

Name	Last Modified
checkpoints	6 days ago
cskg	16 hours ago
GB-Net	a month ago
jSGG	21 hours ago
<b>j_CSKG-Copy1.ipynb</b>	<b>a minute ago</b>
j_CSKG.ipynb	9 minutes ago
j_SGG.ipynb	20 hours ago
s3.ipynb	21 hours ago

### Setup & Installation

```
[1]: # Clone cskg and CD
import os
os.chdir('/root/')
if os.path.isdir('cskg')==False:
    !git clone https://github.com/usc-isi-i2/cskg
os.chdir('cskg')

[2]: # Setup
if os.path.isdir('grounding/graphify')==False:
    !git clone https://github.com/ucinlp/mowgli-uci
    !mv mowgli-uci/* grounding/

!python -m pip install -r requirements.txt --no-cache-dir
!python -m pip install -r grounding/requirements.txt --no-cache-dir
!conda install --yes faiss-cpu -c pytorch # -n mowgli
!python -m spacy download en_core_web_lg

/opt/conda/lib/python3.7/site-packages/secretstorage/dhcrypto.py:16: CryptographyDeprecationWarning: int_from_bytes is deprecated, use int.from_bytes instead
from cryptography.utils import int_from_bytes
/opt/conda/lib/python3.7/site-packages/secretstorage/util.py:25: CryptographyDeprecationWarning: int_from_bytes is deprecated, use int.from_bytes instead
from cryptography.utils import int_from_bytes
Processing /tmp/build/80754af9/six_1605205313296/work
ERROR: Could not install packages due to an OSError: [Errno 2] No such file or directory: '/tmp/build/80754af9/six_1605205313296/work'

/opt/conda/lib/python3.7/site-packages/secretstorage/dhcrypto.py:16: CryptographyDeprecationWarning: int_from_bytes is deprecated, use int.from_bytes instead
from cryptography.utils import int_from_bytes
/opt/conda/lib/python3.7/site-packages/secretstorage/util.py:25: CryptographyDeprecationWarning: int_from_bytes is deprecated, use int.from_bytes instead
from cryptography.utils import int_from_bytes
Requirement already satisfied: alabaster==0.7.12 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 1)) (0.7.12)
Collecting allennlp==0.9.0
  Downloading allennlp-0.9.0-py3-none-any.whl (7.6 MB)
    |#####| 7.6 MB 27.7 MB/s eta 0:00:01
Requirement already satisfied: Babel==2.8.0 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 3)) (2.8.0)
Collecting certifi==2019.11.28
  Downloading certifi-2019.11.28-py2.py3-none-any.whl (156 kB)
    |#####| 156 kB 84.5 MB/s eta 0:00:01
Collecting cffi==1.13.2
  Downloading cffi-1.13.2-cp37-cp37m-manylinux1_x86_64.whl (398 kB)
    |#####| 398 kB 82.5 MB/s eta 0:00:01
Requirement already satisfied: chardet==3.0.4 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 6)) (3.0.4)
Requirement already satisfied: docutils==0.15.2 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 7)) (0.15.2)
Requirement already satisfied: idna==2.8 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 8)) (2.8)
Requirement already satisfied: imagesize==1.2.0 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 9)) (1.2.0)
Collecting Jinja2==2.10.3
  Downloading Jinja2-2.10.3-py2.py3-none-any.whl (125 kB)
    |#####| 125 kB 106.1 MB/s eta 0:00:01
Collecting jsonlines==1.2.0
  Downloading jsonlines-1.2.0-py2.py3-none-any.whl (7.6 kB)
Collecting langcodes==1.4.1
  Downloading langcodes-1.4.1.tar.gz (4.0 MB)
    |#####| 4.0 MB 75.2 MB/s eta 0:00:01
Collecting MarkupSafe==1.1.1
  Downloading MarkupSafe-1.1.1-cp37-cp37m-manylinux2010_x86_64.whl (33 kB)
Collecting numpy==1.17.4
