

Package json5 conflicts for:

jupyterlab_server -> json5
ibm-wsrt-py37main-main -> json5==0.9.5[build=*]

Package joblib conflicts for:

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

Package wrapt conflicts for:

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

Package sip conflicts for:

pyqt -> sip[version='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 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 pickleshare conflicts for:

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

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 ipywidgets conflicts for:

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

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 lz4-c conflicts for:

blosc -> lz4-c[version='>=1.8.1.2,<1.9.0a0|>=1.9.2,<1.10.0a0']
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=*]

Package jupyter_server conflicts for:

jupyterlab -> jupyter_server[version='>=1.1.0,<2.0.0']
jupyterlab_server -> jupyter_server[version='>=1.1.0,<2.0.0']

Package prompt-toolkit conflicts for:

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

Package kiwisolver conflicts for:

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

Package fastcache conflicts for:

sympy -> fastcache
ibm-wsrt-py37main-main -> fastcache==1.1.0[build=*]

Package libgfortran-ng conflicts for:

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

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 werkzeug conflicts for:

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

Package sqlite conflicts for:

```
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']
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']
ibm-wsrt-py37main-main -> sqlite==3.33.0[build=*]
```

Package py conflicts for:

```
ibm-wsrt-py37main-main -> py==1.8.2[build=*]
pytest -> py[version='>=1.4.29|>=1.4.33|>=1.5.0|>=1.8.2']
pymzmq -> py
```

Package typing conflicts for:

```
pytorch -> typing
typing_extensions -> typing[version='>=3.6.2|>=3.7.4']
```

Package brotli conflicts for:

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

Package pyqt conflicts for:

```
ibm-wsrt-py37main-main -> pyqt==5.9.2[build=*]
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.*']
```

Package jupyterlab conflicts for:

```
ibm-wsrt-py37main-main -> jupyterlab==2.2.6[build=*]
arcgis=1.6.0 -> jupyterlab
```

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 ninja conflicts for:

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

Package pyshp conflicts for:

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

Package pycparser conflicts for:

ibm-wsrt-py37main-main -> pycparser==2.20[build=*]
cffi -> pycparser

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 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 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 jupyterlab_server conflicts for:

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']
ibm-wsrt-py37main-main -> jupyterlab_server==1.1.0[build=*]

Package termcolor conflicts for:

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

Package testpath conflicts for:

ibm-wsrt-py37main-main -> testpath==0.4.4[build=*]
nbconvert -> testpath

Package lzo conflicts for:

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

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']

Package statsmodels conflicts for:

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

Package _py-xgboost-mutex conflicts for:

ibm-wsrt-py37main-main -> _py-xgboost-mutex==2.0=cpu_0
py-xgboost -> _py-xgboost-mutex[version='1.0|2.0',build='gpu_0|cpu_0']
Note that strict channel priority may have removed packages required for satisfiability.

Collecting package metadata (current_repodata.json): done

Solving environment: failed with initial frozen solve. Retrying with flexible solve.

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|3.6.9|>=2.7,<2.8.0a0|3.6.9|>=3.5,<3.6.0a0|3.4.*',build='2_73_pypy|5_73_pypy|4_73_pypy|3_73_pypy|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 asked for. When python appears to the right, that indicates that the thing on the left is 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 cryptography conflicts for:

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

Package attrs conflicts for:

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

Package libgcc-ng conflicts for:

```
jpeg -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0']
ibm-wsrt-py37main-main -> libgcc-ng==9.1.0[build=*]
blas -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
gmp -> 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']
yarl -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
cytoolz -> 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']
fastcache -> 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']
matplotlib -> libgcc-ng[version='>=7.2.0|>=7.3.0']
readline -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
fontconfig -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
regex -> 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']
c-ares -> libgcc-ng[version='>=4.9|>=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']
libxgboost -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=5.4.0|>=7.2.0']
markupsafe -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
multidict -> 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']
py-xgboost -> libgcc-ng[version='>=4.9|>=7.3.0|>=5.4.0|>=7.2.0']
libffi -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
psycopg2 -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
pymz -> 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']
tk -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pyqt -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libprotobuf -> 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']
zlib -> 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']
gst-plugins-base -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
numpy-base -> libgcc-ng[version='>=7.2.0|>=7.3.0']
mistune -> 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']
icu -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
ninja -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
freetds -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
snappy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
libtiff -> 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']
pcre -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.2.0']
pymssql -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0']
pyodbc -> 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']
gstreamer -> 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']
matplotlib-base -> libgcc-ng[version='>=7.3.0|>=7.5.0|>=9.3.0']
pysistent -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
tornado -> 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']
kiwisolver -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=7.5.0|>=9.3.0']
pyyaml -> 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']
sqlalchemy -> 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']
libxcb -> libgcc-ng[version='>=4.9|>=7.3.0|>=9.3.0|>=7.2.0']
pytorch -> libgcc-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
tensorboard -> libgcc-ng[version='>=7.2.0|>=7.3.0']
xz -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
scikit-learn -> 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']
statsmodels -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libpq -> 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']
grpcio -> 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|>=7.2.0']
libpng -> 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']
blosc -> 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']
pillow -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=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']
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']
protobuf -> 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']
lzo -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
lcms2 -> libgcc-ng[version='>=7.3.0|>=7.5.0']
dbus -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
astropy -> 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']
python=3.7 -> 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']
glib -> 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']
freetype -> 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']

```

```
numpy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libedit -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
brotlipy -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
wrapit -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
zstd -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
libuuid -> libgcc-ng[version='>=7.2.0|>=7.3.0|>=9.3.0']
cx_oracle -> libgcc-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
biopython -> 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']
```

Package setuptools conflicts for:

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

Package typing_extensions conflicts for:

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

Package cytoolz conflicts for:

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

Package mkl conflicts for:

```
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']
tensorflow-base -> mkl[version='>=2018.0.2,<2019.0a0']
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']
blas -> mkl
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']
ibm-wsrt-py37main-main -> mkl==2020.1[build=*]
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']
scipy -> mkl[version='>=2018.0.0,<2019.0a0|>=2018.0.2,<2019.0a0|>=2018.0.3,<2019.0a0|>=2019.1,<2021.0a0|>=2019.3,<2021.0a0|>=2019.4,<2021.0a0']
```



```
1.0a0|>=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']
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']
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']
```

Package networkx conflicts for:

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

Package pypy3.7 conflicts for:

```
tornado -> pypy3.7[version='>=7.3.3']
scipy -> pypy3.7[version='>=7.3.3']
sympy -> pypy3.7[version='>=7.3.3']
mock -> pypy3.7[version='>=7.3.3']
lxml -> pypy3.7[version='>=7.3.3']
kiwisolver -> pypy3.7[version='>=7.3.3']
numpy -> pypy3.7[version='>=7.3.3']
pluggy -> pypy3.7[version='>=7.3.3']
astropy -> pypy3.7[version='>=7.3.3']
biopython -> pypy3.7[version='>=7.3.3']
secretstorage -> pypy3.7[version='>=7.3.3']
matplotlib-base -> pypy3.7[version='>=7.3.3']
markupsafe -> pypy3.7[version='>=7.3.3']
pyzmq -> pypy3.7[version='>=7.3.3']
yarl -> pypy3.7[version='>=7.3.3']
brotlipy -> pypy3.7[version='>=7.3.3']
chardet -> pypy3.7[version='>=7.3.3']
pyyaml -> pypy3.7[version='>=7.3.3']
terminado -> pypy3.7[version='>=7.3.3']
numexpr -> pypy3.7[version='>=7.3.3']
pywavelets -> pypy3.7[version='>=7.3.3']
pillow -> pypy3.7[version='>=7.3.3']
cryptography -> pypy3.7[version='>=7.3.3']
pytest -> pypy3.7[version='>=7.3.3']
bokeh -> pypy3.7[version='>=7.3.3']
multidict -> pypy3.7[version='>=7.3.3']
docutils -> pypy3.7[version='>=7.3.3']
wrapt -> pypy3.7[version='>=7.3.3']
cffi -> pypy3.7=7.3.3
jedi -> pypy3.7[version='>=7.3.3']
importlib-metadata -> pypy3.7[version='>=7.3.3']
sqlalchemy -> pypy3.7[version='>=7.3.3']
setuptools -> pypy3.7[version='>=7.3.3']
pandas -> pypy3.7[version='>=7.3.3']
pytables -> pypy3.7[version='>=7.3.3']
matplotlib -> pypy3.7[version='>=7.3.3']
pysistent -> pypy3.7[version='>=7.3.3']
protobuf -> pypy3.7[version='>=7.3.3']
jupyter_core -> pypy3.7[version='>=7.3.3']
nbconvert -> pypy3.7[version='>=7.3.3']
mistune -> pypy3.7[version='>=7.3.3']
pysocks -> pypy3.7[version='>=7.3.3']
aiohttp -> pypy3.7[version='>=7.3.3']
python=3.7 -> pypy3.7=7.3.3
cx_oracle -> pypy3.7[version='>=7.3.3']
regex -> pypy3.7[version='>=7.3.3']
future -> pypy3.7[version='>=7.3.3']
certifi -> pypy3.7[version='>=7.3.3']
```

```
ipython -> pypy3.7[version='>=7.3.3']
```

Package libprotobuf conflicts for:

```
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']
tensorflow-base -> libprotobuf[version='>=3.6.1,<3.7.0a0|>=3.8.0,<3.9.0a0|>=3.9.1,<3.10.0a0']
ibm-wsrt-py37main-main -> libprotobuf==3.12.3[build=*]
```

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 pluggy conflicts for:

```
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']
ibm-wsrt-py37main-main -> pluggy==0.13.1[build=*]
```

Package beautifulsoup4 conflicts for:

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

Package zlib conflicts for:

```
zstd -> zlib[version='>=1.2.11,<1.3.0a0']
matplotlib -> 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']
gst-plugins-base -> zlib[version='>=1.2.11,<1.3.0a0']
freetype -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
qt -> zlib[version='1.2.*|>=1.2.11,<1.3.0a0']
pandoc -> zlib[version='1.2.*|1.2.11|1.2.11.*']
hdf5 -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0|1.2.8']
pillow -> zlib[version='1.2.*|1.2.11|1.2.11.*|>=1.2.11,<1.3.0a0|1.2.8']
tensorflow-base -> zlib[version='>=1.2.11,<1.3.0a0']
grpcio -> zlib[version='>=1.2.11,<1.3.0a0']
python=3.7 -> zlib[version='>=1.2.11,<1.3.0a0']
ibm-wsrt-py37main-main -> zlib==1.2.11[build=*]
libxml2 -> zlib[version='1.2.*|1.2.11|>=1.2.11,<1.3.0a0']
libprotobuf -> zlib[version='1.2.11|>=1.2.11,<1.3.0a0']
sqlite -> zlib[version='>=1.2.11,<1.3.0a0']
protobuf -> 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']
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']
pytables -> 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']
```

Package tqdm conflicts for:

```
nlTK -> tqdm
ibm-wsrt-py37main-main -> tqdm==4.47.0[build=*]
```

Package gmpy2 conflicts for:

```
mpmath -> gmpy2
sympy -> gmpy2[version='>=2.0.8']
```

Package six conflicts for:

```
tensorflow-estimator -> six[version='>=1.10.0']
```

```

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

```

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 pytz conflicts for:

```

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

```

Package packaging conflicts for:

```

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

```

Package libstdcxx-ng conflicts for:

```

pymssql -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0']
matplotlib -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
zstd -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
snappy -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
glib -> 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']

```

```

libtiff -> 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']
pandas -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
numexpr -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
numpy -> libstdcxx-ng[version='>=4.9|>=7.3.0']
libprotobuf -> 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']
protobuf -> 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']
lz4-c -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
freetype -> libstdcxx-ng[version='>=4.9']
unixodbc -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0']
gst-plugins-base -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
sip -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
zeromq -> 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']
libffi -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
scikit-learn -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
mkl_fft -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
tensorflow-base -> libstdcxx-ng[version='>=5.4.0|>=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']
python=3.7 -> 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']
sqlite -> libstdcxx-ng[version='>=4.9|>=7.3.0']
pytables -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
scipy -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=7.2.0']
expat -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.2.0']
freetds -> libstdcxx-ng[version='>=4.9|>=7.3.0']
tensorboard -> libstdcxx-ng[version='>=7.2.0|>=7.3.0']
pyzmq -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0']
pytorch -> libstdcxx-ng[version='>=5.4.0|>=7.3.0|>=7.5.0']
krb5 -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
gmp -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
ibm-wsrt-py37main-main -> libstdcxx-ng==9.1.0[build=*]
qt -> libstdcxx-ng[version='>=7.2.0|>=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']
libxgboost -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=9.3.0|>=5.4.0|>=7.2.0']
ncurses -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
pcre -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.2.0']
scikit-image -> 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']
pyqt -> libstdcxx-ng[version='>=4.9|>=7.3.0|>=7.5.0|>=7.2.0']
biopython -> libstdcxx-ng[version='>=7.2.0']
yaml -> libstdcxx-ng[version='>=7.3.0']

```

Package parso conflicts for:

```

ibm-wsrt-py37main-main -> parso==0.7.0[build=*]
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']

```

Package scipy conflicts for:

```

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

```

nlTK -> scipy

Package subprocess32 conflicts for:

matplotlib -> subprocess32

matplotlib-base -> subprocess32

jupyterlab -> subprocess32

Package pypy3.6 conflicts for:

sqlalchemy -> 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']

pywavelets -> pypy3.6[version='>=7.3.1|>=7.3.2']

keyring -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

beautifulsoup4 -> pypy3.6[version='>=7.3.1']

mistune -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

pandas -> pypy3.6[version='>=7.3.1|>=7.3.2']

sympy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

numexpr -> pypy3.6[version='>=7.3.2|>=7.3.3']

statsmodels -> pypy3.6[version='>=7.3.3']

pluggy -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

s3transfer -> pypy3.6[version='>=7.3.2']

ipython -> pypy3.6[version='>=7.3.1|>=7.3.3']

pysocks -> pypy3.6[version='>=7.3.2|>=7.3.3']

kiwisolver -> pypy3.6[version='>=7.3.2|>=7.3.3']

nbconvert -> pypy3.6[version='>=7.3.1|>=7.3.2']

tornado -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

entrypoints -> pypy3.6[version='>=7.3.2']

widgetsnbextension=3.5.1 -> pypy3.6[version='>=7.3.1|>=7.3.2']

multidict -> 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']

certifi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

importlib-metadata -> pypy3.6[version='>=7.3.1|>=7.3.3']

absl-py -> pypy3.6[version='>=7.3.1|>=7.3.2']

ninja -> pypy3.6[version='>=7.3.1']

mock -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

jedi -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

markupsafe -> pypy3.6[version='>=7.3.2|>=7.3.3']

lxml -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

secretstorage -> pypy3.6[version='>=7.3.2']

matplotlib -> pypy3.6[version='>=7.3.2']

protobuf -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

docutils -> pypy3.6[version='>=7.3.2|>=7.3.3']

aiohttp -> pypy3.6[version='>=7.3.2|>=7.3.3']

cx_oracle -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

bokeh -> pypy3.6[version='>=7.3.1|>=7.3.2']

psycopg2 -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

pytest -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

pyyaml -> pypy3.6[version='>=7.3.2|>=7.3.3']

bratli -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

soupsieve -> pypy3.6[version='>=7.3.1']

pillow -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

terminado -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

wrapt -> pypy3.6[version='>=7.3.2|>=7.3.3']

chardet -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

pickleshare -> pypy3.6[version='>=7.3.2']

notebook -> 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']

setuptools -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

scikit-image -> pypy3.6[version='>=7.3.2']

effi -> 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']

future -> pypy3.6[version='>=7.3.2|>=7.3.3']

```

cryptography -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
scipy -> pypy3.6[version='>=7.3.1|>=7.3.2']
biopython -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']
scikit-learn -> pypy3.6[version='>=7.3.2|>=7.3.3']
yarl -> pypy3.6[version='>=7.3.2|>=7.3.3']
ipykernel -> 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']
pypersistent -> pypy3.6[version='>=7.3.1|>=7.3.2|>=7.3.3']

```

Package libgcc conflicts for:

```

pytorch -> libgcc
pyqt -> libgcc
scipy -> libgcc

```

Package certifi conflicts for:

```

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

```

Package mock conflicts for:

```

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

```

Package pandocfilters conflicts for:

```

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

```

Package traitlets conflicts for:

```

ipython -> traitlets[version='>=4.2']
ibm-wsrt-py37main-main -> traitlets==4.3.3[build=*]
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']
notebook -> traitlets[version='>=4.2.1|>=4.3']
ipykernel -> traitlets[version='>=4.1']
nbconvert -> traitlets[version='>=4.2']
jupyter_core -> traitlets
jupyter_client -> traitlets

```

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,<3.1.0|>=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 matplotlib conflicts for:

```

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

```

Package bzip2 conflicts for:

```

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']

```

```
ibm-wsrt-py37main-main -> bzip2==1.0.8[build=*]
```

Package blas conflicts for:

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

Package icu conflicts for:

```
libxslt -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0']
qt -> icu[version='58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0']
matplotlib -> icu[version='>=58.2,<59.0a0']
fontconfig -> icu[version='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-base -> icu[version='>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0']
libxml2 -> icu[version='56.*|58.*|>=58.2,<59.0a0|>=64.2,<65.0a0|>=67.1,<68.0a0|>=68.1,<69.0a0']
```

