

# Minicycle.en

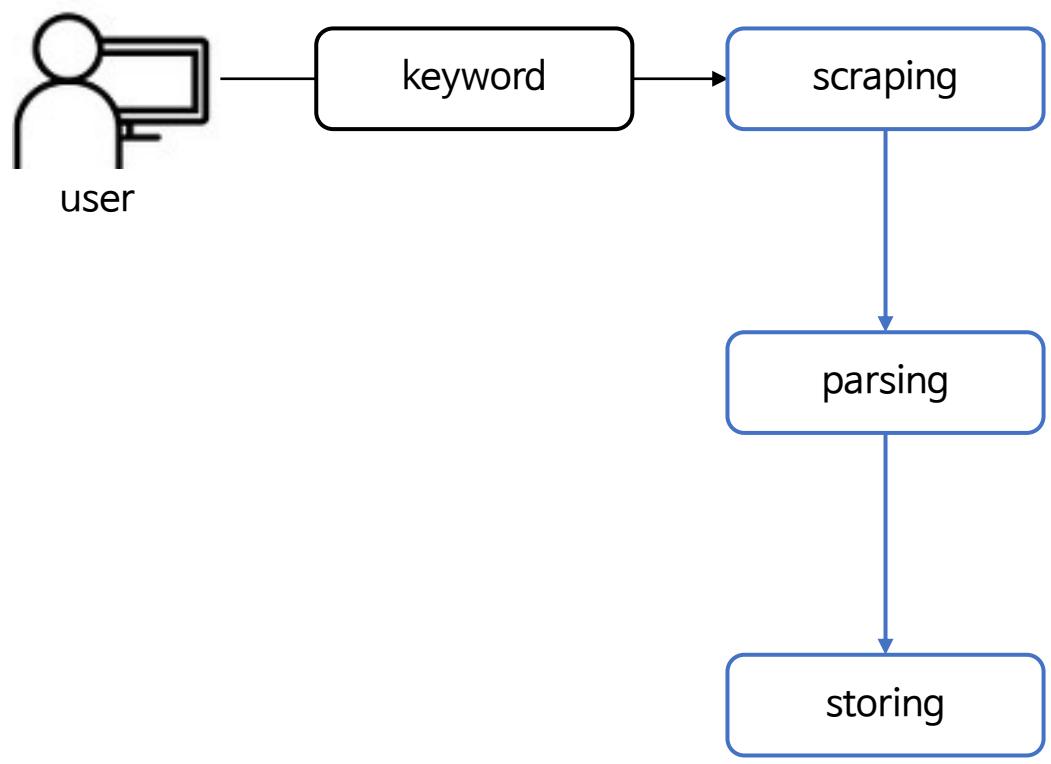
20210730

# Self

```
>>> class MyClass():
...     def func_without_self():
...         print('function WITHOUT self')
...     def func_with_self(self):
...         print('function WITH self')
...
>>> myclass = MyClass()
>>> myclass.func_with_self()
function WITH self
>>> myclass.func_without_self()
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
TypeError: func_without_self() takes no arguments (1 given)
```

```
>>> id(myclass)
4517734736
>>> myclass_new = MyClass()
>>> id(myclass_new)
4517735024
>>> def print_id(self):
...     print(id(self))
...
>>> MyClass.print_id = print_id
>>> myclass.print_id()
4517734736
>>> myclass_new.print_id()
4517735024
```