  Downloading numpy-1.17.4-cp37-cp37m-manylinux1_x86_64.whl (20.0 MB)
    |#####| 20.0 MB 84.2 MB/s eta 0:00:01
Requirement already satisfied: numpydoc==0.9.2 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 15)) (0.9.2)
Collecting packaging==20.0
  Downloading packaging-20.0-py2.py3-none-any.whl (36 kB)
Requirement already satisfied: pyparser==2.19 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 17)) (2.19)
Requirement already satisfied: Pygments==2.5.2 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 18)) (2.5.2)
Requirement already satisfied: pyparsing==2.4.6 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 19)) (2.4.6)
Collecting pyqt5==5.12.0
  Downloading PyQt5-5.12-5.12.1-a-cp35-cp36-cp37-cp38-abi3-manylinux1_x86_64.whl (61.1 MB)
    |#####| 61.1 MB 31.7 MB/s eta 0:00:01 | 3.8 MB 31.7 MB/s eta 0:00:02 |#####|
  Downloading PyQt5-5.12-5.12.1-cp35-cp36-cp37-cp38-abi3-manylinux1_x86_64.whl (61.0 MB)
    |#####| 61.0 MB 32.9 MB/s eta 0:00:01
Requirement already satisfied: pytz==2019.3 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 22)) (2019.3)
Collecting regex==2018.2.21
  Downloading regex-2018.02.21.tar.gz (620 kB)
    |#####| 620 kB 80.0 MB/s eta 0:00:01
Collecting requests==2.22.0
  Downloading requests-2.22.0-py2.py3-none-any.whl (57 kB)
    |#####| 57 kB 61.1 MB/s eta 0:00:01
Collecting spacy==2.2.3
  Downloading spacy-2.2.3-cp37-cp37m-manylinux1_x86_64.whl (10.4 MB)
    |#####| 10.4 MB 32.5 MB/s eta 0:00:01
Collecting six==1.13.0
  Downloading six-1.13.0-py2.py3-none-any.whl (10 kB)
Requirement already satisfied: snowballstemmer==2.0.0 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 27)) (2.0.0)
Collecting Sphinx==2.3.1
  Downloading Sphinx-2.3.1-py3-none-any.whl (2.7 MB)
    |#####| 2.7 MB 84.5 MB/s eta 0:00:01
Requirement already satisfied: sphinxcontrib-applehelp==1.0.1 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 29)) (1.0.1)
Requirement already satisfied: sphinxcontrib-devhelp==1.0.1 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 30)) (1.0.1)
Requirement already satisfied: sphinxcontrib-htmlhelp==1.0.2 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 31)) (1.0.2)
Requirement already satisfied: sphinxcontrib-jsmath==1.0.1 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 32)) (1.0.1)
Requirement already satisfied: sphinxcontrib-qthelp==1.0.2 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 33)) (1.0.2)
Requirement already satisfied: sphinxcontrib-serializinghtml==1.1.3 in /opt/conda/lib/python3.7/site-packages (from -r grounding/requirements.txt (line 34)) (1.1.3)
Collecting torch==1.3.1
  Downloading torch-1.3.1-cp37-cp37m-manylinux1_x86_64.whl (734.6 MB)
    |#####| 734.6 MB 53.4 MB/s eta 0:00:01 | 358.9 MB 149.0 MB/s eta 0:00:03
Collecting tqdm==4.40.2
  Downloading tqdm-4.40.2-py2.py3-none-any.whl (55 kB)
    |#####| 55 kB 80.5 MB/s eta 0:00:01
Collecting urllib3==1.25.7
  Downloading urllib3-1.25.7-py2.py3-none-any.whl (125 kB)
    |#####| 125 kB 107.2 MB/s eta 0:00:01
```

```
Collecting wordfreq==2.2.1
  Downloading wordfreq-2.2.1-py3-none-any.whl (32.8 MB)
  | 32.8 MB 46.2 MB/s eta 0:00:01
Collecting xmldict==0.12.0
  Downloading xmldict-0.12.0-py3-none-any.whl (9.2 kB)
Collecting responses>=0.7
  Downloading responses-0.13.4-py2.py3-none-any.whl (25 kB)
Collecting editdistance
  Downloading editdistance-0.5.3-cp37-cp37m-manylinux1_x86_64.whl (179 kB)
  | 179 kB 83.9 MB/s eta 0:00:01
Requirement already satisfied: h5py in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (2.10.0)
Collecting sqlparse>=0.2.4
  Downloading sqlparse-0.4.1-py3-none-any.whl (42 kB)
  | 42 kB 29.5 MB/s eta 0:00:01
Collecting parsimonious>=0.8.0
  Downloading parsimonious-0.8.1.tar.gz (45 kB)
  | 45 kB 52.6 MB/s eta 0:00:01
Collecting pytorch-pretrained-bert>=0.6.0
  Downloading pytorch_pretrained_bert-0.6.2-py3-none-any.whl (123 kB)
  | 123 kB 61.5 MB/s eta 0:00:01
Collecting jsonnet>=0.10.0
  Downloading jsonnet-0.17.0.tar.gz (259 kB)
  | 259 kB 64.3 MB/s eta 0:00:01
Collecting flask-cors>=3.0.7
  Downloading Flask_Cors-3.0.10-py2.py3-none-any.whl (14 kB)
Requirement already satisfied: nltk in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (3.4.5)
Requirement already satisfied: flask>=1.0.2 in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (1.1.1)
Requirement already satisfied: scipy in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (1.4.1)
Collecting flaky
  Downloading flaky-3.7.0-py2.py3-none-any.whl (22 kB)
Requirement already satisfied: overrides in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (3.1.0)
Collecting jsonpickle
  Downloading jsonpickle-2.0.0-py2.py3-none-any.whl (37 kB)
Requirement already satisfied: boto3 in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (1.18.27)
Requirement already satisfied: ftfy in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (6.0.3)
Requirement already satisfied: pytest in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (5.3.5)
Collecting conllu==1.3.1
  Downloading conllu-1.3.1-py2.py3-none-any.whl (9.3 kB)
Collecting word2number>=1.1
  Downloading word2number-1.1.zip (9.7 kB)
Requirement already satisfied: matplotlib>=2.2.3 in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (3.1.3)
Collecting unicodecode
  Downloading Unicode-1.2.0-py2.py3-none-any.whl (241 kB)
  | 241 kB 91.1 MB/s eta 0:00:01
Requirement already satisfied: scikit-learn in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (0.22.1)
Collecting pytorch-transformers==1.1.0
  Downloading pytorch_transformers-1.1.0-py3-none-any.whl (158 kB)
  | 158 kB 20.0 MB/s eta 0:00:01
Requirement already satisfied: tensorboardX>=1.2 in /opt/conda/lib/python3.7/site-packages (from allennlp==0.9.0->-r grounding/requirements.txt (line 2)) (2.4)
INFO: pip is looking at multiple versions of alabaster to determine which version is compatible with other requirements. This could take a while.
Collecting alabaster==0.7.12
  Downloading alabaster-0.7.12-py2.py3-none-any.whl (14 kB)
ERROR: Cannot install -r grounding/requirements.txt (line 2) and spacy==2.2.3 because these package versions have conflicting dependencies.

The conflict is caused by:
  The user requested spacy==2.2.3
  allennlp 0.9.0 depends on spacy<2.2 and >=2.1.0

To fix this you could try to:
1. loosen the range of package versions you've specified
2. remove package versions to allow pip attempt to solve the dependency conflict

ERROR: ResolutionImpossible: for help visit https://pip.pypa.io/en/latest/user_guide/#fixing-conflicting-dependencies
Collecting package metadata (current_repodata.json): done
Solving environment: done

# All requested packages already installed.

/opt/conda/lib/python3.7/site-packages/secretstorage/dhcrypto.py:16: CryptographyDeprecationWarning: int_from_bytes is deprecated, use int.from_bytes instead
  from cryptography.utils import int_from_bytes
/opt/conda/lib/python3.7/site-packages/secretstorage/util.py:25: CryptographyDeprecationWarning: int_from_bytes is deprecated, use int.from_bytes instead
  from cryptography.utils import int_from_bytes
Collecting en_core_web_lg==2.2.5
  Downloading https://github.com/explosion/spacy-models/releases/download/en_core_web_lg-2.2.5/en_core_web_lg-2.2.5.tar.gz (827.9 MB)
  | 827.9 MB 83.3 MB/s eta 0:00:12 | 163.1 MB 3.2 MB/s eta 0:03:26 |
  | 222.3 MB 144.1 MB/s eta 0:00:05 | 322.8 MB 155.8 MB/s eta 0:00:04 | 432.8 MB 66.9 MB/s eta 0:00:06 | 503.8 MB 53.9 MB/s eta 0:00:07 | 759.5 MB 3.9 MB/s eta 0:00:18 |
Requirement already satisfied: spacy==2.2.2 in /opt/conda/lib/python3.7/site-packages (from en_core_web_lg==2.2.5) (2.2.4)
Requirement already satisfied: cytoolz<2.1.0,>=2.0.2 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (2.0.5)
Requirement already satisfied: srsly<1.1.0,>=1.0.2 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (1.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (1.0.5)
Requirement already satisfied: tqdm<5.0.0,>=4.38.0 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (4.42.1)
Requirement already satisfied: setuptools in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (57.4.0)
Requirement already satisfied: catalogue<1.1.0,>=0.0.7 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (1.0.0)
Requirement already satisfied: thinc==7.4.0 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (7.4.0)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (3.0.5)
Requirement already satisfied: plac<1.2.0,>=0.9.6 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (1.1.3)
Requirement already satisfied: numpy>=1.15.0 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (1.20.3)
Requirement already satisfied: requests<3.0.0,>=2.13.0 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (2.26.0)
Requirement already satisfied: wasabi<1.1.0,>=0.4.0 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (0.8.2)
Requirement already satisfied: blis<0.5.0,>=0.4.0 in /opt/conda/lib/python3.7/site-packages (from spacy==2.2.2->en_core_web_lg==2.2.5) (0.4.1)
Requirement already satisfied: importlib-metadata>=0.20 in /opt/conda/lib/python3.7/site-packages (from catalogue<1.1.0,>=0.0.7->spacy==2.2.2->en_core_web_lg==2.2.5) (1.5.0)
Requirement already satisfied: zipp>=0.5 in /opt/conda/lib/python3.7/site-packages (from importlib-metadata>=0.20->catalogue<1.1.0,>=0.0.7->spacy==2.2.2->en_core_web_lg==2.2.5) (2.2.0)
Requirement already satisfied: idna<4,>=2.5 in /opt/conda/lib/python3.7/site-packages (from requests<3.0.0,>=2.13.0->spacy==2.2.2->en_core_web_lg==2.2.5) (2.8)
Requirement already satisfied: charset-normalizer==2.0.0 in /opt/conda/lib/python3.7/site-packages (from requests<3.0.0,>=2.13.0->spacy==2.2.2->en_core_web_lg==2.2.5) (2.0.4)
Requirement already satisfied: certifi>=2017.4.17 in /opt/conda/lib/python3.7/site-packages (from requests<3.0.0,>=2.13.0->spacy==2.2.2->en_core_web_lg==2.2.5) (2021.5.30)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /opt/conda/lib/python3.7/site-packages (from requests<3.0.0,>=2.13.0->spacy==2.2.2->en_core_web_lg==2.2.5) (1.26.6)
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommend
```

ed to use a virtual environment instead: <https://pip.pypa.io/warnings/venv>

✓ Download and installation successful

You can now load the model via `spacy.load('en_core_web_lg')`

```
[3]: # Downloads
# Download all files from https://drive.google.com/drive/u/1/folders/16347KHSLoJJZIbgC9V5gH7_pRx0CzjPQ
# and place in 'csg/output' folder
# Move BERT embeddings ('bert_nli_large_w2v_format.txt.gz') to 'csg/output/embeddings'
# !wget https://conceptnet.s3.amazonaws.com/downloads/2019/numberbatch/numberbatch-19.08.txt.gz -P output/embeddings/
# !gunzip -k output/*.txt.gz
# !gunzip -k output/*.tsv.gz
# !gunzip -k output/embeddings/*.txt.gz
```