Package python_abi conflicts for:

```
jedi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp39|*_cp37m|*_pypy37_pp73|*_pypy36_pp73|*_cp36m']
brotlipy -> python_abi[version='3.6|3.6.*|3.7|3.9.*|3.8.*|3.7.*',build='*_cp37m|*_cp38|*_cp36m|*_cp39|*_pypy37_pp73|*_pypy36_pp73']
importlib-metadata -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp39|*_pypy37_pp73|*_cp37m|*_cp36m|*_pypy36_pp73']
psycogp2 -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp38|*_cp39|*_cp37m|*_cp36m']
h5py -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_cp37m']
docutils -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp36m|*_cp37m|*_cp39|*_pypy37_pp73|*_pypy36_pp73']
statsmodels -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_pypy36_pp73|*_cp39|*_cp36m']
chardet -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_cp36m|*_cp38|*_cp39|*_cp37m|*_pypy36_pp73|*_pypy37_pp73']
secretstorage -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_cp36m|*_cp39|*_pypy37_pp73|*_pypy36_pp73']
traitlets -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_cp37m|*_pypy36_pp73']
fastcache -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp39|*_cp37m|*_cp36m']
soupsieve -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_cp37m|*_pypy36_pp73']
aiohttp -> python_abi[version='3.6|3.6.*|3.8.*|3.9.*|3.7.*|3.7',build='*_pypy37_pp73|*_cp38|*_cp36m|*_pypy36_pp73|*_cp39|*_cp37m']
python=3.7 -> python_abi==3.7[build='*_pypy37_pp73']
pillow -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp38|*_cp36m|*_cp37m|*_pypy36_pp73|*_cp39|*_pypy37_pp73']
pytest -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp38|*_cp36m|*_cp39|*_cp37m|*_pypy37_pp73|*_pypy36_pp73']
mistune -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.8.*|3.7.*',build='*_cp27mu|*_cp37m|*_cp38|*_pypy37_pp73|*_cp39|*_cp36m|*_pypy36_pp73']
biopython -> python_abi[version='3.6|3.6.*|3.9.*|3.7.*|3.7|3.8.*',build='*_cp38|*_cp37m|*_cp36m|*_pypy36_pp73|*_cp39|*_pypy37_pp73']
jupyter_core -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7.*|3.8.*|3.7',build='*_cp27mu|*_cp38|*_cp37m|*_cp39|*_cp36m|*_pypy36_pp73|*_pypy37_pp73']
matplotlib -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_pypy37_
```

```

pp73|*_pypy36_pp73|*_cp36m']
scipy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_pypy36_pp73|*_cp39|*_cp38|*_cp37m|*_pypy37_pp73|*_cp36m']
tornado -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*|3.9.*|3.7',build='*_pypy37_pp73|*_cp39|*_cp38|*_cp37m|*_cp36m|*_pypy36_pp73']
lxml -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_cp36m|*_cp38|*_cp39|*_cp37m|*_pypy36_pp73|*_pypy37_pp73']
absl-py -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp39|*_cp38|*_cp36m|*_pypy36_pp73|*_cp37m|*_cp27mu']
pluggy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_cp37m|*_pypy37_pp73|*_pypy36_pp73']
pickleshare -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy36_pp73']
matplotlib-base -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_pypy36_pp73|*_cp38|*_cp39|*_cp36m|*_pypy37_pp73|*_cp37m']
notebook -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp39|*_cp37m|*_cp36m|*_pypy36_pp73']
pymzq -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_cp36m|*_cp38|*_cp39|*_cp37m|*_pypy37_pp73|*_pypy36_pp73']
requests -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp27mu|*_cp36m|*_cp37m|*_cp38|*_pypy36_pp73']
regex -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_cp38|*_cp37m|*_pypy36_pp73|*_cp39|*_cp36m|*_pypy37_pp73']
markupsafe -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7|3.7.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_pypy37_pp73|*_cp39|*_cp36m|*_pypy36_pp73']
beautifulsoup4 -> python_abi[version='3.6|3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp38|*_cp37m|*_pypy36_pp73']
astropy -> python_abi[version='3.6.*|3.7.*|3.7|3.8.*|3.9.*',build='*_cp37m|*_cp38|*_pypy37_pp73|*_cp39|*_cp36m']
entrypoints -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp27mu|*_cp38|*_cp37m|*_pypy36_pp73|*_cp36m|*_cp39']
tensorflow-base -> python_abi[version='3.6.*|3.7.*',build='*_cp37m|*_cp36m']
mkl-service -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp39|*_cp37m|*_cp36m']
sympy -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp39|*_cp36m|*_pypy36_pp73|*_pypy37_pp73|*_cp37m']
setuptools -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_pypy36_pp73|*_cp38|*_cp37m|*_pypy37_pp73|*_cp36m|*_cp39']
numexpr -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_pypy37_pp73|*_cp36m|*_pypy36_pp73|*_cp39']
pytorch -> python_abi[version='3.6.*|3.7.*|3.8.*|3.9.*',build='*_cp39|*_cp38|*_cp37m|*_cp36m']
mkl_random -> python_abi[version='3.6.*|3.7.*|3.8.*',build='*_cp36m|*_cp38|*_cp37m']
dill -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp37m|*_cp27mu|*_cp36m|*_cp38|*_pypy36_pp73']
jsonschema -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_pypy36_pp73|*_cp36m']
pytables -> python_abi[version='3.6.*|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_pypy37_pp73|*_cp36m|*_cp39']
ninja -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*',build='*_cp38|*_cp36m|*_pypy36_pp73|*_cp37m']
pexpect -> python_abi[version='2.7.*|3.6|3.6.*|3.8.*|3.7.*',build='*_cp38|*_cp36m|*_pypy36_pp73|*_cp27mu|*_cp37m']
future -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.7|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp36m|*_cp37m|*_cp39|*_pypy37_pp73|*_pypy36_pp73']
typing_extensions -> python_abi[version='2.7.*|3.6.*|3.6|3.8.*|3.7.*',build='*_cp27mu|*_cp36m|*_cp37m|*_cp38|*_pypy36_pp73']
glib -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_cp36m|*_pypy36_pp73']
wrapt -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.8.*|3.7',build='*_cp27mu|*_cp36m|*_pypy37_pp73|*_cp38|*_cp39|*_cp37m|*_pypy36_pp73']
keyring -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_pypy36_pp73|*_cp37m|*_cp39']
mock -> python_abi[version='2.7.*|3.6.*|3.6|3.9.*|3.7.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_cp39|

```



```

*_pypy36_pp73|*_cp36m|*_pypy37_pp73']
cryptography -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_pypy37_pp73|*_cp36m|*_cp39|*_cp37m|*_pypy36_pp73']
pywavelets -> python_abi[version='3.6.*|3.6|3.7|3.8.*|3.9.*|3.7.*',build='*_cp37m|*_cp39|*_cp38|*_pypy37_pp73|*_pypy36_pp73|*_cp36m']
cx_oracle -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_cp39|*_pypy37_pp73|*_pypy36_pp73|*_cp36m']
s3transfer -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy36_pp73']
pandas -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.9.*|3.8.*',build='*_cp36m|*_cp38|*_cp37m|*_cp39|*_pypy37_pp73|*_pypy36_pp73']
py-xgboost -> python_abi[version='3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp39|*_cp38|*_cp36m|*_cp37m']
urllib3 -> python_abi[version='2.7.*|3.8.*|3.6.*|3.6|3.7.*',build='*_cp37m|*_cp38|*_cp27mu|*_cp36m|*_pypy36_pp73']
grpcio -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp36m|*_cp39|*_cp37m|*_pypy36_pp73']
terminado -> python_abi[version='2.7.*|3.6|3.6.*|3.7|3.9.*|3.7.*|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_cp36m|*_cp39|*_pypy37_pp73|*_pypy36_pp73']
ipykernel -> python_abi[version='3.6|3.6.*|3.9.*|3.7.*|3.8.*',build='*_cp38|*_cp37m|*_cp36m|*_pypy36_pp73|*_cp39']
cytoolz -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_cp39|*_cp37m']
pysistent -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_pypy37_pp73|*_cp39|*_cp37m|*_pypy36_pp73']
pyodbc -> python_abi[version='2.7.*|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp36m|*_cp38|*_cp39|*_cp37m']
multidict -> python_abi[version='3.6.*|3.6|3.7.*|3.8.*|3.7|3.9.*',build='*_cp39|*_cp38|*_cp37m|*_pypy36_pp73|*_pypy37_pp73|*_cp36m']
widgetsnbextension=3.5.1 -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp36m|*_pypy36_pp73|*_cp37m|*_cp39']
nbconvert -> python_abi[version='3.6.*|3.6|3.7|3.9.*|3.7.*|3.8.*',build='*_cp38|*_cp37m|*_cp39|*_pypy37_pp73|*_pypy36_pp73|*_cp36m']
scikit-learn -> python_abi[version='3.6|3.6.*|3.8.*|3.7.*|3.9.*',build='*_cp39|*_cp38|*_cp36m|*_pypy36_pp73|*_cp37m']
sqlalchemy -> python_abi[version='2.7.*|3.6|3.6.*|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_pypy37_pp73|*_cp36m|*_cp39|*_cp37m|*_pypy36_pp73']
certifi -> python_abi[version='2.7.*|3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp27mu|*_cp38|*_cp36m|*_cp39|*_cp37m|*_pypy37_pp73|*_pypy36_pp73']
scikit-image -> python_abi[version='3.6.*|3.6|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp38|*_cp39|*_cp37m|*_pypy36_pp73']
kiwisolver -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_cp37m|*_pypy36_pp73|*_cp39|*_cp36m|*_pypy37_pp73']
pyyaml -> python_abi[version='2.7.*|3.6.*|3.6|3.7.*|3.9.*|3.7|3.8.*',build='*_cp27mu|*_cp38|*_cp39|*_cp37m|*_pypy36_pp73|*_cp36m|*_pypy37_pp73']
pysocks -> python_abi[version='2.7.*|3.6|3.6.*|3.9.*|3.7.*|3.8.*|3.7',build='*_cp27mu|*_cp38|*_pypy36_pp73|*_cp39|*_cp36m|*_cp37m|*_pypy37_pp73']
bokeh -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_pypy37_pp73|*_cp39|*_pypy36_pp73|*_cp36m']
yarl -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.9.*|3.8.*',build='*_cp38|*_cp37m|*_pypy37_pp73|*_cp39|*_pypy36_pp73|*_cp36m']
pyqt -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp38|*_cp39|*_cp37m']
pymssql -> python_abi[version='3.6.*|3.7.*|3.9.*|3.8.*',build='*_cp36m|*_cp38|*_cp39|*_cp37m']
sip -> python_abi[version='3.6.*|3.8.*|3.9.*|3.7.*',build='*_cp37m|*_cp38|*_cp39|*_cp36m']
mkl_fft -> python_abi[version='3.6.*|3.9.*|3.8.*|3.7.*',build='*_cp37m|*_cp38|*_cp39|*_cp36m']
numpy -> python_abi[version='3.6.*|3.6|3.7|3.7.*|3.8.*|3.9.*',build='*_cp39|*_cp38|*_cp36m|*_pypy37_pp73|*_pypy36_pp73|*_cp37m']
protobuf -> python_abi[version='3.6.*|3.6|3.7.*|3.7|3.8.*|3.9.*',build='*_cp39|*_cp38|*_cp37m|*_pypy36_pp73|*_pypy37_pp73|*_cp36m']
cffi -> python_abi[version='3.6|3.6.*|3.7.*|3.9.*|3.8.*|3.7',build='*_cp36m|*_cp38|*_cp39|*_cp37m|*_pypy36_pp73|*_pypy37_pp73']
ipython -> python_abi[version='3.6|3.6.*|3.7|3.7.*|3.8.*|3.9.*',build='*_cp36m|*_cp39|*_cp38|*_cp37m|*_pypy37_pp73|*_pypy36_pp73']

```

Package tk conflicts for:

```
ibm-wsrt-py37main-main -> tk==8.6.10[build=*]
matplotlib-base -> tk[version='>=8.6.10,<8.7.0a0|>=8.6.9,<8.7.0a0|>=8.6.8,<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 -> tk[version='8.5.*|8.6.*|>=8.6.8,<8.7.0a0|>=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']
pillow -> 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']
```

Package pickleshare conflicts for:

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

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 freetype conflicts for:

```
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=*]
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']
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']
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']
```

Package click conflicts for:

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

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']
keras-applications -> numpy[version='>=1.9.1']
ibm-wsrt-py37main-main -> numpy==1.18.5[build=*]
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']
keras-preprocessing -> numpy[version='>=1.9.1']
patsy -> numpy[version='>=1.4.0']
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|>=1.18.5,<2.0a0|>=1.19.5,<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']
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']
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']
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']
tensorflow-estimator -> numpy[version='>=1.13.3|>=1.16.1']
matplotlib -> numpy[version='1.10.*|1.11.*|>=1.14.6,<2.0a0']
nltk -> numpy
mkl-service -> numpy[version='>=1.11.3,<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']
```

```
seaborn -> numpy[version='>=1.13.3|>=1.9.3']
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']
arcgis=1.6.0 -> numpy
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']
opt_einsum -> numpy
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']
imageio -> numpy
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-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|>=1.19.4,<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']
folium=0.5.0 -> numpy
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']
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']
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']
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']
tensorboard -> numpy[version='>=1.12|>=1.12.0|>=1.16']
```

Package libxslt conflicts for:

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

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,<4.3.0a0|>=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.*']
```

Package futures conflicts for:

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

Package jinja2 conflicts for:

```
jupyterlab_server -> jinja2[version='>2.10*|>=2.10']
bokeh -> jinja2[version='>=2.7']
notebook -> jinja2
jupyterlab -> jinja2[version='>=2.10']
folium=0.5.0 -> jinja2
ibm-wsrt-py37main-main -> jinja2==2.11.2[build=*]
nbconvert -> jinja2[version='>=2.4']
```

Package blinker conflicts for:

```
ibm-wsrt-py37main-main -> blinker==1.4[build=*]
oauthlib -> blinker
```

Package wrapt conflicts for:

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

Package toolz conflicts for:

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

Package pyqt conflicts for:

```
ibm-wsrt-py37main-main -> pyqt==5.9.2[build=*]
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.*']
```

Package notebook conflicts for:

```
ipywidgets -> notebook
arcgis=1.6.0 -> notebook
jupyterlab -> notebook[version='>=4.2|>=4.3|>=4.3.1']
widgetsnbextension=3.5.1 -> notebook[version='>=4.4.1']
jupyterlab_server -> notebook[version='>=4.2.0']
ibm-wsrt-py37main-main -> notebook==6.0.3[build=*]
```

Package absl-py conflicts for:

```
tensorflow-estimator -> absl-py[version='>=0.1.6|>=0.7.0']
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']
```

Package python-dateutil conflicts for:

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

Package sqlite conflicts for:

```
ibm-wsrt-py37main-main -> sqlite==3.33.0[build=*]
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']
```

Package google-auth conflicts for:

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

Package gettext conflicts for:

```
glib -> gettext[version='>=0.19.8.1,<1.0a0']
gststreamer -> gettext[version='>=0.19.8.1,<1.0a0']
gst-plugins-base -> gettext[version='>=0.19.8.1,<1.0a0']
```

Package pyyaml conflicts for:

```
ibm-wsrt-py37main-main -> pyyaml==5.3.1[build=*]
dask-core -> pyyaml
bokeh -> pyyaml[version='>=3.10']
```

<https://eu-gb.dataplatform.cloud.ibm.com/...0f-adeb5737be56?download=false&project=40af8fec-0d27-4de2-98c6-49c7e0324c97&api=v2>[21/01/2021 19:47:23]


```
notebook -> jupyter_core[version='>=4.4.0|>=4.6.0|>=4.6.1']
jupyter_client -> jupyter_core[version='>=4.6.0']
nbformat -> jupyter_core
nbconvert -> jupyter_core
```

Package pyjwt conflicts for:

```
ibm-wsrt-py37main-main -> pyjwt==1.7.1[build=*]
oauthlib -> pyjwt[version='>=1.0.0']
```

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 jpeg conflicts for:

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

Package _pytorch_select conflicts for:

```
ibm-wsrt-py37main-main -> _pytorch_select==0.1[build=*]
pytorch -> _pytorch_select[version='0.1|0.2']
```

Package pillow conflicts for:

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

Package werkzeug conflicts for:

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

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 unixodbc conflicts for:

```
freetds -> unixodbc[version='>=2.3.5,<2.4.0a0|>=2.3.7,<2.4.0a0|>=2.3.9,<2.4.0a0|>=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']
ibm-wsrt-py37main-main -> unixodbc==2.3.7[build=*]
```

Package _libgcc_mutex conflicts for:

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

Package jeepney conflicts for:

```
ibm-wsrt-py37main-main -> jeepney==0.4.0[build=*]
secretstorage -> jeepney[version='>=0.6']
keyring -> jeepney[version='>=0.4.2']
```

Package tensorboard conflicts for:

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

Package libxgboost conflicts for:

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

```
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']
ibm-wsrt-py37main-main -> gstreamer==1.14.0[build=*]
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']
```

```
Package xz conflicts for:
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']
ibm-wsrtpy37main-main -> xz==5.2.5[build=*]
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']
gststreamer -> 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']
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']
```

```
Package keras conflicts for:
keras-applications -> keras[version='>=2.1.6']
keras-preprocessing -> keras[version='>=2.1.6']
```


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 libiconv conflicts for:

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

Package hdf5 conflicts for:

```
ibm-wsrt-py37main-main -> hdf5==1.10.4[build=*]
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_mpich_*|mpi_openmpi_*|mpi_openmpi_*|mpi_openmpi_*']
pytables -> hdf5[version='1.10.1.*|1.10.1|>=1.10.3,<1.10.4.0a0|>=1.10.4,<1.10.5.0a0|>=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']
```