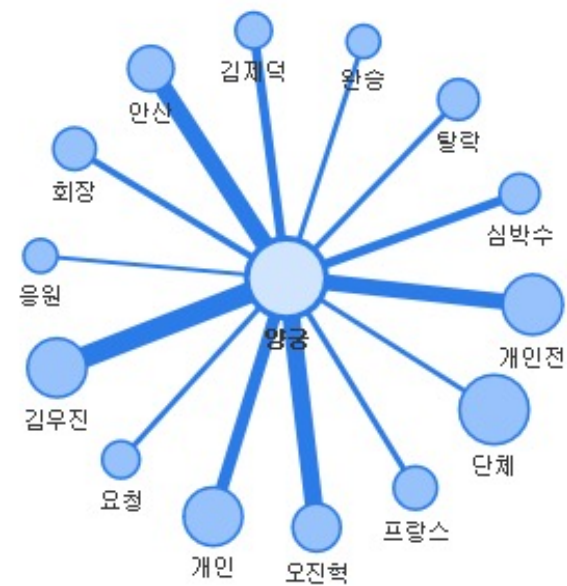
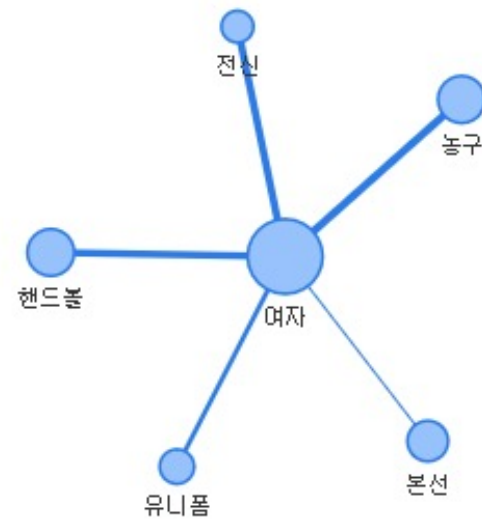
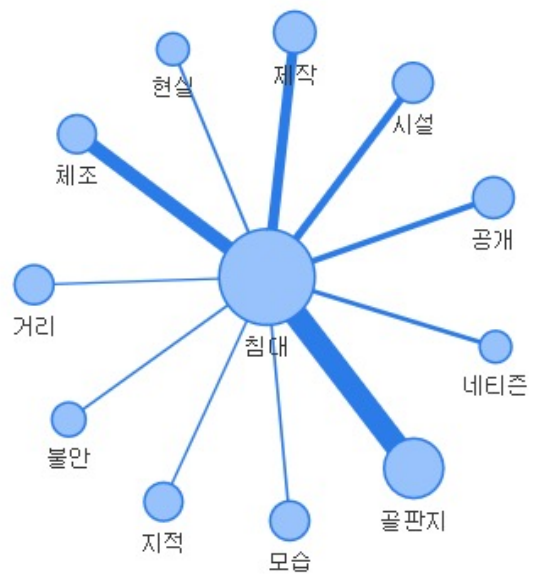
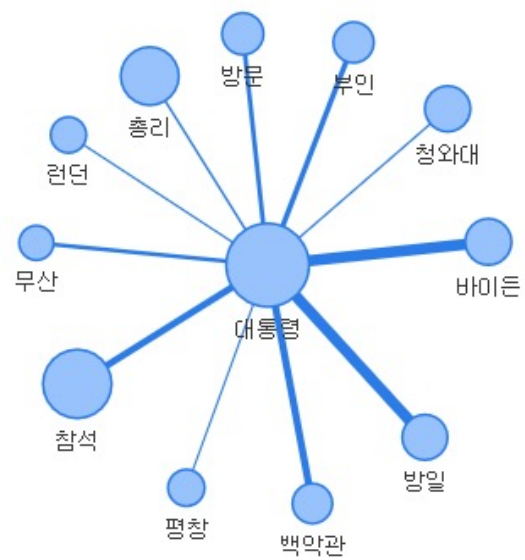
# Tenders



