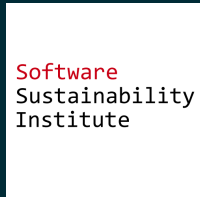
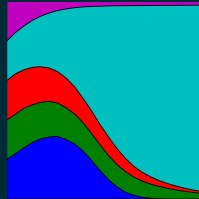
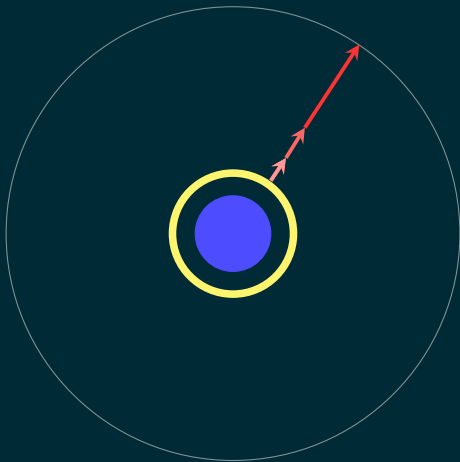


Accessing open research literature with Python

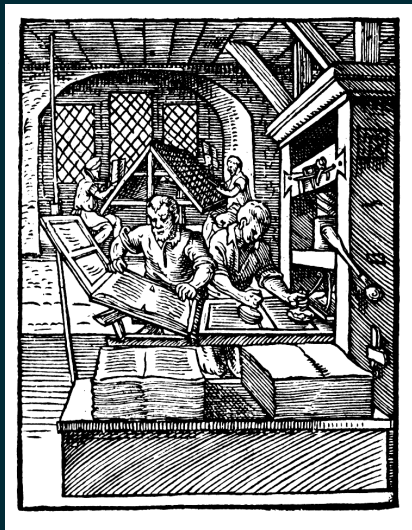
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$$100 \times (0.5 \text{ min} + 1.5 \text{ min}) + 10 \times (0.5 \text{ min}) =$$
$$110 \text{ min} \Rightarrow 1 \text{ h and } 50 \text{ min}$$

API

'QUERY'

<http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?>

'QUERY'

`http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?`

`...ti=Namibia`

'QUERY'

```
http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?
```

```
...ti=Namibia
```

```
...ti=Namibia&hc=100
```

'RESULTS'

```
|--<root>
  |- ...
|-<document>
  |-<rank>1</rank>
  |-<title>
    |-<![CDATA[
      Implementation of 220 ...]]>
  |-</title>
  |-<authors>
    |- ...
  |- ...
|-</document>
|-<document>
```

$$15min + 1min + 50min = 66min \Rightarrow 1h \text{ and } 6min$$

API₂

Query

...

API₁

Query

...

API₃

Query

...

API₆

Query

...

API₄

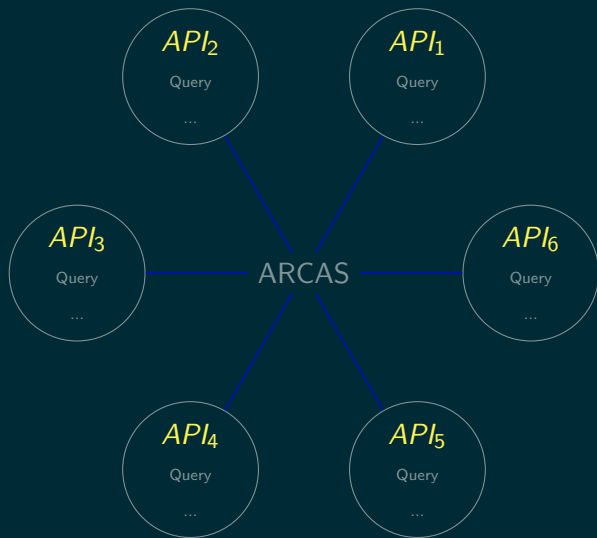
Query

...

API₅

Query

...



```
pip install arcas
```

```
import pandas as pd
from arcas import *

def get_arguments(word, start, count):
    arguments = {'-a': None, '-t': word, '-s': start,
                 '-r': count, '-y': None, '-b': None}
    return arguments

def main_program(arguments):
    parameters = pp.parameters_fix(arguments=arguments)
    url = pp.create_url_search(parameters=parameters)
    response = pp.make_request(url)
    root = pp.get_root(response)
    article = pp.parse(root)
    return article, url

words = ["Namibia"]

apis = {"ieee": Ieee, "nature": Nature, "arxiv": Arxiv,
        "springer": Springer, "plos": Plos}
list_apis = ['plos', 'arxiv', 'ieee', 'nature', 'springer']
count = 10
```

```
for p in list_apis:
    pp = apis[p]()
    start = 1
    while start < 100:
        arguments = get_arguments(words[0], start, count)
        raw_articles, url = main_program(arguments)

        dfs = []
        if raw_articles is not False:
            for raw_article in raw_articles:
                try:
                    df = pp.to_dataframe(raw_article)
                    dfs.append(df)
                except ValueError:
                    ValueError()

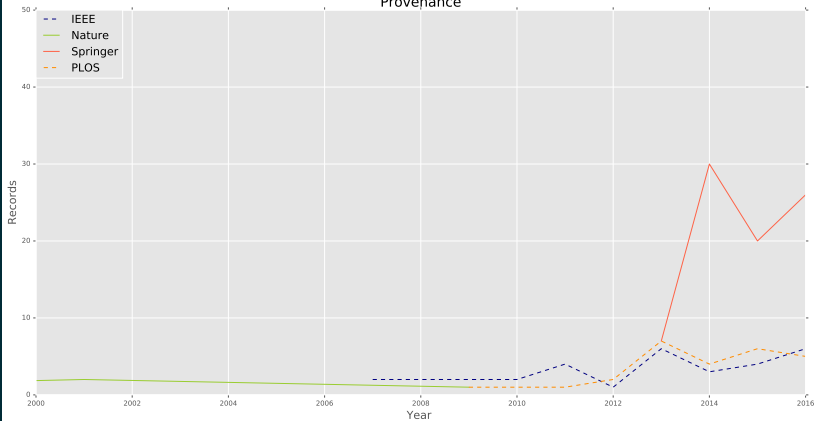
            try:
                df = pd.concat(dfs, ignore_index=True)
                pp.export(df, filename='articles/{0}-{1}-{2}.json'.format(p, words[0], start))
            except ValueError:
                print(None)

        start += 10
```

```
{  
  "key":{"0":, "1":, "2": },  
  "unique_key":{"0":, "1":, "2":},  
  "title":{"0":,  
            "1":,  
            "2":},  
  "author":{"0":,"1":,"2":},  
  "abstract":{"0":,  
              "1":,  
              "2":},  
  "date":{"0":,"1":, "2":},  
  "journal":{"0":,"1":,"2":},  
  "provenance":{"0":,"1":,"2":}  
}
```

$$15min + 5min = 20min$$

Provenance



@NikoletaGlyn

<https://github.com/Nikoleta-v3>

<https://github.com/Nikoleta-v3/Arcas>