Package matplotlib-base conflicts for:

```
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|3.0.2|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|3.1.3|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|>=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='py37hef1b27d_1|py38hef1b27d_0|py36hef1b27d_0|py27h60b886d_1|py36h60b886d_1|py37h60b886d_1|py27hfd891ef_0|py36hfd891ef_0|py27h250f245_2|py37h250f245_2|py38h250f245_2|py36h167e16e_1000|py36h167e16e_1001|py36h167e16e_1002|py36h167e16e_0|py37h5f35d83_1|py36h5f35d83_1|py36h5f35d83_0|py37h5f35d83_0|py36hfd891ef_1|py37he7580a8_1|py36he7580a8_1|py38h250f245_2|py38h250f245_0|py36h250f245_0|py38h250f245_0|py37h250f245_0|py38h250f245_1|py37h250f245_1|py36h250f245_1|py36h250f245_0|py37h250f245_0|py36h250f245_2|py37h250f245_2|py38h250f245_1|py37hfd891ef_0|py36hfd891ef_0|py37hfd891ef_1|py37h167e16e_0|py37h167e16e_1002|py37h167e16e_1001|py37hc2fb212_1001|py36h250f245_2|py27h250f245_1|py36h250f245_1|py37h250f245_1|py37hfd891ef_0|py36h250f245_1|py27h250f245_1|py37h250f245_1|py37hef1b27d_0|py36hef1b27d_1|py38hef1b27d_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 libgfortran5 conflicts for:

```
hdf5 -> libgfortran5[version='>=9.3.0']
scipy -> libgfortran5[version='>=9.3.0']
blas -> libgfortran5[version='>=9.3.0']
libgfortran-ng -> libgfortran5[version='8.4.0.*|9.3.0.*']
```

Package pyshp conflicts for:

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

Package libpng conflicts for:

```
gst-plugins-base -> libpng[version='>=1.6.37,<1.7.0a0']
ibm-wsrt-py37main-main -> libpng==1.6.37[build=*]
matplotlib-base -> libpng[version='>=1.6.35,<1.7.0a0|>=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']
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']
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']
tensorflow-base -> libpng[version='>=1.6.37,<1.7.0a0']
```

Package lcms2 conflicts for:

```
pillow -> lcms2[version='>=2.11,<3.0a0']
ibm-wsrt-py37main-main -> lcms2==2.11[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 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 _py-xgboost-mutex conflicts for:

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

Package requests conflicts for:

```
bokeh -> requests[version='>=1.2.3']
jupyterlab_server -> requests
tensorboard -> requests[version='>=2.21.0,<3']
plotly -> requests
folium=0.5.0 -> requests
ibm-wsrt-py37main-main -> requests==2.24.0[build=*]
nlTK -> requests
requests-oauthlib -> requests[version='>=2.0.0']
```

Package wcwidth conflicts for:

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

Package glib conflicts for:

```
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']
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']
qt -> glib[version='>=2.53.6,<3.0a0|>=2.56.1,<3.0a0|>=2.56.2,<3.0a0|>=2.58.3,<3.0a0']
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']
```

Package pytest conflicts for:

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

Package configparser conflicts for:

```
importlib_metadata -> configparser[version='>=3.5']
importlib-metadata -> configparser[version='>=3.5']
entrypoints -> configparser[version='>=3.5']
```

Package pywavelets conflicts for:

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

Package aiohttp conflicts for:

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

Package nbformat conflicts for:

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

Package pycparser conflicts for:

cffi -> pycparser
ibm-wsrt-py37main-main -> pycparser==2.20[build=*]

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 gmp conflicts for:

ibm-wsrt-py37main-main -> gmp==6.1.2[build=*]
pandoc -> gmp

Package scikit-learn conflicts for:

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

Package pyparsing conflicts for:

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

Package defusedxml conflicts for:

nbconvert -> defusedxml
ibm-wsrt-py37main-main -> defusedxml==0.6.0[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 patsy conflicts for:

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

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']
ibm-wsrt-py37main-main -> blosc==1.19.0[build=*]

Package libxml2 conflicts for:

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|>=2.9.7,<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']
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']
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']

Package pandas conflicts for:

statsmodels -> pandas[version='>=0.14|>=0.21|>=0.23']

bokeh -> pandas

folium=0.5.0 -> pandas

arccis=1.6.0 -> pandas[version='>=0.23']

ibm-wsrt-py37main-main -> pandas==1.0.5[build=*]

seaborn -> pandas[version='>=0.14.0|>=0.22.0']

Package pexpect conflicts for:

ibm-wsrt-py37main-main -> pexpect==4.8.0[build=*]

ipython -> pexpect[version='>4.3']

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 cloudpickle conflicts for:

ibm-wsrt-py37main-main -> cloudpickle==1.5.0[build=*]

scikit-image -> cloudpickle[version='>=0.2.1']

Package libpq conflicts for:

qt -> libpq[version='>=12.3,<13.0a0']

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=*]

Package ipython_genutils conflicts for:

notebook -> ipython_genutils

ibm-wsrt-py37main-main -> ipython_genutils==0.2.0[build=*]

traitlets -> ipython_genutils

nbformat -> ipython_genutils

Package future conflicts for:

pytorch -> future

ibm-wsrt-py37main-main -> future==0.18.2[build=*]

tensorflow-base -> future

Package contextlib2 conflicts for:

importlib_metadata -> contextlib2

importlib-metadata -> contextlib2

Package pathlib2 conflicts for:

pytest -> pathlib2[version='>=2.2.0']

testpath -> pathlib2

importlib-metadata -> pathlib2

ipython -> pathlib2

pickleshare -> pathlib2

importlib_metadata -> pathlib2

Package numexpr conflicts for:

ibm-wsrt-py37main-main -> numexpr==2.7.1[build=*]

pytables -> numexpr

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 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 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 tensorflow-base conflicts for:

```
ibm-wsrt-py37main-main -> tensorflow-base==2.1.0[build=*]
tensorflow-estimator -> tensorflow-base[version='>=1.14.0,<1.15.0a0|>=1.15.0,<1.16.0a0|>=2.0.0,<2.1.0a0|>=2.1.0,<2.2.0a0|>=2.2.0,<2.3.0a0|>=2.3.0,<2.4.0a0']
```

Package retrying conflicts for:

```
ibm-wsrt-py37main-main -> retrying==1.3.3[build=*]
plotly -> retrying[version='>=1.3.3']
```

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 mistune conflicts for:

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

Package pyzmq conflicts for:

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

Package keyring conflicts for:

```
ibm-wsrt-py37main-main -> keyring==18.0.0[build=*]
arcgis=1.6.0 -> keyring
```

Package zstd conflicts for:

```
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']
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']
```

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 sip conflicts for:

```
pyqt -> sip[version='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 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']
ibm-wsrt-py37main-main -> fontconfig==2.13.0[build=*]
```

Package idna conflicts for:

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

Package singledispatch conflicts for:

```
nlTK -> singledispatch
```

Package cffi conflicts for:

pytorch -> cffi

```
ibm-wsrt-py37main-main -> cffi==1.14.0[build=*
```

Package jupyter client conflicts for:

ibm-wsrt-py37main-main -> jupyter_client==6.1.3[build=*]

```
ipykernel -> jupyter_client
```

```
nbconvert -> jupyter_client[version='>=4.2']
```

```
notebook -> jupyter_client[version='>=5.2.0|>=5.3.1|>=5.3.4']
```

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']>=7.6.5,<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 numpy-base conflicts for:

```
numexpr -> numpy-base[version='>=1.17.3,<2.0a0']
```

ibm-wsrt-py37main-main -> numpy-base==1.18.5[build=*]

[illegible]

```

5_0|py27hde5b4d6_1|py36hde5b4d6_1|py36h2f8d375_1|py37h2f8d375_1|py27h2f8d375_1|py37hde5b4d6_
0|py36hde5b4d6_0|py36h2f8d375_0|py37h2f8d375_0|py36hde5b4d6_1|py27hde5b4d6_1|py36h2f8d375_1|
py27h2f8d375_1|py37h2f8d375_1|py36hde5b4d6_0|py36h2f8d375_0|py37hde5b4d6_0|py37h2f8d375_0|py
27h2f8d375_0|py37hde5b4d6_0|py36hde5b4d6_0|py27h81de0dd_0|py27h2f8d375_0|py36h2f8d375_0|py37
h2f8d375_0|py36h81de0dd_0|py27h81de0dd_0|py37h2f8d375_0|py36h2f8d375_0|py27h2f8d375_0|py37h2
f8d375_1|py27h2f8d375_1|py36h2f8d375_0|py35h2f8d375_0|py27h81de0dd_0|py27h2f8d375_0|py37h2f8d
375_0|py37h2f8d375_0|py36h2f8d375_0|py27h2f8d375_0|py35h2f8d375_0|py37h81de0dd_0|py27h81de0d
d_0|py36h81de0dd_0|py36h74e8950_0|py35h3dfced4_0|py35h7cdd4dd_0|py37h7cdd4dd_0|py27h7cdd4dd_
0|py36hde5b4d6_5|py37hde5b4d6_5|py27hde5b4d6_5|py27h2f8d375_5|py36h2f8d375_5|py38hde5b4d6_4|
py36h81de0dd_4|py37h81de0dd_4|py35h81de0dd_4|py36h2f8d375_4|py27h81de0dd_4|py35h2f8d375_4|py
37h2f8d375_4|py35hdbf6ddf_4|py36hdbf6ddf_4|py27hdbf6ddf_4|py36hdbf6ddf_3|py36h2b20989_3|py37hd
bf6ddf_2|py37h2b20989_2|py27h2b20989_2|py27h2b20989_0|py35hdbf6ddf_0|py36h2b20989_0|py35h9be
14a7_1|py27h9be14a7_1|py36h9be14a7_1|py35h0ea5e3f_1|py36h0ea5e3f_1|py38h2f8d375_12|py37hde5b4
d6_12|py37hde5b4d6_11|py27h2f8d375_11|py37h2f8d375_11|py36h2f8d375_10|py35h81de0dd_10|py37h8
1de0dd_10|py27h81de0dd_10|py27h74e8950_10|py37h74e8950_10|py35h81de0dd_9|py27h81de0dd_9|py3
5h74e8950_9|py36h81de0dd_9|py27h3dfced4_9|py35h3dfced4_9|py37h3dfced4_9|py37h7cdd4dd_9|py35h7
cdd4dd_9|py36h7cdd4dd_9|py35h2b20989_8|py35hdbf6ddf_8|py27hdbf6ddf_8|py37h2b20989_8|py36hdbf
6ddf_8|py37hdbf6ddf_7|py27h2b20989_7|py36h2b20989_7|py36hdbf6ddf_7|py27h2b20989_7|py27hdbf6dd
f_7|py36hdbf6ddf_6|py27hdbf6ddf_6|py37h2b20989_6|py36h2b20989_6']
mkl_fft -> numpy-base[version='>=1.0.6,<2.0a0']
mkl_random -> numpy-base[version='>=1.0.2,<2.0a0']

```

Package llvm-openmp conflicts for:

```

mkl -> llvm-openmp[version='>=10.0.0|>=11.0.0|>=9.0.1']
blas -> llvm-openmp[version='>=10.0.0|>=11.0.0|>=9.0.1']

```

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 snappy conflicts for:

```

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

```

Package backcall conflicts for:

```

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

```

Package readline conflicts for:

```

libpq -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']
python=3.7 -> readline[version='>=7.0,<8.0a0|>=8.0,<9.0a0']
ibm-wsrt-py37main-main -> readline==8.0[build=*]
freetds -> 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']

```

Package zipp conflicts for:

```

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

```

Package fastcache conflicts for:

```

ibm-wsrt-py37main-main -> fastcache==1.1.0[build=*]
sympy -> fastcache

```

Package enum34 conflicts for:

```

tensorflow-estimator -> enum34[version='>=1.1.6']
absl-py -> enum34
brotlipy -> enum34
tensorflow-base -> enum34[version='>=1.1.6|>=1.1.6,<2.0a0']
traitlets -> enum34
pyqt -> enum34

```

grpcio -> enum34[version='>=1.0.4']

imageio -> enum34

cryptography -> enum34

Package markupsafe conflicts for:

jinja2 -> markupsafe[version='>=0.23']

ibm-wsrt-py37main-main -> markupsafe==1.1.1[build=*]

Package ca-certificates conflicts for:

openssl -> ca-certificates

ibm-wsrt-py37main-main -> ca-certificates==2020.12.8[build=*]

Package entrypoints conflicts for:

jupyter_client -> entrypoints

keyring -> entrypoints

nbconvert -> entrypoints[version='>=0.2.2']

ibm-wsrt-py37main-main -> entrypoints==0.3[build=*]

Package botocore conflicts for:

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']

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,<1.13.0|>=1.12.107,<1.13.0|>=1.12.108,<1.13.0|>=1.12.109,<1.13.0|>=1.12.110,<1.13.0|>=1.12.111,<1.13.0|>=1.12.112,<1.13.0|>=1.12.113,<1.13.0|>=1.12.114,<1.13.0|>=1.12.115,<1.13.0|>=1.12.116,<1.13.0|>=1.12.117,<1.13.0|>=1.12.118,<1.13.0|>=1.12.119,<1.13.0|>=1.12.120,<1.13.0|>=1.12.121,<1.13.0|>=1.12.122,<1.13.0|>=1.12.123,<1.13.0|>=1.12.124,<1.13.0|>=1.12.125,<1.13.0|>=1.12.126,<1.13.0|>=1.12.127,<1.13.0|>=1.12.128,<1.13.0|>=1.12.129,<1.13.0|>=1.12.130,<1.13.0|>=1.12.131,<1.13.0|>=1.12.132,<1.13.0|>=1.12.133,<1.13.0|>=1.12.134,<1.13.0|>=1.12.135,<1.13.0|>=1.12.136,<1.13.0|>=1.12.137,<1.13.0|>=1.12.138,<1.13.0|>=1.12.139,<1.13.0|>=1.12.140,<1.13.0|>=1.12.141,<1.13.0|>=1.12.142,<1.13.0|>=1.12.143,<1.13.0|>=1.12.144,<1.13.0|>=1.12.145,<1.13.0|>=1.12.146,<1.13.0|>=1.12.147,<1.13.0|>=1.12.148,<1.13.0|>=1.12.149,<1.13.0|>=1.12.150,<1.13.0|>=1.12.151,<1.13.0|>=1.12.152,<1.13.0|>=1.12.153,<1.13.0|>=1.12.154,<1.13.0|>=1.12.155,<1.13.0|>=1.12.156,<1.13.0|>=1.12.157,<1.13.0|>=1.12.158,<1.13.0|>=1.12.159,<1.13.0|>=1.12.160,<1.13.0|>=1.12.161,<1.13.0|>=1.12.162,<1.13.0|>=1.12.163,<1.13.0|>=1.12.164,<1.13.0|>=1.12.165,<1.13.0|>=1.12.166,<1.13.0|>=1.12.167,<1.13.0|>=1.12.168,<1.13.0|>=1.12.169,<1.13.0|>=1.12.170,<1.13.0|>=1.12.171,<1.13.0|>=1.12.172,<1.13.0|>=1.12.173,<1.13.0|>=1.12.174,<1.13.0|>=1.12.175,<1.13.0|>=1.12.176,<1.13.0|>=1.12.177,<1.13.0|>=1.12.178,<1.13.0|>=1.12.179,<1.13.0|>=1.12.180,<1.13.0|>=1.12.181,<1.13.0|>=1.12.182,<1.13.0|>=1.12.183,<1.13.0|>=1.12.184,<1.13.0|>=1.12.185,<1.13.0|>=1.12.186,<1.13.0|>=1.12.187,<1.13.0|>=1.12.188,<1.13.0|>=1.12.189,<1.13.0|>=1.12.190,<1.13.0|>=1.12.191,<1.13.0|>=1.12.192,<1.13.0|>=1.12.193,<1.13.0|>=1.12.194,<1.13.0|>=1.12.195,<1.13.0|>=1.12.196,<1.13.0|>=1.12.197,<1.13.0|>=1.12.198,<1.13.0|>=1.12.199,<1.13.0|>=1.12.200,<1.13.0|>=1.12.201,<1.13.0|>=1.12.202,<1.13.0|>=1.12.203,<1.13.0|>=1.12.204,<1.13.0|>=1.12.205,<1.13.0|>=1.12.206,<1.13.0|>=1.12.207,<1.13.0|>=1.12.208,<1.13.0|>=1.12.209,<1.13.0|>=1.12.210,<1.13.0|>=1.12.211,<1.13.0|>=1.12.212,<1.13.0|>=1.12.213,<1.13.0|>=1.12.214,<1.13.0|>=1.12.215,<1.13.0|>=1.12.216,<1.13.0|>=1.12.217,<1.13.0|>=1.12.218,<1.13.0|>=1.12.219,<1.13.0|>=1.12.220,<1.13.0|>=1.12.221,<1.13.0|>=1.12.222,<1.13.0|>=1.12.223,<1.13.0|>=1.12.224,<1.13.0|>=1.12.225,<1.13.0|>=1.12.226,<1.13.0|>=1.12.227,<1.13.0|>=1.