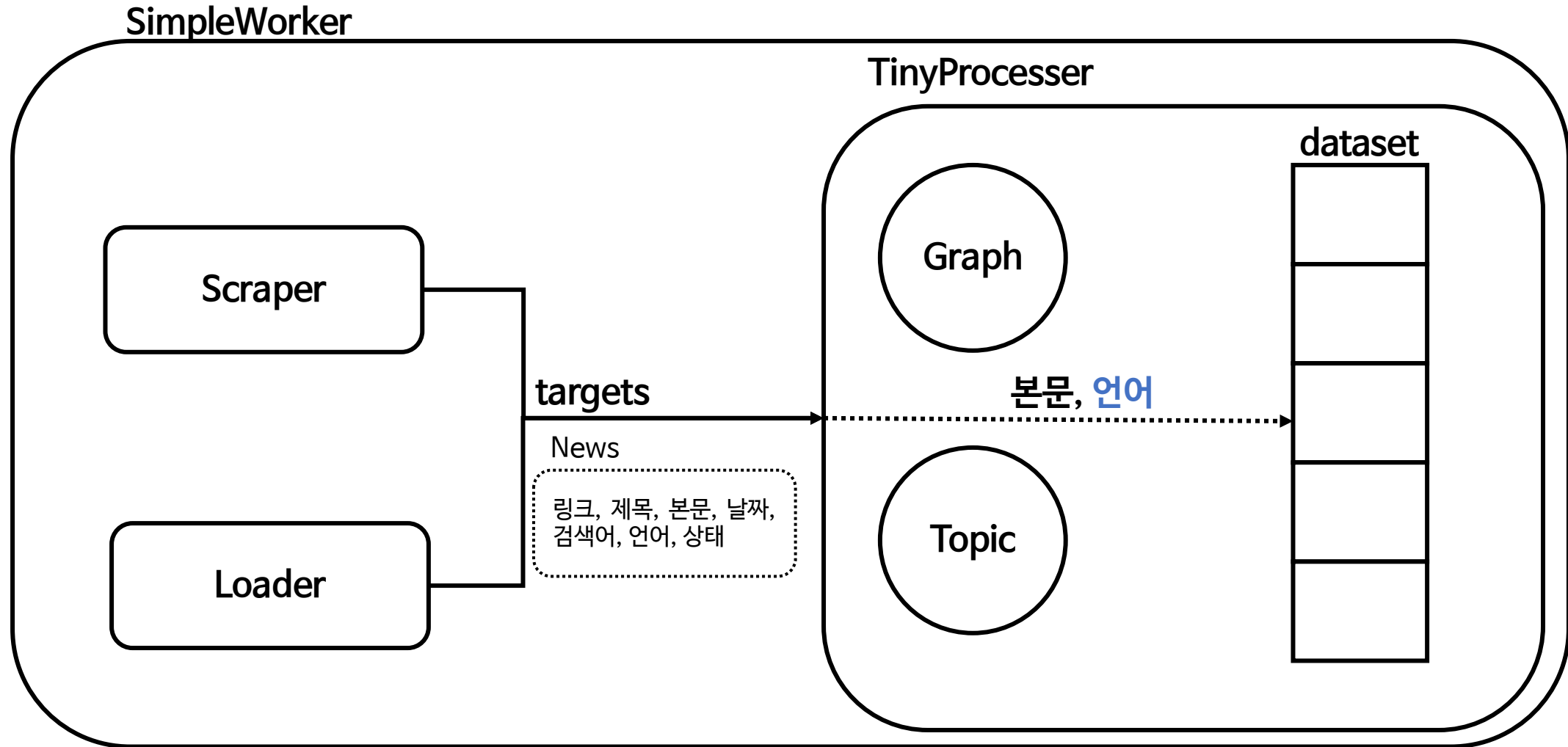
<input type="checkbox"/>		
Summary:	Spain-madrid: Printing And Graphics Equipment	
Authority Name:	Upgrade to view	
Sector:	Printing and publishing	
Country :	Switzerland	Action Deadline: 21 Oct 2021
Notice Type :	Contract Awards	

```
{
  "@context": "https://schema.org",
  "@type": "Event",
  "url": "https://www.globaltenders.com/full-detail/464043065",
  "image": "https://www.globaltenders.com/new-gt/tenders/assets/user/new/img/global-tenders-logo.png",
  "name": "Private Company",
  "description": "Spain-madrid: Printing And Graphics Equipment",
  "identifier": "464043065",
  "startDate": "Jul 21, 2021",
  "endDate": "Oct 21, 2021",
  "location": {
    "@type": "Place",
    "address": {
      "@type": "PostalAddress",
      "addressLocality": "",
      "addressRegion": "",
      "postalCode": "",
      "addressCountry": "Switzerland"
    },
    "name": "Private Company"
  },
  "offers": {
    "@type": "Offer",
    "name": "Spain-madrid: Printing And Graphics Equipment",
    "priceCurrency": "EUR",
    "price": "0",
    "validFrom": "Jul 21, 2021",
    "availability": "https://schema.org/LimitedAvailability",
    "url": "https://www.globaltenders.com/full-detail/464043065",
    "validThrough": "Oct 21, 2021"
  }
}
```

