Extraction from 159 Legal Court Documents

1. Process PDF documents using `Python`

Ipython Notebook	Description
`1.Extraction by LexNLP.ipynb`	Extract meta inforation use `LexNLP` package.
`2.Layer Analysis on Sigle File.ipynb`	Use `pdfminer` to extract the raw text and the *paragraph segamentation* in the PDF document.
`3.Patent Position by Layer.ipynb`	Identify the position of patent number in extracted layers from PDF.
`4.Opinion and Author by Layer.ipynb`	Extract opinion text, author, decisions from the layers list.
`5.Wrap up to Meta Data.ipynb`	Store extracted meta data to `.json` or `.csv`
`6.Visualize citation frequency.ipynb`	Bar plot of the citation frequencies

2. Data generated by `Python`

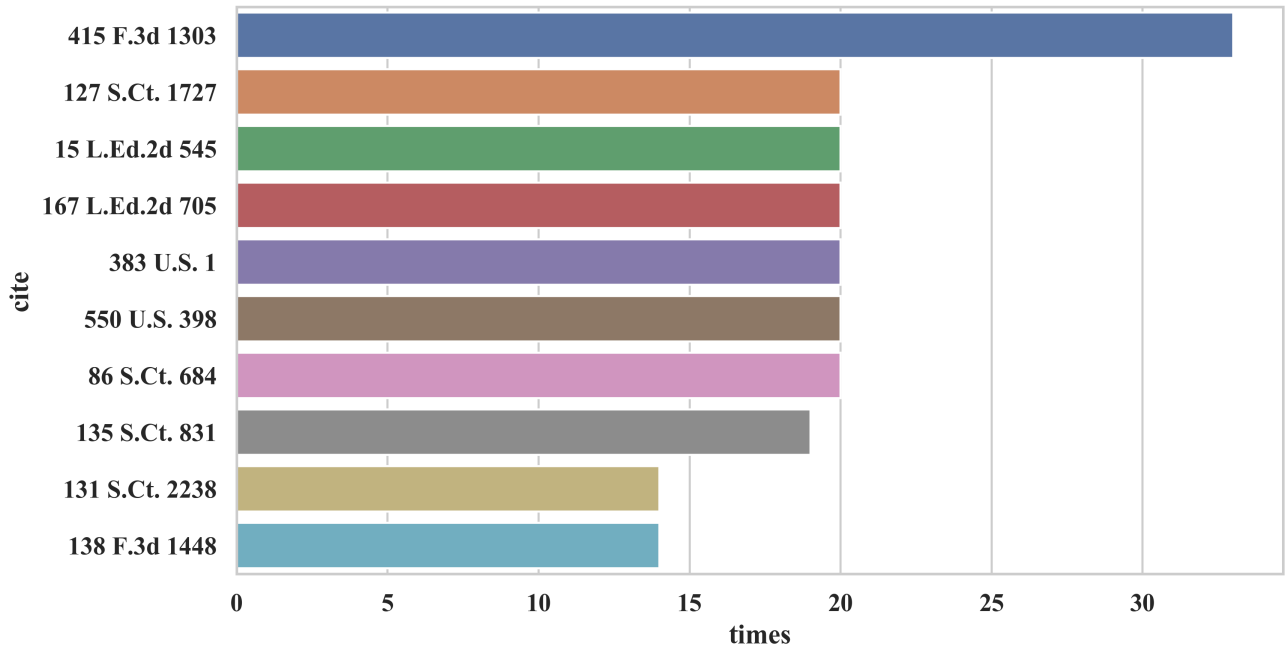
File	
`pdf2text159.json`	A dictionary of 3 list: `file_name`, `raw_text`, `layers`.
`cite_edge159.csv`	Edge list of citation network
`cite_node159.csv`	Meta information of each case: `case_number`, `court`, `dates`
`reference_extract.csv`	cited cases in a list for every case, untidy format for analysis
`citation159`	file citation pair, tidy format for calculation
`regulation159`	file regulation pair, tidy format for calculation

3. Analyze and Visualize using `R`

File	
`Calculate Citation Frequency.Rmd`	Analyze `reference_extract.csv`
`Citation Network.Rmd`	Analyze `cite_edge159`

4. Visulization Chart

Citation Frequency



Citation Network