12.228,<1.13.0|>=1.12.229,<1.13.0|>=1.12.230,<1.13.0|>=1.12.231,<1.13.0|>=1.12.232,<1.13.0|>=1.12.233,
 <1.13.0|>=1.12.234,<1.13.0|>=1.12.235,<1.13.0|>=1.12.236,<1.13.0|>=1.12.237,<1.13.0|>=1.12.238,<1.13.
 0|>=1.12.239,<1.13.0|>=1.12.240,<1.13.0|>=1.12.241,<1.13.0|>=1.12.242,<1.13.0|>=1.12.243,<1.13.0|>=1.
 12.244,<1.13.0|>=1.12.245,<1.13.0|>=1.12.246,<1.13.0|>=1.12.247,<1.13.0|>=1.12.248,<1.13.0|>=1.12.249,
 <1.13.0|>=1.12.250,<1.13.0|>=1.12.251,<1.13.0|>=1.12.252,<1.13.0|>=1.12.253,<1.13.0|>=1.13.0,<1.14.0|>
 =1.13.1,<1.14.0|>=1.13.10,<1.14.0|>=1.13.11,<1.14.0|>=1.13.12,<1.14.0|>=1.13.13,<1.14.0|>=1.13.14,<1.1
 4.0|>=1.13.15,<1.14.0|>=1.13.16,<1.14.0|>=1.13.17,<1.14.0|>=1.13.18,<1.14.0|>=1.13.19,<1.14.0|>=1.13.2
 0,<1.14.0|>=1.13.21,<1.14.0|>=1.13.22,<1.14.0|>=1.13.23,<1.14.0|>=1.13.24,<1.14.0|>=1.13.25,<1.14.0|>=
 1.13.26,<1.14.0|>=1.13.27,<1.14.0|>=1.13.28,<1.14.0|>=1.13.29,<1.14.0|>=1.13.30,<1.14.0|>=1.13.31,<1.1
 4.0|>=1.13.32,<1.14.0|>=1.13.33,<1.14.0|>=1.13.34,<1.14.0|>=1.13.35,<1.14.0|>=1.13.36,<1.14.0|>=1.13.3
 7,<1.14.0|>=1.13.38,<1.14.0|>=1.13.39,<1.14.0|>=1.13.40,<1.14.0|>=1.13.41,<1.14.0|>=1.13.42,<1.14.0|>=
 1.13.43,<1.14.0|>=1.13.44,<1.14.0|>=1.13.45,<1.14.0|>=1.13.46,<1.14.0|>=1.13.47,<1.14.0|>=1.13.48,<1.1
 4.0|>=1.13.49,<1.14.0|>=1.13.50,<1.14.0|>=1.14.0,<1.15.0|>=1.14.1,<1.15.0|>=1.14.10,<1.15.0|>=1.14.11,<
 1.15.0|>=1.14.12,<1.15.0|>=1.14.13,<1.15.0|>=1.14.14,<1.15.0|>=1.14.15,<1.15.0|>=1.14.16,<1.15.0|>=1.1
 4.17,<1.15.0|>=1.15.0,<1.16.0|>=1.15.1,<1.16.0|>=1.15.10,<1.16.0|>=1.15.11,<1.16.0|>=1.15.12,<1.16.0|>=
 1.15.13,<1.16.0|>=1.15.14,<1.16.0|>=1.15.15,<1.16.0|>=1.15.16,<1.16.0|>=1.15.17,<1.16.0|>=1.15.18,<1.1
 6.0|>=1.15.19,<1.16.0|>=1.15.20,<1.16.0|>=1.15.21,<1.16.0|>=1.15.22,<1.16.0|>=1.15.23,<1.16.0|>=1.15.2
 4,<1.16.0|>=1.15.25,<1.16.0|>=1.15.26,<1.16.0|>=1.15.27,<1.16.0|>=1.15.28,<1.16.0|>=1.15.29,<1.16.0|>=
 1.15.30,<1.16.0|>=1.15.31,<1.16.0|>=1.15.32,<1.16.0|>=1.15.33,<1.16.0|>=1.15.34,<1.16.0|>=1.15.35,<1.1
 6.0|>=1.15.36,<1.16.0|>=1.15.37,<1.16.0|>=1.15.38,<1.16.0|>=1.15.39,<1.16.0|>=1.15.40,<1.16.0|>=1.15.4
 1,<1.16.0|>=1.15.42,<1.16.0|>=1.15.43,<1.16.0|>=1.15.44,<1.16.0|>=1.15.45,<1.16.0|>=1.15.46,<1.16.0|>=
 1.15.47,<1.16.0|>=1.15.48,<1.16.0|>=1.15.49,<1.16.0|>=1.16.0,<1.17.0|>=1.16.1,<1.17.0|>=1.16.10,<1.17.0
 |>=1.16.11,<1.17.0|>=1.16.12,<1.17.0|>=1.16.13,<1.17.0|>=1.16.14,<1.17.0|>=1.16.15,<1.17.0|>=1.16.16,<
 1.17.0|>=1.16.17,<1.17.0|>=1.16.18,<1.17.0|>=1.16.19,<1.17.0|>=1.16.20,<1.17.0|>=1.16.21,<1.17.0|>=1.1
 6.22,<1.17.0|>=1.16.23,<1.17.0|>=1.16.24,<1.17.0|>=1.16.25,<1.17.0|>=1.16.26,<1.17.0|>=1.17.0,<1.18.0|>
 =1.17.1,<1.18.0|>=1.17.10,<1.18.0|>=1.17.11,<1.18.0|>=1.17.12,<1.18.0|>=1.17.13,<1.18.0|>=1.17.14,<1.1
 8.0|>=1.17.15,<1.18.0|>=1.17.16,<1.18.0|>=1.17.17,<1.18.0|>=1.17.18,<1.18.0|>=1.17.19,<1.18.0|>=1.17.2
 0,<1.18.0|>=1.17.21,<1.18.0|>=1.17.22,<1.18.0|>=1.17.23,<1.18.0|>=1.17.24,<1.18.0|>=1.17.25,<1.18.0|>=
 1.17.26,<1.18.0|>=1.17.27,<1.18.0|>=1.17.28,<1.18.0|>=1.17.29,<1.18.0|>=1.17.30,<1.18.0|>=1.17.31,<1.1
 8.0|>=1.17.32,<1.18.0|>=1.17.33,<1.18.0|>=1.17.34,<1.18.0|>=1.17.35,<1.18.0|>=1.17.36,<1.18.0|>=1.17.3
 7,<1.18.0|>=1.17.38,<1.18.0|>=1.17.39,<1.18.0|>=1.17.40,<1.18.0|>=1.17.41,<1.18.0|>=1.17.42,<1.18.0|>=
 1.17.43,<1.18.0|>=1.17.44,<1.18.0|>=1.17.45,<1.18.0|>=1.17.46,<1.18.0|>=1.17.47,<1.18.0|>=1.17.48,<1.1
 8.0|>=1.17.49,<1.18.0|>=1.17.50,<1.18.0|>=1.17.51,<1.18.0|>=1.17.52,<1.18.0|>=1.17.53,<1.18.0|>=1.17.5
 4,<1.18.0|>=1.17.55,<1.18.0|>=1.17.56,<1.18.0|>=1.17.57,<1.18.0|>=1.17.58,<1.18.0|>=1.17.59,<1.18.0|>=
 1.17.60,<1.18.0|>=1.17.61,<1.18.0|>=1.17.62,<1.18.0|>=1.17.63,<1.18.0|>=1.18.0,<1.19.0|>=1.18.1,<1.19.0
 |>=1.18.10,<1.19.0|>=1.18.11,<1.19.0|>=1.18.12,<1.19.0|>=1.18.13,<1.19.0|>=1.18.14,<1.19.0|>=1.18.15,<
 1.19.0|>=1.18.16,<1.19.0|>=1.18.17,<1.19.0|>=1.18.18,<1.19.0|>=1.19.0,<1.20.0|>=1.19.1,<1.20.0|>=1.19.1
 0,<1.20.0|>=1.19.11,<1.20.0|>=1.19.12,<1.20.0|>=1.19.13,<1.20.0|>=1.19.14,<1.20.0|>=1.19.15,<1.20.0|>=
 1.19.16,<1.20.0|>=1.19.17,<1.20.0|>=1.19.18,<1.20.0|>=1.19.19,<1.20.0|>=1.19.20,<1.20.0|>=1.19.21,<1.2
 0.0|>=1.19.22,<1.20.0|>=1.19.23,<1.20.0|>=1.19.24,<1.20.0|>=1.19.25,<1.20.0|>=1.19.26,<1.20.0|>=1.19.2
 7,<1.20.0|>=1.19.28,<1.20.0|>=1.19.29,<1.20.0|>=1.19.30,<1.20.0|>=1.19.31,<1.20.0|>=1.19.32,<1.20.0|>=
 1.19.33,<1.20.0|>=1.19.34,<1.20.0|>=1.19.35,<1.20.0|>=1.19.36,<1.20.0|>=1.19.37,<1.20.0|>=1.19.38,<1.2
 0.0|>=1.19.39,<1.20.0|>=1.19.40,<1.20.0|>=1.19.41,<1.20.0|>=1.19.42,<1.20.0|>=1.19.43,<1.20.0|>=1.19.4
 4,<1.20.0|>=1.19.45,<1.20.0|>=1.19.46,<1.20.0|>=1.19.47,<1.20.0|>=1.19.48,<1.20.0|>=1.19.49,<1.20.0|>=
 1.19.50,<1.20.0|>=1.19.51,<1.20.0|>=1.19.52,<1.20.0|>=1.19.53,<1.20.0|>=1.19.54,<1.20.0|>=1.19.55,<1.2
 0.0|>=1.19.56,<1.20.0|>=1.19.57,<1.20.0|>=1.19.9,<1.20.0|>=1.19.8,<1.20.0|>=1.19.7,<1.20.0|>=1.19.6,<1.
 20.0|>=1.19.5,<1.20.0|>=1.19.4,<1.20.0|>=1.19.3,<1.20.0|>=1.19.2,<1.20.0|>=1.18.9,<1.19.0|>=1.18.8,<1.1
 9.0|>=1.18.7,<1.19.0|>=1.18.6,<1.19.0|>=1.18.5,<1.19.0|>=1.18.4,<1.19.0|>=1.18.3,<1.19.0|>=1.18.2,<1.19.
 0|>=1.17.9,<1.18.0|>=1.17.8,<1.18.0|>=1.17.7,<1.18.0|>=1.17.6,<1.18.0|>=1.17.5,<1.18.0|>=1.17.4,<1.18.0|
 >=1.17.3,<1.18.0|>=1.17.2,<1.18.0|>=1.16.9,<1.17.0|>=1.16.8,<1.17.0|>=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|>=1.1
 4.3,<1.15.0|>=1.14.2,<1.15.0|>=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.

```
ibm-wsrt-py37main-main -> joblib==0.16.0[build=*]
```

Package brotli conflicts for:

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

Package krb5 conflicts for:

ibm-wsrt-py37main-main -> krb5==1.17.1[build=*]
freedts -> 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,<1.18.0a0']

Package prometheus_client conflicts for:

ibm-wsrt-py37main-main -> prometheus_client==0.8.0[build=*]
notebook -> prometheus_client

Package pygments conflicts for:

ibm-wsrt-py37main-main -> pygments==2.6.1[build=*]
nbconvert -> pygments[version='>=2.4.1']
ipython -> pygments
prompt-toolkit -> pygments

Package ipython conflicts for:

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

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 libtiff conflicts for:

lcms2 -> libtiff[version='>=4.0.10,<5.0a0|>=4.1.0,<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']
qt -> libtiff[version='4.0.*|>=4.0.10,<5.0a0']
ibm-wsrt-py37main-main -> libtiff==4.1.0[build=*]

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 libedit conflicts for:

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']
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 libgfortran-ng conflicts for:

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

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 libglib conflicts for:

```
qt -> libglib[version='>=2.66.4,<3.0a0']
glib -> libglib[version='2.64.6|2.66.1|2.66.2|2.66.2|2.66.3|2.66.3|2.66.4',build='h0dae87d_1|hbe7bbb4_0|h1f3bc88_1|h9edacf_0|h748fe8e_1|h9edacf_1|h164308a_1|hdb14261_1|hdb14261_0|h748fe8e_0|h164308a_0|hbe7bbb4_0|h0dae87d_0|h0dae87d_0']
dbus -> libglib[version='>=2.64.6,<3.0a0']
gstreamer -> libglib[version='>=2.64.6,<3.0a0|>=2.66.4,<3.0a0']
gst-plugins-base -> libglib[version='>=2.64.6,<3.0a0|>=2.66.4,<3.0a0']
```

Package regex conflicts for:

```
ibm-wsrt-py37main-main -> regex==2020.6.8[build=*]
nltk -> regex
```

Package intel-openmp conflicts for:

```
ibm-wsrt-py37main-main -> intel-openmp==2020.1[build=*]
mkl -> intel-openmp
```

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 pyasn1 conflicts for:

```
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']
ibm-wsrt-py37main-main -> pyasn1==0.4.8[build=*]
```

Package pyrsistent conflicts for:

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

Package protobuf conflicts for:

```
grpcio -> protobuf[version='>=3.5.0']
ibm-wsrt-py37main-main -> protobuf==3.12.3[build=*]
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']
tensorflow-estimator -> protobuf[version='>=3.6.1']
tensorboard -> protobuf[version='>=3.3.0|>=3.4.0|>=3.6.0|>=3.8.0|>=3.6.1']
```

Package multidict conflicts for:

```
ibm-wsrt-py37main-main -> multidict==4.7.6[build=*]
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']
```

Package pip conflicts for:

```
python=3.7 -> pip
ibm-wsrt-py37main-main -> pip==20.1.1[build=*]
```

Package pyasn1-modules conflicts for:

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

Package typing conflicts for:

```
typing_extensions -> typing[version='>=3.6.2|>=3.7.4']
pytorch -> typing
```

Package statsmodels conflicts for:

```
seaborn -> statsmodels[version='>=0.5.0|>=0.8.0']
ibm-wsrt-py37main-main -> statsmodels==0.11.1[build=*]
```

Package nbconvert conflicts for:

```
notebook -> nbconvert[version='<6.0']
ibm-wsrt-py37main-main -> nbconvert==5.6.1[build=*]
```

Package decorator conflicts for:

```
networkx -> decorator[version='>=3.4.0|>=4.3.0|>=4.1.0']
```

```
ibm-wsrt-py37main-main -> decorator==4.4.2[build=*]
```

traitlets -> decorator

```
plotly -> decorator[version='>=4.0.6']
```

ipython -> decorator

Package libblas conflicts for:

```
scipy -> libblas[version='>=3.8.0,<4.0a0']
```

```
pytorch -> libblas[version='*>=3.9.0,<4.0a0|>=3.8.0,<4.0a0',build='*_mkl]
```

[illegible]

```
numpy -> libblas[version='>=3.8.0,<4.0a0']
```

Package imageio conflicts for:

```
ibm-wsrt-py37main-main -> imageio==2.9.0[build=*]
```

```
scikit-image -> imageio[version='>=2.1.0|>=2.3.0']
```

Package html5lib conflicts for:

```
ibm-wsrt-py37main-main -> html5lib==1.1.0[build=*]
```

```
bleach -> html5lib[version='>=0.999,!>=0.9999,!>=0.99999,<0.99999999|>=0.99999999|>=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 testpath conflicts for:

nbconvert -> testpath

```
ibm-wsrt-py37main-main -> testpath==0.4.4[build=*]
```

Package jedi conflicts for:

```
ipython -> jedi[version='>=0.10|>=0.10,<0.18|>=0.16']
```

```
ibm-wsrt-py37main-main -> jedi==0.17.1[build=*]
```

Package ipywidgets conflicts for:

```
arcgis=1.6.0 -> ipywidgets[version='>=7']
```

```
ibm-wsrt-py37main-main -> ipywidgets==7.5.1[build=*]
```

Package mkl fft conflicts for:

```
numpy -> mkl fft[version='>=1.0.4|>=1.0.6,<2.0a0']
```

```
ibm-wsrt-py37main-main -> mkl fft==1.1.0[build=*]
```

Package funtools32 conflicts for:

jsonschema -> functools32

```
tensorflow-base -> functools32[version='>=3.2.3.2']
```

```
matplotlib-base -> functools32
```

matplotlib -> functools32

Package send2trash conflicts for:

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

```
notebook -> send2trash[version='>=1.5.0']
```

Package h5py conflicts for:

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

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 _openmp_mutex conflicts for:

```
libgcc-ng -> _openmp_mutex[version='>=4.5']
blas -> _openmp_mutex[version='*|>=4.5',build=* _llvm]
pytorch -> _openmp_mutex[version='>=4.5']
mkl -> _openmp_mutex[version='*|>=4.5',build=* _llvm]
```

Package wheel conflicts for:

```
tensorboard -> wheel[version='>=0.26']
ibm-wsrt-py37main-main -> wheel==0.34.2[build=*]
pip -> wheel
```

Package ld_impl_linux-64 conflicts for:

```
python=3.7 -> ld_impl_linux-64[version='>=2.34']
ibm-wsrt-py37main-main -> ld_impl_linux-64==2.33.1[build=*]
```

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 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']
numexpr -> 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']
numpy -> libopenblas[version='>=0.2.20,<0.2.21.0a0|>=0.3.2,<0.3.3.0a0|>=0.3.3,<1.0a0']
```

Package more-itertools conflicts for:

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

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']
ibm-wsrt-py37main-main -> expat==2.2.9[build=*]
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']
```

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']
ibm-wsrt-py37main-main -> dbus==1.13.16[build=*]
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']
```

Package markdown conflicts for:

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

Package jsonschema conflicts for:

```
jupyterlab_server -> jsonschema[version='>=3.0.1']
nbformat -> jsonschema[version='>=2.0,!>=2.5.0|>=2.4,!>=2.5.0']
```

ibm-wsrt-py37main-main -> jsonschema==3.2.0[build=*]

Package gast conflicts for:

tensorflow-estimator -> gast[version='>=0.2.0']

ibm-wsrt-py37main-main -> gast==0.2.2[build=*]

tensorflow-base -> gast[version='>=0.2.0|>=0.3.3,<0.3.4.0a0|>=0.2.2,<0.2.3.0a0']

Package kiwisolver conflicts for:

matplotlib-base -> kiwisolver[version='>=1.0.1']

matplotlib -> kiwisolver

ibm-wsrt-py37main-main -> kiwisolver==1.2.0[build=*]

Package psocks conflicts for:

ibm-wsrt-py37main-main -> psocks==1.7.1[build=*]

urllib3 -> psocks[version='>=1.5.6,<2.0,!1.5.7']

Package secretstorage conflicts for:

ibm-wsrt-py37main-main -> secretstorage==3.1.0[build=*]

keyring -> secretstorage[version='>=3|>=3.2']

Package ncurses conflicts for:

ibm-wsrt-py37main-main -> ncurses==6.2[build=*]

python=3.7 -> ncurses[version='>=6.1,<6.3.0a0|>=6.2,<6.3.0a0|>=6.2,<7.0a0|>=6.1,<7.0a0']

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.*']

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|>=6.1,<7.0a0|>=6.0,<7.0a0|6.0.*']

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 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 mkl_random conflicts for:

ibm-wsrt-py37main-main -> mkl_random==1.1.1[build=*]

numpy -> mkl_random[version='>=1.0.2,<2.0a0']

Package olefile conflicts for:

ibm-wsrt-py37main-main -> olefile==0.46[build=*]

pillow -> olefile

Package mpich conflicts for:

hdf5 -> mpich[version='>=3.2,<3.3.0a0|>=3.3,<4.0.0a0']

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']

Package json5 conflicts for:

jupyterlab_server -> json5

ibm-wsrt-py37main-main -> json5==0.9.5[build=*]

Package funcsigs conflicts for:

mock -> funcsigs

pytest -> funcsigs[version='>=1.0']

Package prompt-toolkit conflicts for:

ipython -> prompt-toolkit[version='!=3.0.0,!3.0.1,<3.1.0,>=2.0.0']

ibm-wsrt-py37main-main -> prompt-toolkit==3.0.5[build=*]

Package backports.functools_lru_cache conflicts for:

```
matplotlib-base -> backports.functools_lru_cache
soupsieve -> backports.functools_lru_cache
wcwidth -> backports.functools_lru_cache
matplotlib -> backports.functools_lru_cache
```

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 bleach conflicts for:

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

Package typing-extensions conflicts for:

```
aiohttp -> typing-extensions[version='>=3.6.5']
yarl -> typing-extensions[version='>=3.7.4']
```

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 urllib3 conflicts for:

```
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']
ibm-wsrt-py37main-main -> urllib3==1.25.9[build=*]
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 oauthlib conflicts for:

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

Note that strict channel priority may have removed packages required for satisfiability.

Folium installed

Libraries imported.