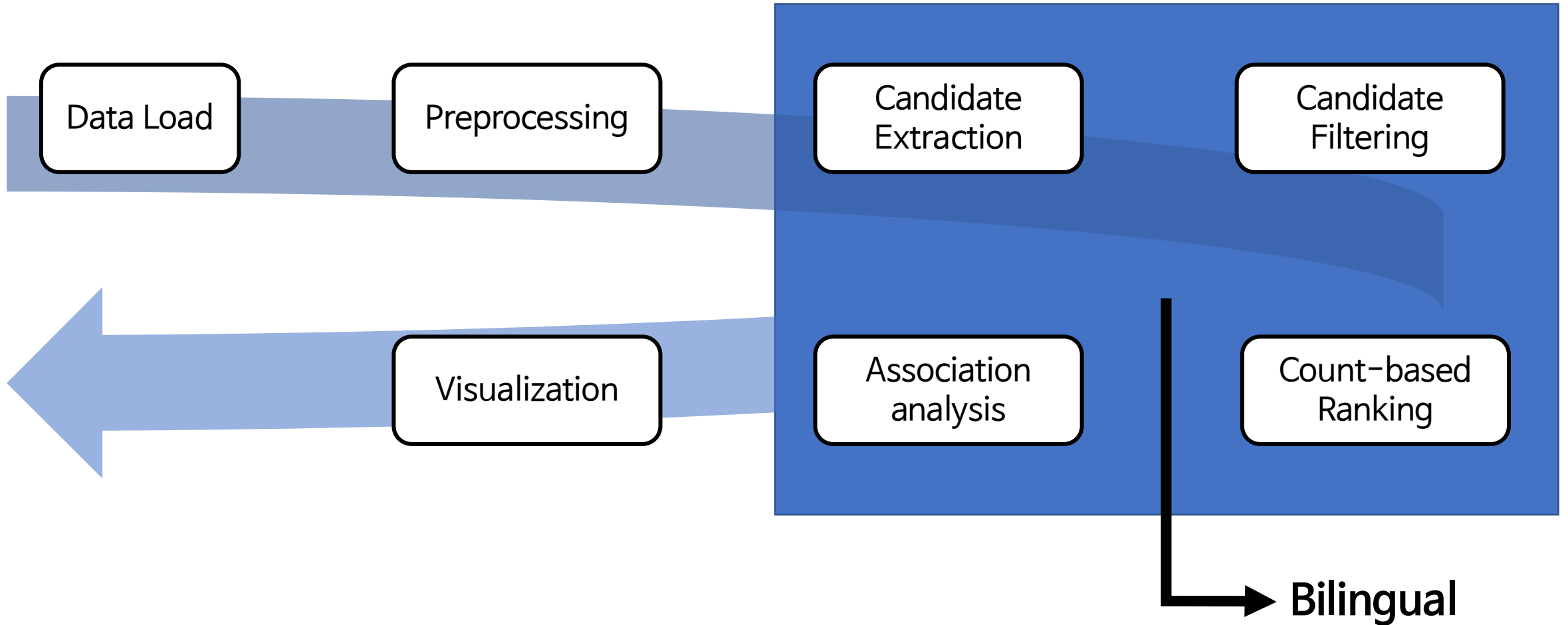
id		description	country	endDate	startDate	priceCurrency	price
464,181,330		Supply Of myipzspack Casket Boxes For Iconic Coi...	Italy	2021-08-09	2021-07-27	EUR	0
464,088,190		Management And Supply Of Christmas Baskets For...	Spain	2021-09-08	2021-07-23	EUR	229,100
464,043,065		Spain-madrid: Printing And Graphics Equipment	Switzerland	2021-10-21	2021-07-21	EUR	0
464,033,120		Providing Of Chairs At Lmrc Section, Mpp Section ...	India	2021-07-28	2021-07-21	INR	344,269
464,025,761		1 Electric Furnace	Japan	2021-09-13	2021-07-21	JPY	0
463,974,274		Assignment Of Scheduled Maintenance Service, Br...	Italy	2021-07-29	2021-07-19	EUR	0



# Architecture



# Workflow



# Candidate Selection

- 한국어: soynlp - LRNounExtractor ver.2
- 영어: spacy - NER(Named Entity Recognition) & Noun chunk
- NER

In fact, the **Chinese** **NORP** market has the **three** **CARDINAL** most influential names of the retail and tech space - **Alibaba** **GPE**, **Baidu** **ORG**, and **Tencent** **PERSON** (collectively touted as **BAT** **ORG**), and is betting big in the global **AI** **GPE** in retail industry space. The **three** **CARDINAL** giants which are claimed to have a cut-throat competition with the **U.S.** **GPE** (in terms of resources and capital) are positioning themselves to become the 'future **AI** **PERSON** platforms'. The trio is also expanding in other **Asian** **NORP** countries and investing heavily in the **U.S.** **GPE** based **AI** **GPE** startups to leverage the power of **AI** **GPE**. Backed by such powerful initiatives and presence of these conglomerates, the market in APAC AI is forecast to be the fastest-growing **one** **CARDINAL**, with an anticipated **CAGR** **PERSON** of **45%** **PERCENT** over **2018 - 2024** **DATE**.

To further elaborate on the geographical trends, **North America** **LOC** has procured **more than 50%** **PERCENT** of the global share in **2017** **DATE** and has been leading the regional landscape of **AI** **GPE** in the retail market. The **U.S.** **GPE** has a significant credit in the regional trends with **over 65%** **PERCENT** of investments (including M&As, private equity, and venture capital) in artificial intelligence technology. Additionally, the region is a huge hub for startups in tandem with the presence of tech titans, such as **Google** **ORG**, **IBM** **ORG**, and **Microsoft** **ORG**.

SYSTEM	TYPE	NER F	ABSOLUTE (MS PER DOC)		
SYSTEM	TOKENIZE	TAG	PARSE		
spaCy en_core_web_sm (2017)	neural	85.67	spaCy	0.2ms	1ms
spaCy en_core_web_lg (2017)	neural	86.42			
Strubell et al. (2017)	neural	<b>86.81</b>	CoreNLP	0.18ms	10ms
Chiu and Nichols (2016)	neural	86.19			
Durrett and Klein (2014)	neural	84.04	ZPar	1ms	8ms
Ratinov and Roth (2009)	linear	83.45	NLTK	4ms	443ms
					n/a



# Visualize

- **Wordcloud**
  - wordcloud
- **Network**
  - Networkx
  - + pyvis
  - + ?

