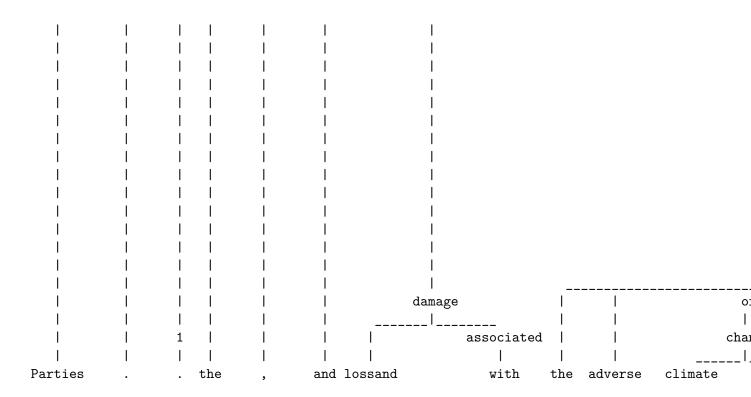
## Loss & Damage (Article 1)

## December 12, 2017

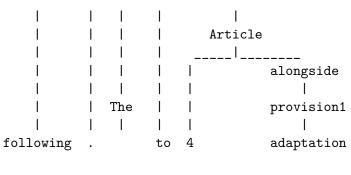
In [1]: from datascience import \*
 import spacy

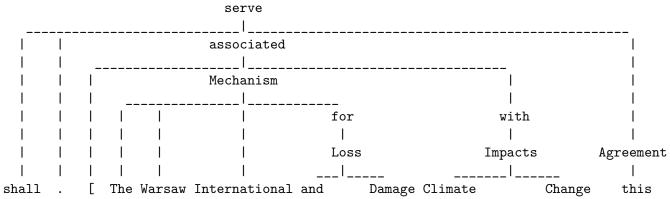
```
% matplotlib inline
In [2]: !python -m spacy download en
   Downloading en_core_web_sm-1.2.0/en_core_web_sm-1.2.0.tar.gz
Collecting https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-1.2.0/en
 Downloading https://github.com/explosion/spacy-models/releases/download/en_core_web_sm-1.2.0
    100% || 52.2MB 91.6MB/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: 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 (free
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: 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: webencodings 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 (
   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
  Loss & Damage (Final)
In [5]: en_nlp=spacy.load('en')
        doc =en_nlp("""1. Parties recognize the importance of averting, minimizing and address
        and damage associated with the adverse effects of climate change, including\
        extreme weather events and slow onset events, and the role of sustainable\
        development in reducing the risk of loss and damage. """ )
        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]
        recognize
                          importance
                                            of
                                         averting
                                                                         minimizing
```



of





Out[4]: [None, None]