```
In [287]: CLIENT_ID = 'SQWSTKY34ZXC0BFCW1JLATHAH1XZAQCAIUUKXFMVKDGRGLLPT' # your Foursquare ID
CLIENT_SECRET = 'JUUFLOEJDRMUJXE1ZNLNT5ETD2C0NPU1UNGBZLCDG0PYCDXJ' # your Foursquare Secret
VERSION = '20180604'
LIMIT = 30
print('Your credentails:')
print('CLIENT_ID: ' + CLIENT_ID)
print('CLIENT_SECRET: ' + CLIENT_SECRET)
```

Your credentails:

```
CLIENT_ID: SQWSTKY34ZXC0BFCW1JLATHAH1XZAQCAIUUKXFMVKDGRGLLPT
CLIENT_SECRET: JUUFLOEJDRMUJXE1ZNLNT5ETD2C0NPU1UNGBZLCDG0PYCDXJ
```

```
In [350]: address = 'Plaça Urquinaona, Barcelona, SP'
geolocator = Nominatim(user_agent="foursquare_agent")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print(latitude, longitude)
```

41.3893636 2.1734278

```
In [351]: search_query = 'restaurants'
```



```
radius = 2000
print(search_query + ' .... OK!')
```

restaurants OK!

```
In [352]: url = 'https://api.foursquare.com/v2/venues/search?client_id={}&client_secret={}&ll={},{&v={}&query={}&radius={}&limit={}'.format(CLIENT_ID, CLIENT_SECRET, latitude, longitude, VERSION, search_query, radius, LIMIT)
url
```

```
Out[352]: 'https://api.foursquare.com/v2/venues/search?client_id=SQWSTKY34ZXC0BFCW1JLATHAH1XZAQCAIUKXFMVKDGRGLLPT&client_secret=JUUFLOEJDRMUJXE1ZNLNT5ETD2C0NPU1UNGBZLCDG0PYCDXJ&ll=41.3893636,2.1734278&v=20180604&query=restaurants&radius=2000&limit=30'
```

```
In [353]: import requests
results=requests.get(url).json()
results
```

```
Out[353]: {'meta': {'code': 200, 'requestId': '6009c3d0fbbe710cee34df1f'},
'response': {'venues': [{'id': '51b33230498ebe9d3e8b5f9a',
'name': 'più restaurants',
'location': {'address': 'Gran Via, 633',
'lat': 41.391630393457675,
'lng': 2.1708424436335454,
'labeledLatLngs': [{'label': 'display',
'lat': 41.391630393457675,
'lng': 2.1708424436335454}],
'distance': 332,
'postalCode': '08010',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Gran Via, 633',
'08010 Barcelona Cataluña',
'España']},
'categories': [{'id': '4bf58dd8d48988d110941735',
'name': 'Italian Restaurant',
'pluralName': 'Italian Restaurants',
'shortName': 'Italian',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/italian_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4fba3d77e4b0c2549a6ef43c',
'name': 'cacheiro restaurants',
'location': {'address': 'Rambla de catalunya, 2',
'lat': 41.387459489432295,
'lng': 2.168095590907808,
'labeledLatLngs': [{'label': 'display',
'lat': 41.387459489432295,
'lng': 2.168095590907808}],
'distance': 493,
'postalCode': '08007',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Rambla de catalunya, 2',
'08007 Barcelona Cataluña',
```

```
'España']},
'categories': [{ 'id': '4bf58dd8d48988d124941735',
'name': 'Office',
'pluralName': 'Offices',
'shortName': 'Office',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/default_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{ 'id': '4c319864452620a1f7d9200f',
'name': 'Restaurant Santa Anna',
'location': { 'address': 'C. Santa Anna, 8',
'lat': 41.38509625436647,
'lng': 2.171227185410136,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.38509625436647,
'lng': 2.171227185410136 } ],
'distance': 509,
'cc': 'ES',
'neighborhood': 'Готический квартал',
'city': 'Aguilar de Segarra',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': [ 'C. Santa Anna, 8', 'Barcelona Cataluña', 'España' ] },
'categories': [ { 'id': '4bf58dd8d48988d14d941735',
'name': 'Paella Restaurant',
'pluralName': 'Paella Restaurants',
'shortName': 'Paella',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/paella_',
'suffix': '.png'},
'primary': True } ],
'referralId': 'v-1611252688',
'hasPerk': False},
{ 'id': '4bba3a64cf2fc9b69f4ea102',
'name': 'Restaurant Sant Jaume',
'location': { 'lat': 41.383399,
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'labeledLatLngs': [ { 'label': 'display',
'lat': 41.383399,
'lng': 2.177881 } ],
'distance': 761,
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'country': 'España',
'formattedAddress': [ 'España' ] },
'categories': [],
'referralId': 'v-1611252688',
'hasPerk': False},
{ 'id': '4c49f53b20ab1b8d79437a17',
'name': 'Restaurant Santamaria',
'location': { 'lat': 41.387021472589204,
'lng': 2.1820365503383004,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.387021472589204,
'lng': 2.1820365503383004 } ],
'distance': 764,
'cc': 'ES',
'country': 'España',
'formattedAddress': [ 'España' ] },
'categories': [ { 'id': '4bf58dd8d48988d1db931735',
'name': 'Tapas Restaurant',
```

```

    'pluralName': 'Tapas Restaurants',
    'shortName': 'Tapas',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/tapas_',
      'suffix': '.png'},
    'primary': True}],
    'referralId': 'v-1611252688',
    'hasPerk': False},
    {'id': '4f857542e4b0efa7559bfec2',
    'name': 'Restaurant Selenus',
    'location': {'lat': 41.383012383034355,
    'lng': 2.167313489421665,
    'labeledLatLngs': [{'label': 'display',
    'lat': 41.383012383034355,
    'lng': 2.167313489421665}],
    'distance': 872,
    'cc': 'ES',
    'country': 'España',
    'formattedAddress': ['España']},
    'categories': [{'id': '4bf58dd8d48988d1c4941735',
    'name': 'Restaurant',
    'pluralName': 'Restaurants',
    'shortName': 'Restaurant',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
    'suffix': '.png'},
    'primary': True}],
    'referralId': 'v-1611252688',
    'hasPerk': False},
    {'id': '4d9f6100e357a143db29d974',
    'name': 'Restaurant Santa Teresa',
    'location': {'address': 'Plaça Tetuán 35',
    'crossStreet': 'Roger de Flor',
    'lat': 41.395813467113896,
    'lng': 2.17628002166748,
    'labeledLatLngs': [{'label': 'display',
    'lat': 41.395813467113896,
    'lng': 2.17628002166748}],
    'distance': 756,
    'postalCode': '08013',
    'cc': 'ES',
    'city': 'Barcelona',
    'state': 'Cataluña',
    'country': 'España',
    'formattedAddress': ['Plaça Tetuán 35 (Roger de Flor)',
    '08013 Barcelona Cataluña',
    'España']},
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    'name': 'Spanish Restaurant',
    'pluralName': 'Spanish Restaurants',
    'shortName': 'Spanish',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/spanish_',
    'suffix': '.png'},
    'primary': True}],
    'referralId': 'v-1611252688',
    'hasPerk': False},
    {'id': '5c5dc22edff815002c5ed716',
    'name': 'Restaurant SOLC',
    'location': {'address': 'Passeig de Gràcia 68, 1a Planta',
    'crossStreet': 'Carrer de València',
    'lat': 41.393462,
    'lng': 2.163973,
    'labeledLatLngs': [{'label': 'display',

```

```
'lat': 41.393462,
'lng': 2.163973}],
'distance': 911,
'postalCode': '08007',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Passeig de Gràcia 68, 1a Planta (Carrer de València)',
'08007 Barcelona Cataluña',
'Espana']],
'categories': [{ 'id': '4bf58dd8d48988d1c0941735',
'name': 'Mediterranean Restaurant',
'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4ccc1897ba79a1cdcc9938cb',
'name': 'Restaurant Sant Joan',
'location': { 'address': 'Passeig Sant Joan, 65',
'crossStreet': 'Arago',
'lat': 41.39737472012995,
'lng': 2.1721385095633066,
'labeledLatLngs': [{ 'label': 'display',
'lat': 41.39737472012995,
'lng': 2.1721385095633066}],
'distance': 898,
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Passeig Sant Joan, 65 (Arago)',
'Barcelona Cataluña',
'Espana']],
'categories': [{ 'id': '4bf58dd8d48988d1c0941735',
'name': 'Mediterranean Restaurant',
'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4ca387905720b1f7cf9932ef',
'name': 'Restaurant Sandvitxeria Elias & Zakarias',
'location': { 'address': 'Calle del Carme, 69',
'lat': 41.38061173714241,
'lng': 2.1676541577232076,
'labeledLatLngs': [{ 'label': 'display',
'lat': 41.38061173714241,
'lng': 2.1676541577232076}],
'distance': 1087,
'cc': 'ES',
'city': 'La Barceloneta',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Calle del Carme, 69',
'la Barceloneta Cataluña',
```

```

    'España']},
'categories': [{ 'id': '4bf58dd8d48988d1c3941735',
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'pluralName': 'Moroccan Restaurants',
'shortName': 'Moroccan',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/moroccan_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{ 'id': '5c51a64cb9a5a8002cf0068d',
'name': 'Restaurant Synatras',
'location': { 'address': 'carrer Aribau',
'crossStreet': 'córcega',
'lat': 41.3895588034001,
'lng': 2.157751321792602,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.3895588034001,
'lng': 2.157751321792602}],
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'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['carrer Aribau (córcega)',
'08036 Barcelona Cataluña',
'España']},
'categories': [{ 'id': '4bf58dd8d48988d1c0941735',
'name': 'Mediterranean Restaurant',
'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{ 'id': '4fc226f0e4b014a2d6ede62f',
'name': 'Restaurant self-service del Zoo de Barcelona',
'location': { 'lat': 41.385475158691406,
'lng': 2.1890947818756104,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.385475158691406,
'lng': 2.1890947818756104}],
'distance': 1378,
'cc': 'ES',
'country': 'España',
'formattedAddress': ['España']},
'categories': [{ 'id': '4bf58dd8d48988d1c0941735',
'name': 'Mediterranean Restaurant',
'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{ 'id': '4c81533b2f1c236a05c52e43',
'name': 'Restaurant Siempreviva',
'location': { 'address': 'Pg. Joan de Borbó, 7',
'lat': 41.38086702168688,

```

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'lng': 2.1869623032954992,
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  'lng': 2.1869623032954992}],
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'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Pg. Joan de Borbó, 7',
  '08003 Barcelona Cataluña',
  'España']],
'categories': [{'id': '4bf58dd8d48988d1ce941735',
  'name': 'Seafood Restaurant',
  'pluralName': 'Seafood Restaurants',
  'shortName': 'Seafood',
  'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/seafood_',
    'suffix': '.png'},
  'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '5b1054e8da2e00002cf56188',
'name': 'Restaurant Synatras',
'location': {'address': 'Aribau 152',
  'crossStreet': 'Entre Rosellón y Corcega',
  'lat': 41.392149,
  'lng': 2.15458,
  'labeledLatLngs': [{'label': 'display',
    'lat': 41.392149,
    'lng': 2.15458}],
  'distance': 1604,
  'postalCode': '08036',
  'cc': 'ES',
  'city': 'Barcelona',
  'state': 'Cataluña',
  'country': 'España',
  'formattedAddress': ['Aribau 152 (Entre Rosellón y Corcega)',
    '08036 Barcelona Cataluña',
    'España']],
  'categories': [{'id': '4bf58dd8d48988d1db931735',
    'name': 'Tapas Restaurant',
    'pluralName': 'Tapas Restaurants',
    'shortName': 'Tapas',
    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/tapas_',
      'suffix': '.png'},
    'primary': True}],
  'referralId': 'v-1611252688',
  'hasPerk': False},
{'id': '5e10facd08517b0008baee01',
'name': 'Subway',
'location': {'address': 'Consell de Cent 355, Bajos-Derecha',
  'lat': 41.39191481712517,
  'lng': 2.1664299538521625,
  'labeledLatLngs': [{'label': 'display',
    'lat': 41.39191481712517,
    'lng': 2.1664299538521625}],
  'distance': 649,
  'postalCode': '08007',
  'cc': 'ES',
  'city': 'Barcelona',

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```
'state': 'BA',
'country': 'España',
'formattedAddress': ['Consell de Cent 355, Bajos-Derecha',
'08007 Barcelona BA',
'España']],
'categories': [{'id': '4bf58dd8d48988d1c5941735',
'name': 'Sandwich Place',
'pluralName': 'Sandwich Places',
'shortName': 'Sandwiches',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/deli_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '53a9095f498ecad91b203707',
'name': 'Restaurant Sergi de Meià',
'location': {'address': 'C. Aribau, 106',
'crossStreet': 'Mallorca',
'lat': 41.390550056241544,
'lng': 2.157047679430999,
'labeledLatLngs': [{'label': 'display',
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'lng': 2.157047679430999}],
'distance': 1374,
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'city': 'Barcelona',
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'country': 'España',
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'08036 Barcelona Cataluña',
'España']],
'categories': [{'id': '4bf58dd8d48988d1c0941735',
'name': 'Mediterranean Restaurant',
'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '5b5320bd646e3800395e07a4',
'name': 'Restaurant Saigon',
'location': {'lat': 41.385002,
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'labeledLatLngs': [{'label': 'display',
'lat': 41.385002,
'lng': 2.1504323}],
'distance': 1980,
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'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['08029 Barcelona Cataluña', 'España']],
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'name': 'Asian Restaurant',
'pluralName': 'Asian Restaurants',
'shortName': 'Asian',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/asian_',
'suffix': '.png'},
```

```

    'primary': True}],
    'referralId': 'v-1611252688',
    'hasPerk': False},
    {'id': '51308acfe4b0316003764653',
     'name': 'Restaurant Sarment',
     'location': {'address': 'Corsega 598',
                  'lat': 41.4090461730957,
                  'lng': 2.1761529445648193,
                  'labeledLatLngs': [{'label': 'display',
                                       'lat': 41.4090461730957,
                                       'lng': 2.1761529445648193}]},
     'distance': 2202,
     'postalCode': '08025',
     'cc': 'ES',
     'city': 'Barcelona',
     'state': 'Cataluña',
     'country': 'España',
     'formattedAddress': ['Corsega 598',
                          '08025 Barcelona Cataluña',
                          'España']},
    'categories': [{'id': '4bf58dd8d48988d1c4941735',
                     'name': 'Restaurant',
                     'pluralName': 'Restaurants',
                     'shortName': 'Restaurant',
                     'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
                              'suffix': '.png'},
                     'primary': True}],
    'referralId': 'v-1611252688',
    'hasPerk': False},
    {'id': '4ca8691f14c337046a9dd33b',
     'name': 'Subway',
     'location': {'address': 'Plaza Sagrada Familia 17',
                  'lat': 41.402424160982235,
                  'lng': 2.1741622274183925,
                  'labeledLatLngs': [{'label': 'display',
                                       'lat': 41.402424160982235,
                                       'lng': 2.1741622274183925}]},
     'distance': 1455,
     'postalCode': '08013',
     'cc': 'ES',
     'city': 'Barcelona',
     'state': 'BA',
     'country': 'España',
     'formattedAddress': ['Plaza Sagrada Familia 17',
                          '08013 Barcelona BA',
                          'España']},
    'categories': [{'id': '4bf58dd8d48988d1c5941735',
                     'name': 'Sandwich Place',
                     'pluralName': 'Sandwich Places',
                     'shortName': 'Sandwiches',
                     'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/deli_',
                              'suffix': '.png'},
                     'primary': True}],
    'referralId': 'v-1611252688',
    'hasPerk': False},
    {'id': '5e10fcbc0ef3df00073c65fa',
     'name': 'Subway',
     'location': {'address': 'Moll D'Espanya 5, Cc Maremagnum, Local M1",
                  'lat': 41.37532951180886,
                  'lng': 2.1824727292683566,
                  'labeledLatLngs': [{'label': 'display',

