

Name	Last Modified
checkpoints	6 days ago
cskg	16 hours ago
GB-Net	a month ago
jSGG	21 hours ago
j_CSKG-Copy1.ipynb	2 minutes ago
j_CSKG.ipynb	15 minutes ago
j_SGG.ipynb	20 hours ago
s3.ipynb	a day ago

```

Setup & Installation

[4]: # 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')

[5]: # Setup 1/2
if os.path.isdir('grounding/graphify')==False:
    !git clone https://github.com/ucinlp/mowgli-uci
    !mv mowgli-uci/* grounding/

# Remove versions from package names in dependencies to avoid conflict
file2 = open("requirements1.txt","w")
with open("requirements.txt", "r") as file1:
    for pkgver in file1:
        if '=' in pkgver:
            [pkg, ver] = pkgver.split('=')
            file2.write(pkg+'\n')
file1.close()
file2.close()
file2 = open("grounding/requirements1.txt", "w")
with open("grounding/requirements.txt", "r") as file1:
    for pkgver in file1:
        if '=' in pkgver:
            [pkg, ver] = pkgver.split('=')
            file2.write(pkg+'\n')
file1.close()
file2.close()

# Setup 2/2
!python -m pip install -r requirements1.txt --no-cache-dir
!python -m pip install -r grounding/requirements1.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
s 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 in
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from cryptography.utils import int_from_bytes
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Requirement already satisfied: typing in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 164)) (3.7.4.3)
Requirement already satisfied: typing-extensions in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 165)) (3.10.0.0)
Requirement already satisfied: tzlocal in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 166)) (3.0)
Requirement already satisfied: ujson in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 167)) (1.35)
Requirement already satisfied: urllib3 in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 168)) (1.26.6)
Requirement already satisfied: wasabi in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 169)) (0.8.2)
Requirement already satisfied: wcwidth in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 170)) (0.1.8)
Requirement already satisfied: webencodings in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 171)) (0.5.1)
Requirement already satisfied: widgetsnextension in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 172)) (3.5.1)
Requirement already satisfied: wrapt in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 173)) (1.11.2)
Requirement already satisfied: xldr in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 174)) (1.2.0)
Requirement already satisfied: xlwt in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 175)) (1.3.0)
Requirement already satisfied: zict in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 176)) (1.0.0)
Requirement already satisfied: zipp in /opt/conda/lib/python3.7/site-packages (from -r requirements1.txt (line 177)) (2.2.0)
Requirement already satisfied: six in /opt/conda/lib/python3.7/site-packages (from argon2-cffi->r requirements1.txt (line 2)) (1.14.0)
Requirement already satisfied: setuptools in /opt/conda/lib/python3.7/site-packages (from distributed->r requirements1.txt (line 27)) (57.4.0)
Requirement already satisfied: tom1 in /opt/conda/lib/python3.7/site-packages (from mypy->r requirements1.txt (line 77)) (0.10.2)
Requirement already satisfied: charset-normalizer<=2.0.0 in /opt/conda/lib/python3.7/site-packages (from requests->r requirements1.txt (line 128)) (2.0.4)
Requirement already satisfied: huggingface-hub in /opt/conda/lib/python3.7/site-packages (from sentence-transformers->r requirements1.txt (line 136)) (0.0.12)
Requirement already satisfied: torchvision in /opt/conda/lib/python3.7/site-packages (from sentence-transformers->r requirements1.txt (line 136)) (0.10.0)
Requirement already satisfied: backports.zoneinfo in /opt/conda/lib/python3.7/site-packages (from tzlocal->r requirements1.txt (line 166)) (0.2.1)
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

(line 2)) (0.4.5)
Requirement already satisfied: PyQt5-Qt5>=5.15 in /opt/conda/lib/python3.7/site-packages (from pyqt5->r grounding/requirements1.txt (line 20)) (5.15.2)
Requirement already satisfied: PyQt5-sip<13,>=12.8 in /opt/conda/lib/python3.7/site-packages (from pyqt5->r grounding/requirements1.txt (line 20)) (12.9.0)
Requirement already satisfied: PyQtWebEngine-Qt5>=5.15 in /opt/conda/lib/python3.7/site-packages (from pyqtwebengine->r grounding/requirements1.txt (line 21)) (5.15.2)
Requirement already satisfied: charset-normalizer==2.0.0 in /opt/conda/lib/python3.7/site-packages (from requests->r grounding/requirements1.txt (line 24)) (2.0.4)
Requirement already satisfied: wasabi<1.1.0,>=0.4.0 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (0.8.2)
Requirement already satisfied: thinc==7.4.0 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (7.4.0)
Requirement already satisfied: catalogue<1.1.0,>=0.0.7 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (1.0.0)
Requirement already satisfied: preshed<3.1.0,>=3.0.2 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (3.0.5)
Requirement already satisfied: cyemem<2.1.0,>=2.0.2 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (2.0.5)
Requirement already satisfied: murmurhash<1.1.0,>=0.28.0 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (1.0.5)
Requirement already satisfied: srsly<1.1.0,>=1.0.2 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (1.0.5)
Requirement already satisfied: setuptools in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (57.4.0)
Requirement already satisfied: plac<1.2.0,>=0.9.6 in /opt/conda/lib/python3.7/site-packages (from spacy3->r grounding/requirements1.txt (line 25)) (1.1.3)
Requirement already satisfied: blis<0.5.0,>=0.4.0 in /opt/conda/lib/python3.7/site-packages (from spacy->r grounding/requirements1.txt (line 25)) (0.4.1)
Requirement already satisfied: typing-extensions in /opt/conda/lib/python3.7/site-packages (from torch->r grounding/requirements1.txt (line 35)) (3.10.0.0)
Requirement already satisfied: msgpack>=1.0 in /opt/conda/lib/python3.7/site-packages (from wordfreq->r grounding/requirements1.txt (line 38)) (1.0.2)
Requirement already satisfied: ftfy>=3.0 in /opt/conda/lib/python3.7/site-packages (from wordfreq->r grounding/requirements1.txt (line 38)) (6.0.3)
Requirement already satisfied: boto3<1.22.0,>=1.21.27 in /opt/conda/lib/python3.7/site-packages (from boto3<2.0,>=1.14->allennlp->r grounding/requirements1.txt (line 2)) (1.21.27)
Requirement already satisfied: s3transfer<0.6.0,>=0.5.0 in /opt/conda/lib/python3.7/site-packages (from boto3<2.0,>=1.14->allennlp->r grounding/requirements1.txt (line 2)) (0.5.0)
Requirement already satisfied: jmespath<1.0.0,>=0.7.1 in /opt/conda/lib/python3.7/site-packages (from boto3<2.0,>=1.14->allennlp->r grounding/requirements1.txt (line 2)) (0.10.0)
Requirement already satisfied: python-dateutil<3.0.0,>=2.1 in /opt/conda/lib/python3.7/site-packages (from boto3<2.0,>=1.21.27->boto3<2.0,>=1.14->allennlp->r grounding/requirements1.txt (line 2)) (2.8.1)
Requirement already satisfied: importlib-metadata>=0.20 in /opt/conda/lib/python3.7/site-packages (from catalogue<1.1.0,>=0.0.7->spacy->r grounding/requirements1.txt (line 25)) (1.5.0)
Requirement already satisfied: fsspec>=2021.05.0 in /opt/conda/lib/python3.7/site-packages (from datasets<2.0,>=1.2.1->allennlp->r grounding/requirements1.txt (line 2)) (2021.7.0)
Requirement already satisfied: pyarrow<4.0.0,>=1.0.0 in /opt/conda/lib/python3.7/site-packages (from datasets<2.0,>=1.2.1->allennlp->r grounding/requirements1.txt (line 2)) (5.0.0)
Requirement already satisfied: xxhash in /opt/conda/lib/python3.7/site-packages (from datasets<2.0,>=1.2.1->allennlp->r grounding/requirements1.txt (line 2)) (2.0.2)
Requirement already satisfied: multiprocessing in /opt/conda/lib/python3.7/site-packages (from datasets<2.0,>=1.2.1->allennlp->r grounding/requirements1.txt (line 2)) (0.70.12.2)
Requirement already satisfied: pandas in /opt/conda/lib/python3.7/site-packages (from datasets<2.0,>=1.2.1->allennlp->r grounding/requirements1.txt (line 2)) (1.3.2)
Requirement already satisfied: wcwidth in /opt/conda/lib/python3.7/site-packages (from ftfy>=3.0->wordfreq->r grounding/requirements1.txt (line 38)) (0.1.8)
Requirement already satisfied: google-resumable-media<3.0dev,>=1.3.0 in /opt/conda/lib/python3.7/site-packages (from google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (2.0.2)
Requirement already satisfied: google-api-core<3.0dev,>=1.29.0 in /opt/conda/lib/python3.7/site-packages (from google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (2.0.1)
Requirement already satisfied: google-auth<3.0dev,>=1.25.0 in /opt/conda/lib/python3.7/site-packages (from google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (2.0.2)
Requirement already satisfied: google-cloud-core<3.0dev,>=1.6.0 in /opt/conda/lib/python3.7/site-packages (from google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (2.0.0)
Requirement already satisfied: googleapis-common-protos<2.0dev,>=1.6.0 in /opt/conda/lib/python3.7/site-packages (from google-api-core<3.0dev,>=1.29.0->google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (1.53.0)
Requirement already satisfied: protobuf>=3.12.0 in /opt/conda/lib/python3.7/site-packages (from google-api-core<3.0dev,>=1.29.0->google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (3.17.3)
Requirement already satisfied: rsa<5,>=3.1.4 in /opt/conda/lib/python3.7/site-packages (from google-auth<3.0dev,>=1.25.0->google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (4.7.2)
Requirement already satisfied: pyasn1-modules>=0.2.1 in /opt/conda/lib/python3.7/site-packages (from google-auth<3.0dev,>=1.25.0->google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (0.2.8)
Requirement already satisfied: cachetools<5.0,>=2.0.0 in /opt/conda/lib/python3.7/site-packages (from google-auth<3.0dev,>=1.25.0->google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (4.2.2)
Requirement already satisfied: google-crc32c<=1.1.2,>=1.0 in /opt/conda/lib/python3.7/site-packages (from google-resumable-media<3.0dev,>=1.3.0->google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (1.1.2)
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->r grounding/requirements1.txt (line 25)) (2.2.0)
Requirement already satisfied: traitlets>=4.3.1 in /opt/conda/lib/python3.7/site-packages (from ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.3.3)
Requirement already satisfied: nbformat>=4.2.0 in /opt/conda/lib/python3.7/site-packages (from ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (5.0.4)
Requirement already satisfied: widgetsnbextension==3.5.0 in /opt/conda/lib/python3.7/site-packages (from ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.5.1)
Requirement already satisfied: ipython>=4.0.0 in /opt/conda/lib/python3.7/site-packages (from ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (7.12.0)
Requirement already satisfied: ipykernel>=4.5.1 in /opt/conda/lib/python3.7/site-packages (from ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (5.1.4)
Requirement already satisfied: tornado>=4.2 in /opt/conda/lib/python3.7/site-packages (from ipykernel>=4.5.1->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (6.1)
Requirement already satisfied: jupyter-client in /opt/conda/lib/python3.7/site-packages (from ipykernel>=4.5.1->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (7.0.2)
Requirement already satisfied: prompt-toolkit<=3.0.0,!=3.0.1,<3.1.0,>=2.0.0 in /opt/conda/lib/python3.7/site-packages (from ipython>=4.0.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.0.3)
Requirement already satisfied: decorator in /opt/conda/lib/python3.7/site-packages (from ipython>=4.0.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.4.1)
Requirement already satisfied: jedi>=0.10 in /opt/conda/lib/python3.7/site-packages (from ipython>=4.0.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.14.1)
Requirement already satisfied: backcall in /opt/conda/lib/python3.7/site-packages (from ipython>=4.0.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.1.0)
Requirement already satisfied: pickleshare in /opt/conda/lib/python3.7/site-packages (from ipython>=4.0.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.7.5)
Requirement already satisfied: pexpect in /opt/conda/lib/python3.7/site-packages (from ipython>=4.0.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.8.0)
Requirement already satisfied: parso>=0.5.0 in /opt/conda/lib/python3.7/site-packages (from jedi>=0.10->ipython>=4.0.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.5.2)
Requirement already satisfied: qtconsole in /opt/conda/lib/python3.7/site-packages (from jupyter>=1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.6.0)
Requirement already satisfied: jupyter-console in /opt/conda/lib/python3.7/site-packages (from jupyter>=1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (6.1.0)
Requirement already satisfied: notebook in /opt/conda/lib/python3.7/site-packages (from jupyter>=1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (6.4.3)
Requirement already satisfied: nbconvert in /opt/conda/lib/python3.7/site-packages (from jupyter>=1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (5.6.1)
Requirement already satisfied: jsonschema<=2.5.0,>=2.4 in /opt/conda/lib/python3.7/site-packages (from nbformat>=4.2.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.2.0)
Requirement already satisfied: ipython-genutils in /opt/conda/lib/python3.7/site-packages (from nbformat>=4.2.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.2.0)
Requirement already satisfied: jupyter-core in /opt/conda/lib/python3.7/site-packages (from nbformat>=4.2.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.6.1)
Requirement already satisfied: attrs>=17.4.0 in /opt/conda/lib/python3.7/site-packages (from jsonschema<=2.5.0,>=2.4->nbformat>=4.2.0->ipywidgets>=7.5->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (19.3.0)


```
Requirement already satisfied: pyparsing<2.5.0,>=2.4.2 in /opt/conda/lib/python3.7/site-packages (from ipywidgets>=7.5>checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.15.7)
Requirement already satisfied: pyasn1<0.5.0,>=0.4.6 in /opt/conda/lib/python3.7/site-packages (from pyasn1-modules>0.2.1->google-auth<3.0dev,>=1.2.5.0->google-cloud-storage<1.43.0,>=1.38.0->allennlp->r grounding/requirements1.txt (line 2)) (0.4.8)
Requirement already satisfied: pillow<5.3.0 in /opt/conda/lib/python3.7/site-packages (from torchvision<0.11.0,>=0.8.1->allennlp->r grounding/requirements1.txt (line 2)) (8.3.1)
Requirement already satisfied: tokenizers<0.11,>=0.10.1 in /opt/conda/lib/python3.7/site-packages (from transformers<4.10,>=4.1->allennlp->r grounding/requirements1.txt (line 2)) (0.10.3)
Requirement already satisfied: sacremoses in /opt/conda/lib/python3.7/site-packages (from transformers<4.10,>=4.1->allennlp->r grounding/requirements1.txt (line 2)) (0.0.45)
Requirement already satisfied: pyyaml<5.1 in /opt/conda/lib/python3.7/site-packages (from transformers<4.10,>=4.1->allennlp->r grounding/requirements1.txt (line 2)) (5.4.1)
Requirement already satisfied: GitPython<1.0.0 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (3.1.18)
Requirement already satisfied: pathtools in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (0.1.2)
Requirement already satisfied: promise<3,>=2.0 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (2.3)
Requirement already satisfied: psutil<5.0.0 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (5.6.7)
Requirement already satisfied: shortuuid<0.5.0 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (1.0.1)
Requirement already satisfied: sentry-sdk<1.0.0 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (1.3.1)
Requirement already satisfied: docker-pycreds<0.4.0 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (0.4.0)
Requirement already satisfied: configparser<3.8.1 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (5.0.2)
Requirement already satisfied: subprocess32<3.5.3 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (3.5.4)
Requirement already satisfied: Click<8.0.0,>=7.0 in /opt/conda/lib/python3.7/site-packages (from wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (7.0)
Requirement already satisfied: gitdb<5,>=4.0.1 in /opt/conda/lib/python3.7/site-packages (from GitPython<1.0.0->wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (4.0.7)
Requirement already satisfied: smmap<5,>=3.0.1 in /opt/conda/lib/python3.7/site-packages (from gitdb<5,>=4.0.1->GitPython<1.0.0->wandb<0.13.0,>=0.10.0->allennlp->r grounding/requirements1.txt (line 2)) (4.0.0)
Requirement already satisfied: terminado<0.8.3 in /opt/conda/lib/python3.7/site-packages (from notebook->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.8.3)
Requirement already satisfied: prometheus-client in /opt/conda/lib/python3.7/site-packages (from notebook->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.7.1)
Requirement already satisfied: Send2Trash<1.5.0 in /opt/conda/lib/python3.7/site-packages (from notebook->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (1.5.0)
Requirement already satisfied: pyzmq<17 in /opt/conda/lib/python3.7/site-packages (from notebook->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (18.1.1)
Requirement already satisfied: argon2-cffi in /opt/conda/lib/python3.7/site-packages (from notebook->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (20.1.0)
Requirement already satisfied: nest-asyncio<1.5 in /opt/conda/lib/python3.7/site-packages (from jupyter-client->ipykernel<4.5.1->ipywidgets>=7.5>checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (1.5.1)
Requirement already satisfied: entrypoints in /opt/conda/lib/python3.7/site-packages (from jupyter-client->ipykernel<4.5.1->ipywidgets>=7.5>checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.3)
Requirement already satisfied: mistune<2,>=0.8.1 in /opt/conda/lib/python3.7/site-packages (from nbconvert->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.8.4)
Requirement already satisfied: bleach in /opt/conda/lib/python3.7/site-packages (from nbconvert->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.0.0)
Requirement already satisfied: testpath in /opt/conda/lib/python3.7/site-packages (from nbconvert->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.4.4)
Requirement already satisfied: pandocfilters<1.4.1 in /opt/conda/lib/python3.7/site-packages (from nbconvert->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (1.4.2)
Requirement already satisfied: defusedxml in /opt/conda/lib/python3.7/site-packages (from nbconvert->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.6.0)
Requirement already satisfied: webencodings in /opt/conda/lib/python3.7/site-packages (from bleach->nbconvert->jupyter<1.0->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.5.1)
Requirement already satisfied: pdfminer.six in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (20201018)
Requirement already satisfied: lxml in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.6.3)
Requirement already satisfied: feedparser in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (6.0.8)
Requirement already satisfied: python-docx in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.8.11)
Requirement already satisfied: future in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.18.2)
Requirement already satisfied: BeautifulSoup4 in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.8.2)
Requirement already satisfied: cherrypy in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (18.6.1)
Requirement already satisfied: backports.csv in /opt/conda/lib/python3.7/site-packages (from patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (1.0.7)
Requirement already satisfied: soupsieve<1.2 in /opt/conda/lib/python3.7/site-packages (from BeautifulSoup4->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (1.9.5)
Requirement already satisfied: portend<2.1.1 in /opt/conda/lib/python3.7/site-packages (from cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (2.7.1)
Requirement already satisfied: cheroot<8.2.1 in /opt/conda/lib/python3.7/site-packages (from cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (8.5.2)
Requirement already satisfied: zc.lockfile in /opt/conda/lib/python3.7/site-packages (from cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (2.0)
Requirement already satisfied: jaraco.collections in /opt/conda/lib/python3.7/site-packages (from cheroot<8.2.1->cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.4.0)
Requirement already satisfied: jaraco.funcitools in /opt/conda/lib/python3.7/site-packages (from cheroot<8.2.1->cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.3.0)
Requirement already satisfied: tempora<1.8 in /opt/conda/lib/python3.7/site-packages (from portend<2.1.1->cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (4.1.1)
Requirement already satisfied: sgmlib3k in /opt/conda/lib/python3.7/site-packages (from feedparser->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (1.0.0)
Requirement already satisfied: jaraco.classes in /opt/conda/lib/python3.7/site-packages (from jaraco.collections->cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.2.1)
Requirement already satisfied: jaraco.text in /opt/conda/lib/python3.7/site-packages (from jaraco.collections->cherrypy->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.5.1)
Requirement already satisfied: cryptography in /opt/conda/lib/python3.7/site-packages (from pdfminer.six->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (3.4.7)
Requirement already satisfied: sortedcontainers in /opt/conda/lib/python3.7/site-packages (from pdfminer.six->patternfork-nosql->checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (2.1.0)
Requirement already satisfied: ptyprocess<0.5 in /opt/conda/lib/python3.7/site-packages (from pexpect->python<4.0.0->ipywidgets>=7.5>checklist==0.0.11->allennlp->r grounding/requirements1.txt (line 2)) (0.6.0)
Requirement already satisfied: py<1.5.0 in /opt/conda/lib/python3.7/site-packages (from pytest->allennlp->r grounding/requirements1.txt (line 2)) (1.10.0)
Requirement already satisfied: pluggy<1.0,>=0.12 in /opt/conda/lib/python3.7/site-packages (from pytest->allennlp->r grounding/requirements1.txt (line 2)) (0.13.1)
Requirement already satisfied: joblib in /opt/conda/lib/python3.7/site-packages (from sacremoses->transformers<4.10,>=4.1->allennlp->r grounding/requirements1.txt (line 2)) (0.14.1)
Building wheels for collected packages: checklist, fairscale, wordfreq, jsonnet
  Building wheel for checklist (setup.py) ... done
  Created wheel for checklist: filename=checklist-0.0.11-py3-none-any.whl size=12165634 sha256=5dce8b8e80e59402cca0917f86ce1dda08c414a879d6d99af7af91381c2e
  Stored in directory: /tmp/pip-ephem-wheel-cache-icpo55ji/wheels/6a/8a/07/6446879be434879c27671c83443727d74cec6b30c8a24d03
  Building wheel for fairscale (PEP 517) ... done
  Created wheel for fairscale: filename=fairscale-0.4.0-py3-none-any.whl size=239949 sha256=a51a1d27fe1ee067f5688c68039084c5f6de18bc08b183b5c8dfdd51b1547
  Stored in directory: /tmp/pip-ephem-wheel-cache-icpo55ji/wheels/28/8e/a3/7a2f3ac996114b816d88e55c1235a1e058f30211e39bd719
  Building wheel for wordfreq (setup.py) ... done
  Created wheel for wordfreq: filename=wordfreq-2.5.1-py2-none-any.whl size=5829003 sha256=4c674405c0458c60a9e0f273f0e02611a4c46de7554634140f6
```

```
Created wheel for wordfreq: filename=wordfreq-2.3.1-py3-none-any.whl size=3683692 sha256=4067400d5b30e0a0c15570ee201a4c0a0a73060740051a
32323394
Stored in directory: /tmp/pip-ephem-wheel-cache-icp055ji/wheels/d8/d4/2d/741daa49d00231b45afbc15e79f361d9e76961f1a5fc02e5
Building wheel for jsonnet (setup.py) ... error
ERROR: Command errored out with exit status 1:
  command: /opt/conda/bin/python -u -c 'import io, os, sys, setuptools, tokenize; sys.argv[0] = ''''/tmp/pip-install-01oi7zpl/jsonnet_293083cbd239
48b6bcb8e62de5f2628/setup.py''''; __file__ = ''''/tmp/pip-install-01oi7zpl/jsonnet_293083cbd23948b6bcb8e62de5f2628/setup.py''''; f = getattr(token
ize, ''''open''''), open(__file__) if os.path.exists(__file__) else io.StringIO('''''from setuptools import setup; setup()'''''); code = f.read().r
eplace('''''\r\n'''' , ''''\n''''); f.close(); exec(compile(code, __file__, ''''exec''''))' bdist_wheel -d /tmp/pip-wheel-zfk1rd1k
  cwd: /tmp/pip-install-01oi7zpl/jsonnet_293083cbd23948b6bcb8e62de5f2628/
Complete output (4 lines):
running bdist_wheel
running build
running build_ext
error: [Errno 2] No such file or directory: 'make': 'make'
-----
ERROR: Failed building wheel for jsonnet
Running setup.py clean for jsonnet
Successfully built checklist fairscale wordfreq
Failed to build jsonnet
Installing collected packages: jsonnet, google-cloud-storage, fairscale, datasets, checklist, base58, xmlltodict, wordfreq, pyqtwebengine, jsonlines,
allennlp
Running setup.py install for jsonnet ... error
ERROR: Command errored out with exit status 1:
  command: /opt/conda/bin/python -u -c 'import io, os, sys, setuptools, tokenize; sys.argv[0] = ''''/tmp/pip-install-01oi7zpl/jsonnet_293083cbd2
3948b6bcb8e62de5f2628/setup.py''''; __file__ = ''''/tmp/pip-install-01oi7zpl/jsonnet_293083cbd23948b6bcb8e62de5f2628/setup.py''''; f = getattr(tok
enize, ''''open''''), open(__file__) if os.path.exists(__file__) else io.StringIO('''''from setuptools import setup; setup()'''''); code = f.read
().replace('''''\r\n'''' , ''''\n''''); f.close(); exec(compile(code, __file__, ''''exec''''))' install --record /tmp/pip-record-1bn2_f/install-
record.txt --single-version-externally-managed --compile --install-headers /opt/conda/include/python3.7m/jsonnet
  cwd: /tmp/pip-install-01oi7zpl/jsonnet_293083cbd23948b6bcb8e62de5f2628/
Complete output (4 lines):
running install
running build
running build_ext
error: [Errno 2] No such file or directory: 'make': 'make'
-----
ERROR: Command errored out with exit status 1: /opt/conda/bin/python -u -c 'import io, os, sys, setuptools, tokenize; sys.argv[0] = ''''/tmp/pip-in
stall-01oi7zpl/jsonnet_293083cbd23948b6bcb8e62de5f2628/setup.py''''; __file__ = ''''/tmp/pip-install-01oi7zpl/jsonnet_293083cbd23948b6bcb8e62de5f2
628/setup.py''''; f = getattr(tokenize, ''''open''''), open(__file__) if os.path.exists(__file__) else io.StringIO('''''from setuptools import set
up; setup()'''''); code = f.read().replace('''''\r\n'''' , ''''\n''''); f.close(); exec(compile(code, __file__, ''''exec''''))' install --record /t
mp/pip-record-1bn2_f/install-record.txt --single-version-externally-managed --compile --install-headers /opt/conda/include/python3.7m/jsonnet Chec
k the logs for full command output.
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_byte
s 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 in
stead
  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)
    | 65.3 MB 17.2 MB/s eta 0:00:45 | 827.9 MB 105.0 MB/s eta 0:00:01 | 25.6 MB 6.1 MB/s eta 0:02:12 | 170.1 M
B 65.9 MB/s eta 0:00:10 | 296.9 MB 29.1 MB/s eta 0:00:19 | 592.7 MB 28.8 MB/s eta 0:00:09 | 335.5 MB 29.1 M
B/s eta 0:00:17 | 343.4 MB 29.1 MB/s eta 0:00:17 | 803.7 MB 98.0 MB/s eta 0:00:01 | 809.1 MB 98.0 MB/s eta 0:00:01
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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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: 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_co
re_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: 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)
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: 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: 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_c
ore_web_lg==2.2.5) (2.0.4)
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommende
d 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')
```

```
[6]: # Downloads

# Download all files from https://drive.google.com/drive/u/1/folders/16347KHSLoJZ1IbgC9V5gH7_pRk0CzjPQ
# and place in 'csgk/output' folder

# Move BERT embeddings ('bert_nli_large_w2v_format.txt.gz') to 'csgk/output/embeddings'

# wget https://conceptnet.s3.amazonaws.com/downloads/2019/numberbatch/numberbatch-19.08.txt.gz -P output/embeddings/

# lgunzip -k output/*.txt.gz
# lgunzip -k output/*.tsv.gz
# lgunzip -k output/embeddings/*.txt.gz
```


