Loss & Damage (Article 3)

December 12, 2017

In [1]: from datascience import *
 import spacy

```
% matplotlib inline
In [2]: !python -m spacy download en
      Downloading en_core_web_sm-1.2.0/en_core_web_sm-1.2.0.tar.gz
Collecting https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-1.2.0/en
   Downloading https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-1.2.0
       100% || 52.2MB 85.7MB/s ta 0:00:011
   Requirement already satisfied (use --upgrade to upgrade): en-core-web-sm==1.2.0 from https://
Requirement already satisfied: spacy<2.0.0,>=1.7.0 in /srv/app/venv/lib/python3.6/site-package
Requirement already satisfied: numpy>=1.7 in /srv/app/venv/lib/python3.6/site-packages (from s
Requirement already satisfied: murmurhash<0.27,>=0.26 in /srv/app/venv/lib/python3.6/site-pack
Requirement already satisfied: cymem<1.32,>=1.30 in /srv/app/venv/lib/python3.6/site-packages
Requirement already satisfied: preshed<2.0.0,>=1.0.0 in /srv/app/venv/lib/python3.6/site-package
Requirement already satisfied: thinc<6.6.0,>=6.5.0 in /srv/app/venv/lib/python3.6/site-package
Requirement already satisfied: plac<1.0.0,>=0.9.6 in /srv/app/venv/lib/python3.6/site-packages
Requirement already satisfied: pip<10.0.0,>=9.0.0 in /srv/app/venv/lib/python3.6/site-packages
Requirement already satisfied: six in /srv/app/venv/lib/python3.6/site-packages (from spacy<2.
Requirement already satisfied: pathlib in /srv/app/venv/lib/python3.6/site-packages (from space)
Requirement already satisfied: ujson>=1.35 in /srv/app/venv/lib/python3.6/site-packages (from s
Requirement already satisfied: dill<0.3,>=0.2 in /srv/app/venv/lib/python3.6/site-packages (from
Requirement already satisfied: requests<3.0.0,>=2.13.0 in /srv/app/venv/lib/python3.6/site-pac
Requirement already satisfied: regex<2017.12.1,>=2017.4.1 in /srv/app/venv/lib/python3.6/site-
Requirement already satisfied: ftfy<5.0.0,>=4.4.2 in /srv/app/venv/lib/python3.6/site-packages
Requirement already satisfied: wrapt in /srv/app/venv/lib/python3.6/site-packages (from thinc<
Requirement already satisfied: tqdm<5.0.0,>=4.10.0 in /srv/app/venv/lib/python3.6/site-package
Requirement already satisfied: cytoolz<0.9,>=0.8 in /srv/app/venv/lib/python3.6/site-packages
Requirement already satisfied: termcolor in /srv/app/venv/lib/python3.6/site-packages (from th
Requirement already satisfied: urllib3<1.23,>=1.21.1 in /srv/app/venv/lib/python3.6/site-packa
Requirement already satisfied: certifi>=2017.4.17 in /srv/app/venv/lib/python3.6/site-packages
Requirement already satisfied: chardet<3.1.0,>=3.0.2 in /srv/app/venv/lib/python3.6/site-packa
Requirement already satisfied: idna<2.7,>=2.5 in /srv/app/venv/lib/python3.6/site-packages (from the control of the control of
```

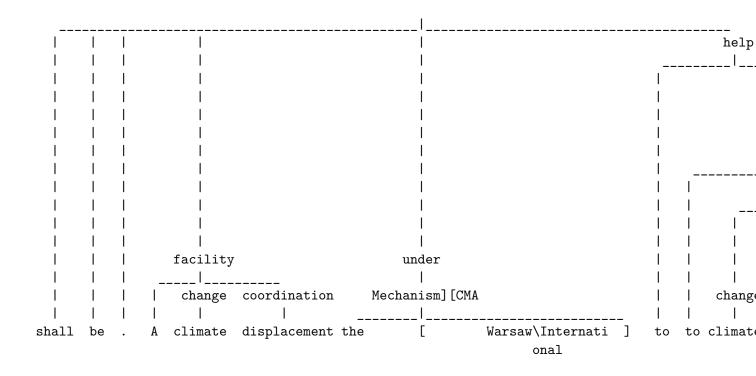
Requirement already satisfied: html5lib in /srv/app/venv/lib/python3.6/site-packages (from ftf

```
Requirement already satisfied: wcwidth in /srv/app/venv/lib/python3.6/site-packages (from ftfy
Requirement already satisfied: toolz>=0.8.0 in /srv/app/venv/lib/python3.6/site-packages (from
Requirement already satisfied: setuptools>=18.5 in /srv/app/venv/lib/python3.6/site-packages (
Requirement already satisfied: webencodings in /srv/app/venv/lib/python3.6/site-packages (from
   Linking successful
    /srv/app/venv/lib/python3.6/site-packages/en_core_web_sm/en_core_web_sm-1.2.0
    --> /srv/app/venv/lib/python3.6/site-packages/spacy/data/en
    You can now load the model via spacy.load('en').
In [3]: import spacy
        from nltk import Tree
In [4]: en_nlp=spacy.load('en')
        doc =en_nlp("""3. Parties should enhance understanding, action and support, including
        the Warsaw International Mechanism, as appropriate, on a cooperative and\
        facilitative basis with respect to loss and damage associated with the adverse\
        effects of climate change. """ )
        def to_nltk_tree(node):
            if node.n_lefts + node.n_rights > 0:
                return Tree(node.orth_, [to_nltk_tree(child) for child in node.children])
            else:
                return node.orth_
```

[to_nltk_tree(sent.root).pretty_print() for sent in doc.sents]

enhance

established



Out[5]: [None, None]