```



```
'lat': 41.37532951180886,
'lng': 2.1824727292683566}],
'distance': 1735,
'postalCode': '08039',
'cc': 'ES',
'city': 'Barcelona',
'state': 'BA',
'country': 'España',
'formattedAddress': ["Moll D'Espanya 5, Cc Maremagnum, Local M1",
'08039 Barcelona BA',
'España']},
'categories': [{ 'id': '4bf58dd8d48988d1c5941735',
'name': 'Sandwich Place',
'pluralName': 'Sandwich Places',
'shortName': 'Sandwiches',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/deli_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '5d449fac3938ca00085dca0d',
'name': 'Bar Restaurant Shaxian',
'location': { 'address': 'Carrer de Nàpols, 95',
'lat': 41.394271,
'lng': 2.180752,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.394271,
'lng': 2.180752 } ],
'distance': 820,
'postalCode': '08013',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Carrer de Nàpols, 95',
'08013 Barcelona Cataluña',
'España']},
'categories': [{ 'id': '4bf58dd8d48988d145941735',
'name': 'Chinese Restaurant',
'pluralName': 'Chinese Restaurants',
'shortName': 'Chinese',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/asian_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4e7f279377c8da82acf11748',
'name': 'Dana restaurant siri',
'location': { 'address': 'Avinguda de Roma, 151',
'crossStreet': 'Casanovas',
'lat': 41.380766,
'lng': 2.16041,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.380766,
'lng': 2.16041 } ],
'distance': 1448,
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Avinguda de Roma, 151 (Casanovas)',
```

```

'Barcelona Cataluña',
'España']}},
'categories': [{ 'id': '4d4b7105d754a06374d81259',
'name': 'Food',
'pluralName': 'Food',
'shortName': 'Food',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4c6a9f33c946e21e5922ed8e',
'name': 'Bar Restaurant Sagrada Familia',
'location': { 'lat': 41.404885227467126,
'lng': 2.1706510795781493,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.404885227467126,
'lng': 2.1706510795781493 } ] },
'distance': 1743,
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': [ 'Barcelona Cataluña', 'España' ] },
'categories': [ { 'id': '4bf58dd8d48988d116941735',
'name': 'Bar',
'pluralName': 'Bars',
'shortName': 'Bar',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/nightlife/pub_',
'suffix': '.png'},
'primary': True } ] },
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4e061b3cd1640223a4942f31',
'name': 'Bar Restaurant Sandra',
'location': { 'address': 'Cartagena, 223',
'lat': 41.40654983199716,
'lng': 2.1805221117391125,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.40654983199716,
'lng': 2.1805221117391125 } ] },
'distance': 2002,
'cc': 'ES',
'country': 'España',
'formattedAddress': [ 'Cartagena, 223', 'España' ] },
'categories': [ { 'id': '4bf58dd8d48988d1db931735',
'name': 'Tapas Restaurant',
'pluralName': 'Tapas Restaurants',
'shortName': 'Tapas',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/tapas_',
'suffix': '.png'},
'primary': True } ] },
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '5219fe4211d24dc9cde1b282',
'name': 'Bar Restaurant Single',
'location': { 'lat': 41.40761184692383,
'lng': 2.161039352416992,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.40761184692383,
'lng': 2.161039352416992 } ] },

```

```

'distance': 2279,
'cc': 'ES',
'country': 'España',
'formattedAddress': ['España']],
'categories': [{ 'id': '4bf58dd8d48988d1c4941735',
'name': 'Restaurant',
'pluralName': 'Restaurants',
'shortName': 'Restaurant',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4c8f25c01992a1cd4994e3fb',
'name': 'Bar Restaurant Sort',
'location': { 'address': 'Carrer de Rocafort, 114',
'crossStreet': 'Carrer de Consell de Cent',
'lat': 41.38052989064503,
'lng': 2.1517163515090942,
'labeledLatLngs': [{ 'label': 'display',
'lat': 41.38052989064503,
'lng': 2.1517163515090942}],
'distance': 2062,
'postalCode': '08015',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Carrer de Rocafort, 114 (Carrer de Consell de Cent)',
'08015 Barcelona Cataluña',
'España']],
'categories': [{ 'id': '4bf58dd8d48988d1c4941735',
'name': 'Restaurant',
'pluralName': 'Restaurants',
'shortName': 'Restaurant',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4f1b343fe4b0c74ef1a5be11',
'name': 'Ugarit Restaurant Siria',
'location': { 'address': 'Calle de Bruniquer, 37, 08024 Barcelona',
'lat': 41.4050974899685,
'lng': 2.161349583955438,
'labeledLatLngs': [{ 'label': 'display',
'lat': 41.4050974899685,
'lng': 2.161349583955438}],
'distance': 2021,
'postalCode': '08024',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Calle de Bruniquer, 37, 08024 Barcelona',
'08024 Barcelona Cataluña',
'España']],
'categories': [{ 'id': '4bf58dd8d48988d10b941735',
'name': 'Falafel Restaurant',
'pluralName': 'Falafel Restaurants',
'shortName': 'Falafel',

```

```

    'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/falafel_',
    'suffix': '.png'},
    'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False},
{'id': '4d5c16026f6d6ea81f4e61ec',
'name': 'Bar Restaurant Sardenya',
'location': {'address': 'Sardenya 457',
'lat': 41.40885448885995,
'lng': 2.165958881378174,
'labeledLatLngs': [{'label': 'display',
'lat': 41.40885448885995,
'lng': 2.165958881378174}],
'distance': 2257,
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Sardenya 457', 'Barcelona Cataluña', 'España']},
'categories': [{'id': '4bf58dd8d48988d116941735',
'name': 'Bar',
'pluralName': 'Bars',
'shortName': 'Bar',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/nightlife/pub_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252688',
'hasPerk': False}]}}
```

```
In [354]: # assign relevant part of JSON to venues
venues = results['response']['venues']
# tranform venues into a dataframe
dataframeec = json_normalize(venues)
dataframeec.head()

/opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages/ipykernel/_
main__.py:4: FutureWarning: pandas.io.json.json_normalize is deprecated,
use pandas.json_normalize instead
```

Out[354]:

	id	name	categories	refe
0	51b33230498ebe9d3e8b5f9a	più restaurants	[{'id': '4bf58dd8d48988d110941735', 'name': 'Italian Restaurant', 'pluralName': 'Italian Restaurants', 'shortName': 'Italian', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/italian_', 'suffix': '.png'}, 'primary': True}]	161125
1	4fba3d77e4b0c2549a6ef43c	cacheiro restaurants	[{'id': '4bf58dd8d48988d124941735', 'name': 'Office', 'pluralName': 'Offices', 'shortName': 'Office', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/default_', 'suffix': '.png'}, 'primary': True}]	161125
2	4c319864452620a1f7d9200f	Restaurant Santa Anna	[{'id': '4bf58dd8d48988d14d941735', 'name': 'Paella Restaurant', 'pluralName': 'Paella Restaurants', 'shortName': 'Paella', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/paella_', 'suffix': '.png'}, 'primary': True}]	161125
3	4bba3a64cf2fc9b69f4ea102	Restaurant Sant Jaume		161125

4	4c49f53b20ab1b8d79437a17	Restaurant Santamaria	{'id': '4bf58dd8d48988d1db931735', 'name': 'Tapas Restaurant', 'pluralName': 'Tapas Restaurants', 'shortName': 'Tapas', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/tapas_', 'suffix': '.png'}, 'primary': True}}	161125
---	--------------------------	--------------------------	---	--------

```
In [355]: dataframec.shape
```

Out[355]: (28, 18)

```
In [356]: # keep only columns that include venue name, and anything that is associated with location
filtered_columns = ['name', 'categories'] + [col for col in dataframec.columns if col.startswith('location.')] + ['id']
dataframec_filtered = dataframec.loc[:, filtered_columns]

# 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']

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

# clean column names by keeping only last term
dataframec_filtered.columns = [column.split('.')[ -1] for column in dataframec_filtered.columns]

dataframec_filtered
```

Out[356]:

	name	categories	address	lat	lng	labeledLatLngs	distance
0	più restaurants	Italian Restaurant	Gran Via, 633	41.391630	2.170842	[{'label': 'display', 'lat': 41.391630393457675, 'lng': 2.1708424433635454}]	332
1	cacheiro restaurants	Office	Rambla de catalunya, 2	41.387459	2.168096	[{'label': 'display', 'lat': 41.387459489432295, 'lng': 2.168095590907808}]	493
2	Restaurant Santa Anna	Paella Restaurant	C. Santa Anna, 8	41.385096	2.171227	[{'label': 'display', 'lat': 41.38509625436647, 'lng': 2.171227185410136}]	509
3	Restaurant Sant Jaume	None	NaN	41.383399	2.177881	[{'label': 'display', 'lat': 41.383399, 'lng': 2.177881}]	761
	Restaurant	Tapas				[{'label': 'display', 'lat': 41.387021472589204,	

4	Santamaria	Restaurant	NaN	41.387021	2.182037	'Ing': 2.1820365503383004}}	764
5	Restaurant Selenus	Restaurant	NaN	41.383012	2.167313	[{'label': 'display', 'lat': 41.383012383034355, 'Ing': 2.167313489421665}]	872
6	Restaurant Santa Teresa	Spanish Restaurant	Plaça Tetuán 35	41.395813	2.176280	[{'label': 'display', 'lat': 41.395813467113896, 'Ing': 2.17628002166748}]	756
7	Restaurant SOLC	Mediterranean Restaurant	Passeig de Gràcia 68, 1a Planta	41.393462	2.163973	[{'label': 'display', 'lat': 41.393462, 'Ing': 2.163973}]	911
8	Restaurant Sant Joan	Mediterranean Restaurant	Passeig Sant Joan, 65	41.397375	2.172139	[{'label': 'display', 'lat': 41.39737472012995, 'Ing': 2.1721385095633066}]	898
9	Restaurant Sandvitxeria Elias & Zakarias	Moroccan Restaurant	Calle del Carme, 69	41.380612	2.167654	[{'label': 'display', 'lat': 41.38061173714241, 'Ing': 2.1676541577232076}]	1087
10	Restaurant Synatras	Mediterranean Restaurant	carrer Aribau	41.389559	2.157751	[{'label': 'display', 'lat': 41.3895588034001, 'Ing': 2.157751321792602}]	1309
11	Restaurant self-service del Zoo de Barcelona	Mediterranean Restaurant	NaN	41.385475	2.189095	[{'label': 'display', 'lat': 41.385475158691406, 'Ing': 2.1890947818756104}]	1378
12	Restaurant Siempreviva	Seafood Restaurant	Pg. Joan de Borbó, 7	41.380867	2.186962	[{'label': 'display', 'lat': 41.38086702168688, 'Ing': 2.1869623032954992}]	1473
13	Restaurant Synatras	Tapas Restaurant	Aribau 152	41.392149	2.154580	[{'label': 'display', 'lat': 41.392149, 'Ing': 2.15458}]	1604
14	Subway	Sandwich Place	Consell de Cent 355, Bajos-Derecha	41.391915	2.166430	[{'label': 'display', 'lat': 41.39191481712517, 'Ing': 2.1664299538521625}]	649
15	Restaurant Sergi de Meià	Mediterranean Restaurant	C. Aribau, 106	41.390550	2.157048	[{'label': 'display', 'lat': 41.390550056241544, 'Ing': 2.157047679430999}]	1374
16	Restaurant Saigon	Asian Restaurant	NaN	41.385002	2.150432	[{'label': 'display', 'lat': 41.385002, 'Ing': 2.1504323}]	1980

[{'label': 'display', 'lat':

17	Restaurant Sarment	Restaurant	Corsega 598	41.409046	2.176153	41.4090461730957, 'Ing': 2.1761529445648193}}	2202
18	Subway	Sandwich Place	Plaza Sagrada Familia 17	41.402424	2.174162	[{'label': 'display', 'lat': 41.402424160982235, 'Ing': 2.1741622274183925}]	1455
19	Subway	Sandwich Place	Moll D'Espanya 5, Cc Maremagnum, Local M1	41.375330	2.182473	[{'label': 'display', 'lat': 41.37532951180886, 'Ing': 2.1824727292683566}]	1735
20	Bar Restaurant Shaxian	Chinese Restaurant	Carrer de Nàpols, 95	41.394271	2.180752	[{'label': 'display', 'lat': 41.394271, 'Ing': 2.180752}]	820
21	Dana restaurant siri	Food	Avinguda de Roma, 151	41.380766	2.160410	[{'label': 'display', 'lat': 41.380766, 'Ing': 2.16041}]	1448
22	Bar Restaurant Sagrada Familia	Bar	NaN	41.404885	2.170651	[{'label': 'display', 'lat': 41.404885227467126, 'Ing': 2.1706510795781493}]	1743
23	Bar Restaurant Sandra	Tapas Restaurant	Cartagena, 223	41.406550	2.180522	[{'label': 'display', 'lat': 41.40654983199716, 'Ing': 2.1805221117391125}]	2002
24	Bar Restaurant Single	Restaurant	NaN	41.407612	2.161039	[{'label': 'display', 'lat': 41.40761184692383, 'Ing': 2.161039352416992}]	2279
25	Bar Restaurant Sort	Restaurant	Carrer de Rocafort, 114	41.380530	2.151716	[{'label': 'display', 'lat': 41.38052989064503, 'Ing': 2.1517163515090942}]	2062
26	Ugarit Restaurant Siria	Falafel Restaurant	Calle de Bruniquer, 37, 08024 Barcelona	41.405097	2.161350	[{'label': 'display', 'lat': 41.4050974899685, 'Ing': 2.161349583955438}]	2021
27	Bar Restaurant Sardenya	Bar	Sardenya 457	41.408854	2.165959	[{'label': 'display', 'lat': 41.40885448885995, 'Ing': 2.165958881378174}]	2257

```
In [357]: dataframec.describe()
```

Out[357]:

	location.lat	location.lng	location.distance
count	28.000000	28.000000	28.000000

mean	41.391992	2.169462	1327.642857
std	0.009933	0.010429	595.382306
min	41.375330	2.150432	332.000000
25%	41.384601	2.161272	806.000000
50%	41.391090	2.169373	1376.000000
75%	41.398637	2.176680	1802.250000
max	41.409046	2.189095	2279.000000

```
In [326]: !pip install folium
import folium
```

Requirement already satisfied: folium in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (0.12.1)

Requirement already satisfied: branca>=0.3.0 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from folium) (0.4.2)

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: numpy in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from folium) (1.18.5)

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: 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: 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: chardet<4,>=3.0.2 in /opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages (from requests->folium) (3.0.4)

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)

```
In [327]: venues_map = folium.Map(location=[latitude, longitude], zoom_start=14)

# add a red circle marker to represent the Plaça Catalunya
folium.features.CircleMarker(
    [latitude, longitude],
    radius=5,
    color='red',
    popup='Plaça Urquinaona, Barcelona, SP',
    fill = True,
    fill_color = 'red',
    fill_opacity = 0.6
).add_to(venues_map)

# add the Italian restaurants as blue circle markers
for lat, lng, label in zip(dataframec_filtered.lat, dataframec_filtered.
lng, dataframec_filtered.categories):
    folium.features.CircleMarker(
        [lat, lng],
        radius=5,
        color='blue',
        popup=label,
        fill = True,
        fill_color='blue',
        fill_opacity=0.6
```



```
    ).add_to(venues_map)
```

```
# display map
```

```
venues_map
```

Out[327]: Make this Notebook Trusted to load map: File -> Trust Notebook

```
In [328]: venue_id = '51b33230498ebe9d3e8b5f9a'
url = 'https://api.foursquare.com/v2/venues/{id}?client_id={client_id}&client_secret={secret}&v={version}'.format(venue_id, CLIENT_ID, CLIENT_SECRET, VERSION)
url
```

Out[328]: 'https://api.foursquare.com/v2/venues/51b33230498ebe9d3e8b5f9a?client_id=SQWSTKY34ZXC0BFCW1JLATHAH1XZAQCAIUKXFMVKDGRGLPT&client_secret=JUUFLOEJDRMUJXE1ZNLNT5ETD2C0NPU1UNGBZLCDG0PYCDXJ &v=20180604'

```
In [329]: result = requests.get(url).json()
print(result['response']['venue'].keys())
result['response']['venue']
```

dict_keys(['id', 'name', 'contact', 'location', 'canonicalUrl', 'categories', 'verified', 'stats', 'url', 'price', 'likes', 'dislike', 'ok', 'rating', 'ratingColor', 'ratingSignals', 'allowMenuUrlEdit', 'beenHere', 'specials', 'photos', 'reasons', 'hereNow', 'createdAt', 'tips', 'shortUrl', 'timeZone', 'listed', 'hours', 'popular', 'seasonalHours', 'defaultHours', 'pageUpdates', 'inbox', 'attributes', 'bestPhoto', 'colors'])

Out[329]: {'id': '51b33230498ebe9d3e8b5f9a',
 'name': 'più restaurants',
 'contact': {'phone': '+34934127883',
 'formattedPhone': '+34 934 12 78 83',
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 'facebook': '238837489636798',
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 'location': {'address': 'Gran Via, 633',
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```

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'state': 'Cataluña',
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```

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```

```

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```

```

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'items': [{ 'displayName': 'Brunch', 'displayValue': 'Brunch' },
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{'displayName': 'Dessert', 'displayValue': 'Dessert' } ] },
{'type': 'drinks',
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'summary': 'Full Bar',
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'highlightTextColor': { 'photoId': '571299a3498e6a53adaaf3c2',
'value': -16777216 },
'algoVersion': 3 } }

```

```

In [330]: try:
           print(result['response']['venue']['rating'])
        except:
           print('This venue has not been rated yet.')

```

5.6

```

In [331]: result['response']['venue']['tips']['count']

```

```

Out[331]: 15

```

```
In [332]: limit = 15 # set limit to be greater than or equal to the total number of tips
url = 'https://api.foursquare.com/v2/venues/{}/tips?client_id={}&client_secret={}&v={}&limit={}'.format(venue_id, CLIENT_ID, CLIENT_SECRET, VERSION, limit)

results = requests.get(url).json()
results
```

```
Out[332]: {'meta': {'code': 200, 'requestId': '6009c39664164847434a22b1'},
'response': {'tips': {'count': 15,
'items': [{'id': '59430663b546183f2a93ebda',
'createdAt': 1497564771,
'text': 'Muy buena ensalada tirolesa, y risotto al Pesto! Lemoncelo increíble y muy buena atención a un precio accesible! Muy recomendable!',
'type': 'user',
'canonicalUrl': 'https://foursquare.com/item/59430663b546183f2a93ebda',
'lang': 'es',
'likes': {'count': 0, 'groups': []},
'logView': True,
'agreeCount': 0,
'disagreeCount': 0,
'todo': {'count': 0},
'user': {'firstName': 'Eugenia',
'lastName': 'S',
'countryCode': 'AR'}}]}}
```

```
In [333]: tips = results['response']['tips']['items']
tip = results['response']['tips']['items'][0]
tip.keys()
```

```
Out[333]: dict_keys(['id', 'createdAt', 'text', 'type', 'canonicalUrl', 'lang', 'likes', 'logView', 'agreeCount', 'disagreeCount', 'todo', 'user'])
```

```
In [334]: pd.set_option('display.max_colwidth', -1)

tips_df = json_normalize(tips) # json normalize tips

# columns to keep
filtered_columns = ['text', 'type', 'agreeCount', 'disagreeCount']
tips_filtered = tips_df.loc[:, filtered_columns]

# display tips
tips_filtered

/opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages/ipykernel/__main__.py:1: FutureWarning: Passing a negative integer is deprecated in version 1.0 and will not be supported in future version. Instead, use None to not limit the column width.
if __name__ == '__main__':
/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[334]:
```

	text	type	agreeCount	disagreeCount
0	Muy buena ensalada tirolesa, y risotto al Pesto! Lemoncelo increíble y muy buena atención a un precio accesible! Muy recomendable!	user	0	0

```
In [358]: address = 'Sagrada Familia, Barcelona, SP'
geolocator = Nominatim(user_agent="foursquare_agent")
location = geolocator.geocode(address)
latitude = location.latitude
longitude = location.longitude
print(latitude, longitude)
```

41.4034789 2.174410333009705

```
In [359]: search_query = 'restaurants'
radius = 2000
print(search_query + ' .... OK!')
```

restaurants OK!

```
In [360]: url = 'https://api.foursquare.com/v2/venues/search?client_id={}&client_secret={}&ll={},{}&v={}&query={}&radius={}&limit={}'.format(CLIENT_ID, CLIENT_SECRET, latitude, longitude, VERSION, search_query, radius, LIMIT)
url
```

```
Out[360]: 'https://api.foursquare.com/v2/venues/search?client_id=SQWSTKY34ZXC0BFCW1JLATHAH1XZAQCAIUKXFMVKDGRGLPT&client_secret=JUUFL0EJDRMUJXE1ZNLNT5ETD2C0NPU1UNGBZLCDG0PYCDXJ&ll=41.4034789,2.174410333009705&v=20180604&query=restaurants&radius=2000&limit=30'
```

```
In [361]: import requests
results=requests.get(url).json()
results
```

```
Out[361]: {'meta': {'code': 200, 'requestId': '6009c4463858e2550ce357c1'},
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'España']},
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```

```

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```



```

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'primary': True}],
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'hasPerk': False},
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```

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'distance': 1939,
'cc': 'ES',
```

```
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'shortName': 'Tapas',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/tapas_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '5b1054e8da2e00002cf56188',
'name': 'Restaurant Synatras',
'location': { 'address': 'Aribau 152',
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'lat': 41.392149,
'lng': 2.15458,
'labeledLatLngs': [ { 'label': 'display',
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'lng': 2.15458}],
'distance': 2081,
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'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
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'España']},
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'pluralName': 'Tapas Restaurants',
'shortName': 'Tapas',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/tapas_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
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'name': 'Restaurant Santa Anna',
'location': { 'address': 'C. Santa Anna, 8',
'lat': 41.38509625436647,
'lng': 2.171227185410136,
'labeledLatLngs': [ { 'label': 'display',
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'lng': 2.171227185410136}],
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'neighborhood': 'Готический квартал',
'city': 'Aguilar de Segarra',
'state': 'Cataluña',
'country': 'España',
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'pluralName': 'Paella Restaurants',
'shortName': 'Paella',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/paella_',
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'primary': True}],
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```

```

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'state': 'Cataluña',
'country': 'España',
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'08036 Barcelona Cataluña',
'España']},
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'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
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'hasPerk': False},
{'id': '4bba3a64cf2fc9b69f4ea102',
'name': 'Restaurant Sant Jaume',
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'referralId': 'v-1611252806',
'hasPerk': False},
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'name': 'Restaurant Selenus',
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'labeledLatLngs': [{'label': 'display',
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'country': 'España',
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'pluralName': 'Restaurants',
'shortName': 'Restaurant',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',

```

```

'hasPerk': False},
{'id': '4fc226f0e4b014a2d6ede62f',
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'labeledLatLngs': [{'label': 'display',
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'lng': 2.1890947818756104}],
'distance': 2349,
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'country': 'España',
'formattedAddress': ['España']},
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'shortName': 'Mediterranean',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '53a9095f498ecad91b203707',
'name': 'Restaurant Sergi de Meià',
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'lat': 41.390550056241544,
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'postalCode': '08036',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
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'08036 Barcelona Cataluña',
'España']},
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'name': 'Mediterranean Restaurant',
'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '4c81533b2f1c236a05c52e43',
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'lng': 2.1869623032954992}],
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'state': 'Cataluña',

```

```

'country': 'España',
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'08003 Barcelona Cataluña',
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'pluralName': 'Seafood Restaurants',
'shortName': 'Seafood',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/seafood_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '4c6a9f33c946e21e5922ed8e',
'name': 'Bar Restaurant Sagrada Familia',
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'state': 'Cataluña',
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'name': 'Bar',
'pluralName': 'Bars',
'shortName': 'Bar',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/nightlife/pub_',
'suffix': '.png'},
'primary': True } ],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '5e10facd08517b0008baee01',
'name': 'Subway',
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'lng': 2.1664299538521625,
'labeledLatLngs': [ { 'label': 'display',
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'lng': 2.1664299538521625 } ],
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'city': 'Barcelona',
'state': 'BA',
'country': 'España',
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'08007 Barcelona BA',
'España']},
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'pluralName': 'Sandwich Places',
'shortName': 'Sandwiches',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/deli_',
'suffix': '.png'},
'primary': True } ],
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'hasPerk': False},

```

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{'id': '4e061b3cd1640223a4942f31',
'name': 'Bar Restaurant Sandra',
'location': {'address': 'Cartagena, 223',
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'labeledLatLngs': [{'label': 'display',
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'lng': 2.1805221117391125}],
'distance': 614,
'cc': 'ES',
'country': 'España',
'formattedAddress': ['Cartagena, 223', 'España']},
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'name': 'Tapas Restaurant',
'pluralName': 'Tapas Restaurants',
'shortName': 'Tapas',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/tapas_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '4e2d5f5b18a80bb0586d8425',
'name': 'Bar Restaurant Sol',
'location': {'address': 'Sant Antoni Pare Claret 226',
'lat': 41.41141540540324,
'lng': 2.174827983487697,
'labeledLatLngs': [{'label': 'display',
'lat': 41.41141540540324,
'lng': 2.174827983487697}],
'distance': 884,
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Sant Antoni Pare Claret 226',
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'España']},
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'name': 'Food',
'pluralName': 'Food',
'shortName': 'Food',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '4d5c16026f6d6ea81f4e61ec',
'name': 'Bar Restaurant Sardenya',
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'lng': 2.165958881378174,
'labeledLatLngs': [{'label': 'display',
'lat': 41.40885448885995,
'lng': 2.165958881378174}],
'distance': 925,
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Sardenya 457', 'Barcelona Cataluña', 'España']},
'categories': [{'id': '4bf58dd8d48988d116941735',
```

```
'name': 'Bar',
'pluralName': 'Bars',
'shortName': 'Bar',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/nightlife/pub_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '5d449fac3938ca00085dca0d',
'name': 'Bar Restaurant Shaxian',
'location': {'address': 'Carrer de Nàpols, 95',
'lat': 41.394271,
'lng': 2.180752,
'labeledLatLngs': [{'label': 'display',
'lat': 41.394271,
'lng': 2.180752}]},
'distance': 1153,
'postalCode': '08013',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Carrer de Nàpols, 95',
'08013 Barcelona Cataluña',
'España']},
'categories': [{'id': '4bf58dd8d48988d145941735',
'name': 'Chinese Restaurant',
'pluralName': 'Chinese Restaurants',
'shortName': 'Chinese',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/asian_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '5219fe4211d24dc9cde1b282',
'name': 'Bar Restaurant Single',
'location': {'lat': 41.40761184692383,
'lng': 2.161039352416992,
'labeledLatLngs': [{'label': 'display',
'lat': 41.40761184692383,
'lng': 2.161039352416992}]},
'distance': 1207,
'cc': 'ES',
'country': 'España',
'formattedAddress': ['España']},
'categories': [{'id': '4bf58dd8d48988d1c4941735',
'name': 'Restaurant',
'pluralName': 'Restaurants',
'shortName': 'Restaurant',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '4f1b343fe4b0c74ef1a5be11',
'name': 'Ugarit Restaurant Siria',
'location': {'address': 'Calle de Bruniquer, 37, 08024 Barcelona',
'lat': 41.4050974899685,
'lng': 2.161349583955438,
'labeledLatLngs': [{'label': 'display',
'lat': 41.4050974899685,
```



```
'lng': 2.161349583955438}],
'distance': 1105,
'postalCode': '08024',
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Calle de Bruniquer, 37, 08024 Barcelona',
'08024 Barcelona Cataluña',
'España']],
'categories': [{ 'id': '4bf58dd8d48988d10b941735',
'name': 'Falafel Restaurant',
'pluralName': 'Falafel Restaurants',
'shortName': 'Falafel',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/falafel_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '53779776498e2b3f9dcfbd11',
'name': 'peca-tapes bar restaurant susana',
'location': { 'lat': 41.4160041809082,
'lng': 2.183689594268799,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.4160041809082,
'lng': 2.183689594268799}],
'distance': 1595,
'cc': 'ES',
'country': 'España',
'formattedAddress': ['España']],
'categories': [ { 'id': '4bf58dd8d48988d1c0941735',
'name': 'Mediterranean Restaurant',
'pluralName': 'Mediterranean Restaurants',
'shortName': 'Mediterranean',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
'hasPerk': False},
{'id': '4f9fc566e4b04840b9f62518',
'name': 'Bar Restaurant Susana',
'location': { 'address': 'Escocia, 128',
'lat': 41.42879,
'lng': 2.176861,
'labeledLatLngs': [ { 'label': 'display',
'lat': 41.42879,
'lng': 2.176861}],
'distance': 2825,
'cc': 'ES',
'city': 'Barclona',
'state': 'Spain',
'country': 'España',
'formattedAddress': ['Escocia, 128', 'Barclona Spain', 'España']],
'categories': [ { 'id': '50327c8591d4c4b30a586d5d',
'name': 'Brewery',
'pluralName': 'Breweries',
'shortName': 'Brewery',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/brewery_',
'suffix': '.png'},
'primary': True}],
'referralId': 'v-1611252806',
```

```
'hasPerk': False}}}]}
```

```
In [362]: # assign relevant part of JSON to venues
venues = results['response']['venues']
# tranform venues into a dataframe
dataframe = json_normalize(venues)
dataframe.head()

/opt/conda/envs/Python-3.7-main/lib/python3.7/site-packages/ipykernel/___
main__.py:4: FutureWarning: pandas.io.json.json_normalize is deprecated,
use pandas.json_normalize instead
```

Out[362]:

	id	name	categories	
0	51b33230498ebe9d3e8b5f9a	più restaurants	[[{'id': '4bf58dd8d48988d110941735', 'name': 'Italian Restaurant', 'pluralName': 'Italian Restaurants', 'shortName': 'Italian', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/italian_', 'suffix': '.png'}, 'primary': True}]]	16
1	4ca8691f14c337046a9dd33b	Subway	[[{'id': '4bf58dd8d48988d1c5941735', 'name': 'Sandwich Place', 'pluralName': 'Sandwich Places', 'shortName': 'Sandwiches', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/deli_', 'suffix': '.png'}, 'primary': True}]]	16
2	4fba3d77e4b0c2549a6ef43c	cacheiro restaurants	[[{'id': '4bf58dd8d48988d124941735', 'name': 'Office', 'pluralName': 'Offices', 'shortName': 'Office', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/building/default_', 'suffix': '.png'}, 'primary': True}]]	16
3	51308acfe4b0316003764653	Restaurant Sarment	[[{'id': '4bf58dd8d48988d1c4941735', 'name': 'Restaurant', 'pluralName': 'Restaurants', 'shortName': 'Restaurant', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_', 'suffix': '.png'}, 'primary': True}]]	16
4	4ccc1897ba79a1cdcc9938cb	Restaurant Sant Joan	[[{'id': '4bf58dd8d48988d1c0941735', 'name': 'Mediterranean Restaurant', 'pluralName': 'Mediterranean Restaurants', 'shortName': 'Mediterranean', 'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/mediterranean_', 'suffix': '.png'}, 'primary': True}]]	16

```
In [363]: dataframe.shape
```

Out[363]: (27, 18)

```
In [364]: # keep only columns that include venue name, and anything that is associ
ated with location
filtered_columns = ['name', 'categories'] + [col for col in dataframe.co
lumnns if col.startswith('location.')] + ['id']
dataframe_filtered = dataframe.loc[:, filtered_columns]

# 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']

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

# clean column names by keeping only last term
dataframe_filtered.columns = [column.split('.')[0] for column in dataframe_filtered.columns]

dataframe_filtered
```

Out[364]:

	name	categories	address	lat	lng	labeledLatLngs	distance	po
0	più restaurants	Italian Restaurant	Gran Via, 633	41.391630	2.170842	[{'label': 'display', 'lat': 41.391630393457675, 'lng': 2.1708424436335454}]	1352	
1	Subway	Sandwich Place	Plaza Sagrada Familia 17	41.402424	2.174162	[{'label': 'display', 'lat': 41.402424160982235, 'lng': 2.1741622274183925}]	119	
2	cacheiro restaurants	Office	Rambla de catalunya, 2	41.387459	2.168096	[{'label': 'display', 'lat': 41.387459489432295, 'lng': 2.168095590907808}]	1859	
3	Restaurant Sarment	Restaurant	Corsega 598	41.409046	2.176153	[{'label': 'display', 'lat': 41.4090461730957, 'lng': 2.1761529445648193}]	636	
4	Restaurant Sant Joan	Mediterranean Restaurant	Passeig Sant Joan, 65	41.397375	2.172139	[{'label': 'display', 'lat': 41.39737472012995, 'lng': 2.1721385095633066}]	705	
5	Restaurant Sort	Restaurant	NaN	41.410794	2.175380	[{'label': 'display', 'lat': 41.410793985548466, 'lng': 2.1753798635946224}]	818	
6	Restaurant Santa Teresa	Spanish Restaurant	Plaça Tetuán 35	41.395813	2.176280	[{'label': 'display', 'lat': 41.395813467113896, 'lng': 2.17628002166748}]	867	
7	Restaurant SOLC	Mediterranean Restaurant	Passeig de Gràcia 68, 1a Planta	41.393462	2.163973	[{'label': 'display', 'lat': 41.393462, 'lng': 2.163973}]	1415	
8	Restaurant Santamaria	Tapas Restaurant	NaN	41.387021	2.182037	[{'label': 'display', 'lat': 41.387021472589204, 'lng': 2.1820365503383004}]	1939	
	Restaurant	Tapas				[{'label': 'display', 'lat':		

9	Synatras	Restaurant	Aribau 152	41.392149	2.154580	41.392149, 'lng': 2.15458]]	2081
10	Restaurant Santa Anna	Paella Restaurant	C. Santa Anna, 8	41.385096	2.171227	[{'label': 'display', 'lat': 41.38509625436647, 'lng': 2.171227185410136}]	2063
11	Restaurant Synatras	Mediterranean Restaurant	carrer Aribau	41.389559	2.157751	[{'label': 'display', 'lat': 41.3895588034001, 'lng': 2.157751321792602}]	2082
12	Restaurant Sant Jaume	None	NaN	41.383399	2.177881	[{'label': 'display', 'lat': 41.383399, 'lng': 2.177881}]	2253
13	Restaurant Selenus	Restaurant	NaN	41.383012	2.167313	[{'label': 'display', 'lat': 41.383012383034355, 'lng': 2.167313489421665}]	2354
14	Restaurant self-service del Zoo de Barcelona	Mediterranean Restaurant	NaN	41.385475	2.189095	[{'label': 'display', 'lat': 41.385475158691406, 'lng': 2.1890947818756104}]	2349
15	Restaurant Sergi de Meià	Mediterranean Restaurant	C. Aribau, 106	41.390550	2.157048	[{'label': 'display', 'lat': 41.390550056241544, 'lng': 2.157047679430999}]	2042
16	Restaurant Siempreviva	Seafood Restaurant	Pg. Joan de Borbó, 7	41.380867	2.186962	[{'label': 'display', 'lat': 41.38086702168688, 'lng': 2.1869623032954992}]	2726
17	Bar Restaurant Sagrada Família	Bar	NaN	41.404885	2.170651	[{'label': 'display', 'lat': 41.404885227467126, 'lng': 2.1706510795781493}]	350
18	Subway	Sandwich Place	Consell de Cent 355, Bajos-Derecha	41.391915	2.166430	[{'label': 'display', 'lat': 41.39191481712517, 'lng': 2.1664299538521625}]	1449
19	Bar Restaurant Sandra	Tapas Restaurant	Cartagena, 223	41.406550	2.180522	[{'label': 'display', 'lat': 41.40654983199716, 'lng': 2.1805221117391125}]	614
20	Bar Restaurant Sol	Food	Sant Antoni Pare Claret 226	41.411415	2.174828	[{'label': 'display', 'lat': 41.41141540540324, 'lng': 2.174827983487697}]	884
21	Bar Restaurant Sardenya	Bar	Sardenya 457	41.408854	2.165959	[{'label': 'display', 'lat': 41.40885448885995, 'lng': 2.165958881378174}]	925
22	Bar Restaurant Shaxian	Chinese Restaurant	Carrer de Nàpols, 95	41.394271	2.180752	[{'label': 'display', 'lat': 41.394271, 'lng': 2.180752}]	1153

23	Bar Restaurant Single	Restaurant	NaN	41.407612	2.161039	[[{'label': 'display', 'lat': 41.40761184692383, 'lng': 2.161039352416992}]]	1207
24	Ugarit Restaurant Siria	Falafel Restaurant	Calle de Bruniquer, 37, 08024 Barcelona	41.405097	2.161350	[[{'label': 'display', 'lat': 41.4050974899685, 'lng': 2.161349583955438}]]	1105
25	peca-tapes bar restaurant susana	Mediterranean Restaurant	NaN	41.416004	2.183690	[[{'label': 'display', 'lat': 41.4160041809082, 'lng': 2.183689594268799}]]	1595
26	Bar Restaurant Susana	Brewery	Escocia, 128	41.428790	2.176861	[[{'label': 'display', 'lat': 41.42879, 'lng': 2.176861}]]	2825

```
In [365]: dataframe.describe()
```

Out[365]:

	location.lat	location.lng	location.distance
count	27.000000	27.000000	27.000000
mean	41.397797	2.171963	1472.851852
std	0.011933	0.009109	739.975504
min	41.380867	2.154580	119.000000
25%	41.388509	2.166194	875.500000
50%	41.394271	2.172139	1415.000000
75%	41.407081	2.177371	2072.000000
max	41.428790	2.189095	2825.000000

```
In [366]: venues_dos_map = folium.Map(location=[latitude, longitude], zoom_start=14)

# add a red circle marker to represent the Plaça Espanya
folium.features.CircleMarker(
    [latitude, longitude],
    radius=5,
    color='red',
    popup='Sagrada Familia, Barcelona, SP',
    fill = True,
    fill_color = 'red',
    fill_opacity = 0.6
).add_to(venues_dos_map)

# add the Italian restaurants as blue circle markers
for lat, lng, label in zip(dataframe_filtered.lat, dataframe_filtered.lng, dataframe_filtered.categories):
    folium.features.CircleMarker(
        [lat, lng],
        radius=5,
        color='blue',
        popup=label,
```

```

        fill = True,
        fill_color='blue',
        fill_opacity=0.6
    ).add_to(venues_dos_map)

# display map
venues_dos_map

```

Out[366]: Make this Notebook Trusted to load map: File -> Trust Notebook

```

In [380]: venue_id = '4ca8691f14c337046a9dd33b'
url = 'https://api.foursquare.com/v2/venues/{}?client_id={} &client_secret={} &v={}'.format(venue_id, CLIENT_ID, CLIENT_SECRET, VERSION)
url

```

Out[380]: 'https://api.foursquare.com/v2/venues/4ca8691f14c337046a9dd33b?client_id=SQWSTKY34ZXC0BFCW1J LATHAH1XZAQCAIUXXFMVKDGRGLLPT&client_secret=JUUFLOEJDRMUJXE1ZNLNT5ETD2C0N PU1UNGBZLCDG0PYCDXJ &v=20180604'

```

In [381]: result = requests.get(url).json()
print(result['response']['venue'].keys())
result['response']['venue']

```

dict_keys(['id', 'name', 'contact', 'location', 'canonicalUrl', 'categories', 'verified', 'stats', 'url', 'price', 'likes', 'dislike', 'ok', 'menu', 'allowMenuUrlEdit', 'beenHere', 'specials', 'photos', 'reasons', 'description', 'hereNow', 'createdAt', 'tips', 'shortUrl', 'timeZone', 'listed', 'hours', 'seasonalHours', 'defaultHours', 'pageUpdates', 'inbox', 'attributes', 'bestPhoto', 'colors'])

Out[381]: {'id': '4ca8691f14c337046a9dd33b',
 'name': 'Subway',
 'contact': {'phone': '+34934592601', 'formattedPhone': '+34 934 59 26 01'},
 'location': {'address': 'Plaza Sagrada Familia 17',
 'lat': 41.402424160982235,
 'lng': 2.1741622274183925,
 'labeledLatLngs': [{'label': 'display',
 'lat': 41.402424160982235,
 'lng': 2.1741622274183925}],
 'postalCode': '08013',
 'cc': 'ES',
 'city': 'Barcelona',
 'state': 'BA',

```
'country': 'España',
'formattedAddress': ['Plaza Sagrada Familia 17',
'08013 Barcelona BA',
'España']},
'canonicalUrl': 'https://foursquare.com/v/subway/4ca8691f14c337046a9dd33b',
'categories': [{ 'id': '4bf58dd8d48988d1c5941735',
'name': 'Sandwich Place',
'pluralName': 'Sandwich Places',
'shortName': 'Sandwiches',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/deli_',
'suffix': '.png'},
'primary': True},
{'id': '4bf58dd8d48988d16e941735',
'name': 'Fast Food Restaurant',
'pluralName': 'Fast Food Restaurants',
'shortName': 'Fast Food',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/fastfood_',
'suffix': '.png'}},
{'id': '4bf58dd8d48988d1c4941735',
'name': 'Restaurant',
'pluralName': 'Restaurants',
'shortName': 'Restaurant',
'icon': { 'prefix': 'https://ss3.4sqi.net/img/categories_v2/food/default_',
'suffix': '.png'}}},
'verified': False,
'stats': { 'tipCount': 0},
'url': 'https://restaurants.subway.com/spain/barcelona/plaza-sagrada-familia-17?y_source=1_MTQ5MjY1MTAtNDQwLWxvY2F0aW9uLndlYnNpdGU=',
'price': { 'tier': 1, 'message': 'Cheap', 'currency': '€'},
'likes': { 'count': 1,
'groups': [ { 'type': 'others',
'count': 1,
'items': [ { 'firstName': 'Fernando',
'lastName': 'G',
'countryCode': 'ES' } ] } ] },
'summary': '1 Like'},
'dislike': False,
'ok': False,
'menu': { 'type': 'Menu',
'label': 'Menu',
'anchor': 'View Menu',
'url': 'http://subwayspain.com/es/menus.html?y_source=1_MTQ5MjY1MTAtNDQwLWxvY2F0aW9uLm1lbnVfdXJs',
'mobileUrl': 'http://subwayspain.com/es/menus.html?y_source=1_MTQ5MjY1MTAtNDQwLWxvY2F0aW9uLm1lbnVfdXJs',
'externalUrl': 'http://subwayspain.com/es/menus.html?y_source=1_MTQ5MjY1MTAtNDQwLWxvY2F0aW9uLm1lbnVfdXJs'},
'allowMenuUrlEdit': True,
'beenHere': { 'count': 0,
'unconfirmedCount': 0,
'marked': False,
'lastCheckinExpiredAt': 0},
'specials': { 'count': 0, 'items': [] },
'photos': { 'count': 1,
'groups': [ { 'type': 'venue',
'name': 'Venue photos',
'count': 1,
'items': [ { 'id': '5041eaf4e4b053a531a9e810',
'createdAt': 1346497268,
'source': { 'name': 'Foursquare for Android',
'url': 'https://foursquare.com/download/#!/android' },
```

```

    'prefix': 'https://fastly.4sqi.net/img/general/',
    'suffix': '/fhVr38F7yYp2f4Pvk-uPvcnhD4goliAunMYbcCfYEH0.jpg',
    'width': 720,
    'height': 540,
    'user': {'firstName': 'Igor', 'lastName': 'N', 'countryCode': 'UA'},
    'visibility': 'public'}}}},
  'reasons': {'count': 0, 'items': []},
  'description': 'Your local Subway® Restaurant, located at Plaza Sagrada Familia 17 brings delicious ingredie
nts and mouth-watering flavors in billions of sandwich, salad and wrap combinations to you. An alternative t
o traditional fast food, we offer freshly cut veggies, toppings, protein and freshly-baked bread ...',
  'hereNow': {'count': 0, 'summary': 'Nobody here', 'groups': []},
  'createdAt': 1286105375,
  'tips': {'count': 0, 'groups': []},
  'shortUrl': 'http://4sq.com/cQ8kDx',
  'timeZone': 'Europe/Madrid',
  'listed': {'count': 0,
  'groups': [{'type': 'others',
    'name': 'Lists from other people',
    'count': 0,
    'items': []}]},
  'hours': {'status': 'Open until 10:00 PM',
  'richStatus': {'entities': [], 'text': 'Open until 10:00 PM'},
  'isOpen': True,
  'isLocalHoliday': False,
  'dayData': [],
  'timeframes': [{'days': 'Mon–Thu, Sun',
    'includesToday': True,
    'open': [{'renderedTime': '10:30 AM–10:00 PM'}],
    'segments': []},
  {'days': 'Fri–Sat',
    'open': [{'renderedTime': '10:30 AM–11:00 PM'}],
    'segments': []}]},
  'seasonalHours': [],
  'defaultHours': {'status': 'Open until 10:00 PM',
  'richStatus': {'entities': [], 'text': 'Open until 10:00 PM'},
  'isOpen': True,
  'isLocalHoliday': False,
  'dayData': [],
  'timeframes': [{'days': 'Mon–Thu, Sun',
    'includesToday': True,
    'open': [{'renderedTime': '10:30 AM–10:00 PM'}],
    'segments': []},
  {'days': 'Fri–Sat',
    'open': [{'renderedTime': '10:30 AM–11:00 PM'}],
    'segments': []}]},
  'pageUpdates': {'count': 0, 'items': []},
  'inbox': {'count': 0, 'items': []},
  'attributes': {'groups': [{'type': 'price',
    'name': 'Price',
    'summary': '€',
    'count': 1,
    'items': [{'displayName': 'Price',
      'displayValue': '€',
      'priceTier': 1}]}]},
  'bestPhoto': {'id': '5041eaf4e4b053a531a9e810',
  'createdAt': 1346497268,
  'source': {'name': 'Foursquare for Android',
  'url': 'https://foursquare.com/download/#/android'},
  'prefix': 'https://fastly.4sqi.net/img/general/',
  'suffix': '/fhVr38F7yYp2f4Pvk-uPvcnhD4goliAunMYbcCfYEH0.jpg',
  'width': 720,

```



```
'height': 540,
'visibility': 'public'},
'colors': {'highlightColor': {'photoId': '5041eaf4e4b053a531a9e810',
'value': -5724000},
'highlightTextColor': {'photoId': '5041eaf4e4b053a531a9e810',
'value': -16777216},
'algoVersion': 3}}
```

```
In [376]: venue_id = '4c6a9f33c946e21e5922ed8e'
url = 'https://api.foursquare.com/v2/venues/{}?client_id={}&client_secret={}&v={}'.format(venue_id, CLIENT_ID, CLIENT_SECRET, VERSION)
url
```

```
Out[376]: 'https://api.foursquare.com/v2/venues/4c6a9f33c946e21e5922ed8e?client_id=SQWSTKY34ZXC0BFCW1JLATHAH1XZAQCAIUXXFMVKDGRGLLPT&client_secret=JUUFLOEJDRMUJXE1ZNLNT5ETD2C0NPU1UNGBZLCDG0PYCDXJ &v=20180604'
```

```
In [377]: result = requests.get(url).json()
print(result['response']['venue'].keys())
result['response']['venue']
```

```
dict_keys(['id', 'name', 'contact', 'location', 'canonicalUrl', 'categories', 'verified', 'stats', 'price', 'likes', 'dislike', 'ok', 'rating', 'ratingColor', 'ratingSignals', 'allowMenuUrlEdit', 'beenHere', 'specials', 'photos', 'reasons', 'hereNow', 'createdAt', 'tips', 'shortUrl', 'timeZone', 'listed', 'seasonalHours', 'pageUpdates', 'inbox', 'attributes', 'bestPhoto', 'colors'])
```

```
Out[377]: {'id': '4c6a9f33c946e21e5922ed8e',
'name': 'Bar Restaurant Sagrada Familia',
'contact': {},
'location': {'lat': 41.404885227467126,
'lng': 2.1706510795781493,
'labeledLatLngs': [{'label': 'display',
'lat': 41.404885227467126,
'lng': 2.1706510795781493}],
'cc': 'ES',
'city': 'Barcelona',
'state': 'Cataluña',
'country': 'España',
'formattedAddress': ['Barcelona Cataluña', 'España']},
'canonicalUrl': 'https://foursquare.com/v/bar-restaurant-sagrada-familia/4c6a9f33c946e21e5922ed8e',
'categories': [{'id': '4bf58dd8d48988d116941735',
'name': 'Bar',
'pluralName': 'Bars',
'shortName': 'Bar',
'icon': {'prefix': 'https://ss3.4sqi.net/img/categories_v2/nightlife/pub_',
'suffix': '.png'},
'primary': True}],
'verified': False,
'stats': {'tipCount': 4},
'price': {'tier': 2, 'message': 'Moderate', 'currency': '€'},
'likes': {'count': 6,
'groups': [{'type': 'others',
'count': 6,
'items': [{'firstName': 'Patricia', 'lastName': 'P', 'countryCode': 'ES'},
{'firstName': 'Fatih', 'lastName': 'T', 'countryCode': 'TR'},
{'firstName': 'TC Ayça', 'lastName': 'E', 'countryCode': 'AU'},
{'firstName': 'Giovani', 'lastName': 'U', 'countryCode': 'CA'}]}]},
'summary': '6 Likes'},
'dislike': False,
'ok': False,
'rating': 6.4,
```

```

'ratingColor': 'FFC800',
'ratingSignals': 12,
'allowMenuUrlEdit': True,
'beenHere': {'count': 0,
'unconfirmedCount': 0,
'marked': False,
'lastCheckinExpiredAt': 0},
'specials': {'count': 0, 'items': []},
'photos': {'count': 9,
'groups': [{ 'type': 'venue',
'name': 'Venue photos',
'count': 9,
'items': [{ 'id': '566da430498e266e0ec5af3e',
'createdAt': 1450026032,
'source': { 'name': 'Swarm for Android',
'url': 'https://www.swarmapp.com'},
'prefix': 'https://fastly.4sqi.net/img/general/',
'suffix': '/11371676_TTCvBbuc2gmvNXU6kxg59pEkA05imkpTCMWiOxsf8mA.jpg',
'width': 960,
'height': 540,
'user': { 'firstName': 'aberinkula', 'countryCode': 'MV'},
'visibility': 'public'}]}]},
'reasons': {'count': 0, 'items': []},
'hereNow': {'count': 0, 'summary': 'Nobody here', 'groups': []},
'createdAt': 1282055987,
'tips': {'count': 4,
'groups': [{ 'type': 'others',
'name': 'All tips',
'count': 4,
'items': [{ 'id': '53668754498e9771d8cde958',
'createdAt': 1399228244,
'text': 'Comida casera y trato familiar',
'type': 'user',
'canonicalUrl': 'https://foursquare.com/item/53668754498e9771d8cde958',
'lang': 'es',
'likes': {'count': 1,
'groups': [{ 'type': 'others',
'count': 1,
'items': [{ 'firstName': 'Sara',
'lastName': 'G',
'countryCode': 'PT'}]}]},
'summary': '1 like'},
'logView': True,
'agreeCount': 1,
'disagreeCount': 0,
'todo': {'count': 0},
'user': { 'firstName': 'Rafa', 'lastName': 'V', 'countryCode': 'ES'},
'authorInteractionType': 'liked'}]}]},
'shortUrl': 'http://4sq.com/dq2ZJi',
'timeZone': 'Europe/Madrid',
'listed': {'count': 0,
'groups': [{ 'type': 'others',
'name': 'Lists from other people',
'count': 0,
'items': []}]},
'seasonalHours': [],
'pageUpdates': {'count': 0, 'items': []},
'inbox': {'count': 0, 'items': []},
'attributes': {'groups': [{ 'type': 'price',
'name': 'Price',
'summary': '€€',

```

```

'count': 1,
'items': [{ 'displayName': 'Price', 'displayValue': '€€', 'priceTier': 2 }],
{'type': 'outdoorSeating',
'name': 'Outdoor Seating',
'summary': 'Outdoor Seating',
'count': 1,
'items': [{ 'displayName': 'Outdoor Seating', 'displayValue': 'Yes' }]}],
'bestPhoto': { 'id': '566da430498e266e0ec5af3e',
'createdAt': 1450026032,
'source': { 'name': 'Swarm for Android', 'url': 'https://www.swarmapp.com' },
'prefix': 'https://fastly.4sqi.net/img/general/',
'suffix': '/11371676_TTCvBbuc2gmvNXU6kxg59pEkA05imkpTCMWiOxsf8mA.jpg',
'width': 960,
'height': 540,
'visibility': 'public' },
'colors': { 'highlightColor': { 'photoId': '566da430498e266e0ec5af3e',
'value': -11526144 },
'highlightTextColor': { 'photoId': '566da430498e266e0ec5af3e', 'value': -1 },
'algoVersion': 3 } }

```

```

In [378]: try:
           print(result['response']['venue']['rating'])
        except:
           print('This venue has not been rated yet.')

```

6.4

```

In [379]: result['response']['venue']['tips']['count']

```

Out[379]: 4

```

In [371]: limit = 15 # set limit to be greater than or equal to the total number o
f tips
url = 'https://api.foursquare.com/v2/venues/{}/tips?client_id={}&client_
secret={}&v={}&limit={}'.format(venue_id, CLIENT_ID, CLIENT_SECRET, VERS
ION, limit)

results = requests.get(url).json()
results

```

```

Out[371]: {'meta': {'code': 200, 'requestId': '6009c451f7c8ca3b753e309d'},
'response': {'tips': {'count': 0, 'items': []}}}

```

In []: