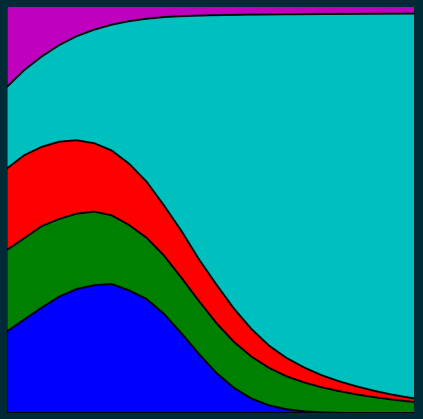
Accessing open research literature with Python

@NikoletaGlyn

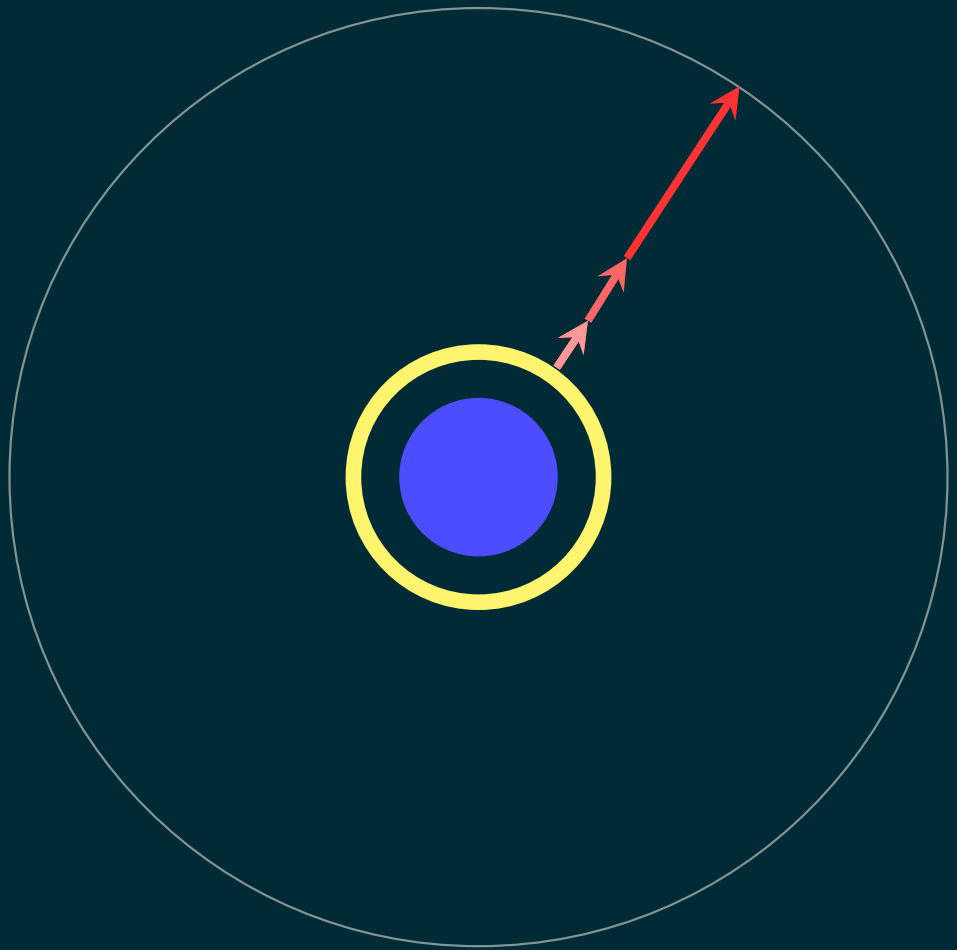


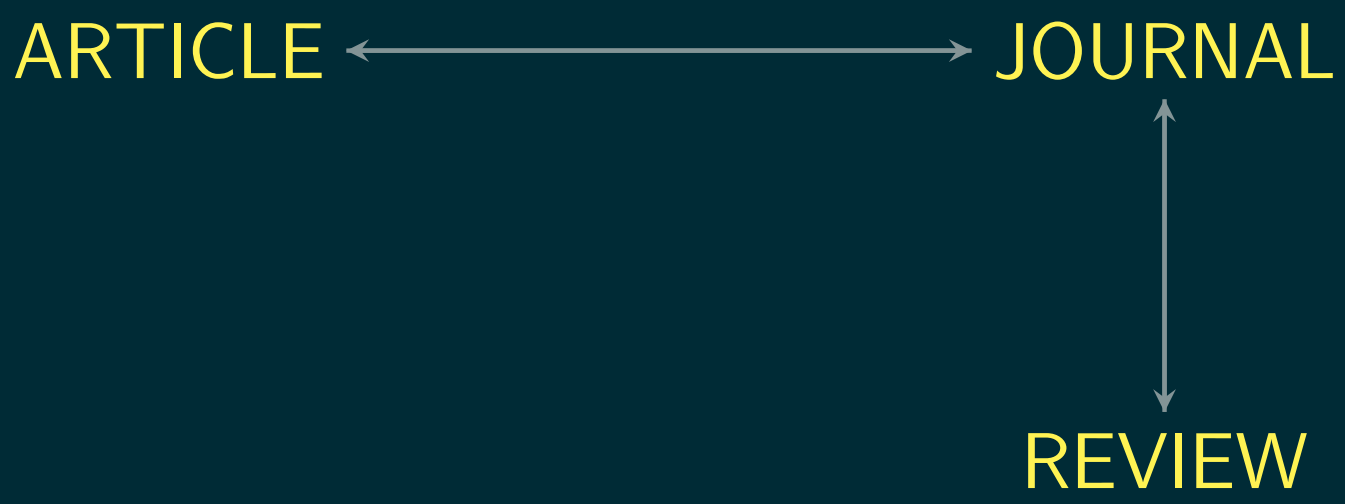
Software
Sustainability
Institute

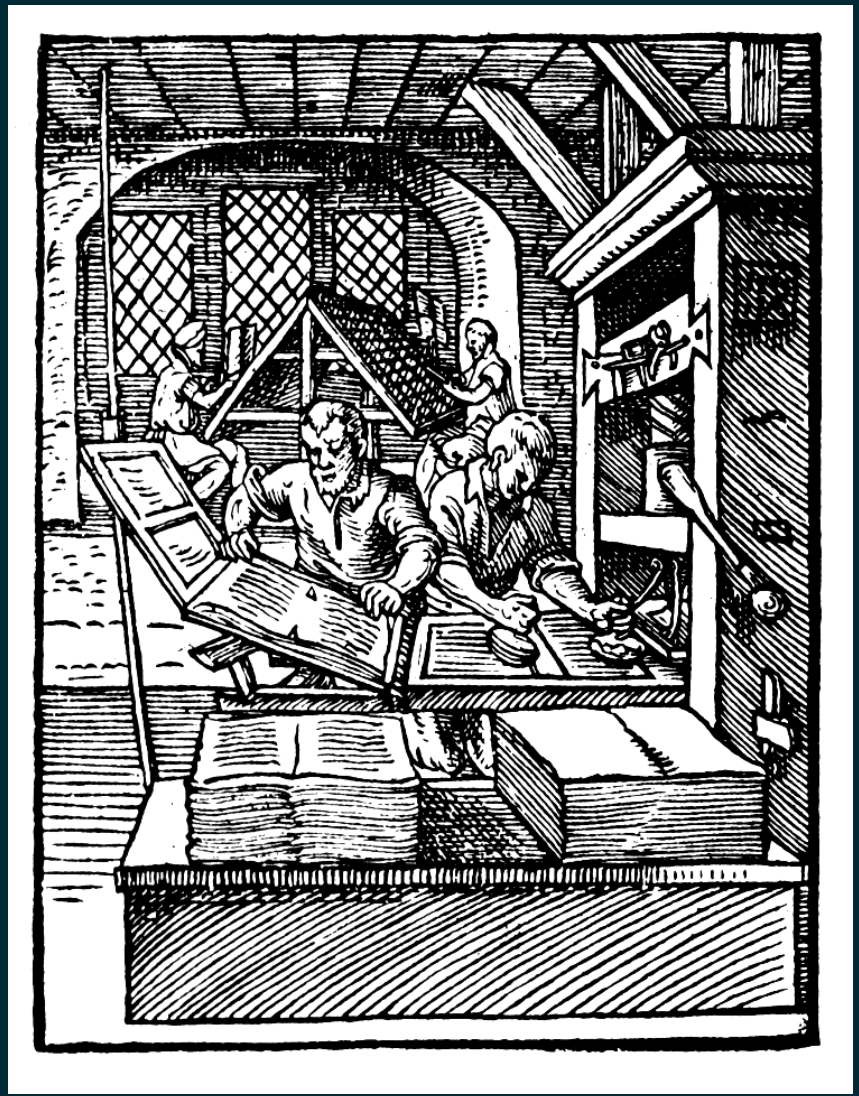
The illustrated guide to a Ph.D.

Matt Might

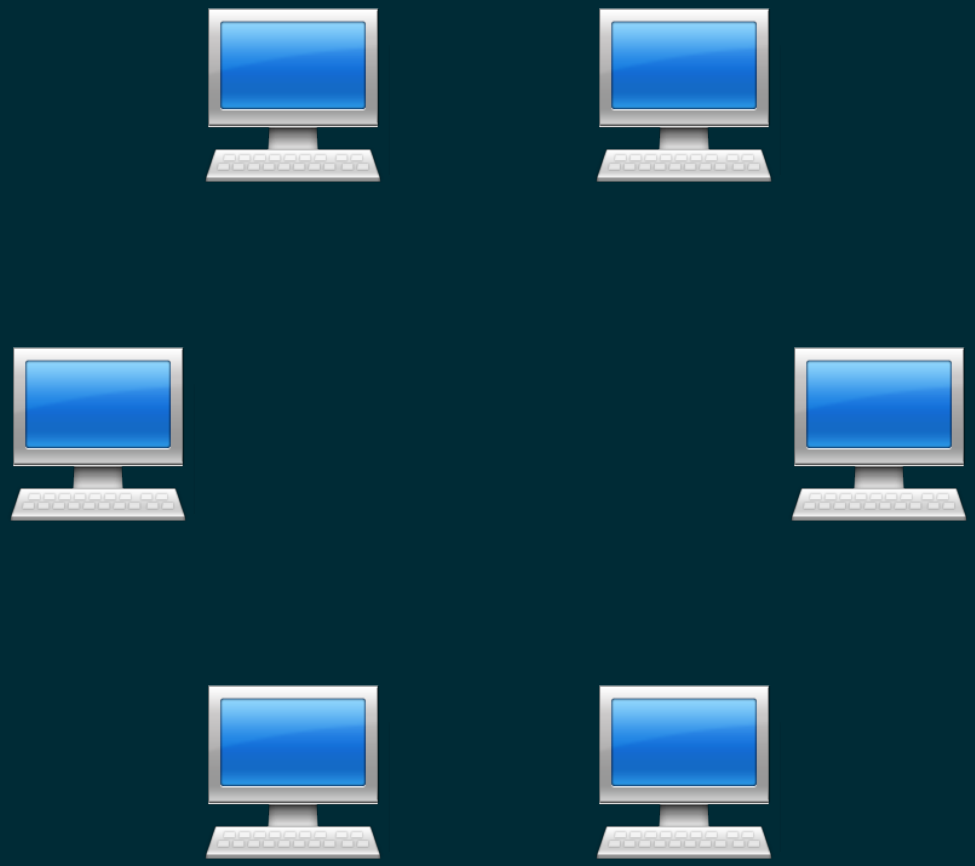
http://matt.might.net/articles/phd-school-in-pictures/




ARTICLE
JOURNAL
REVIEW

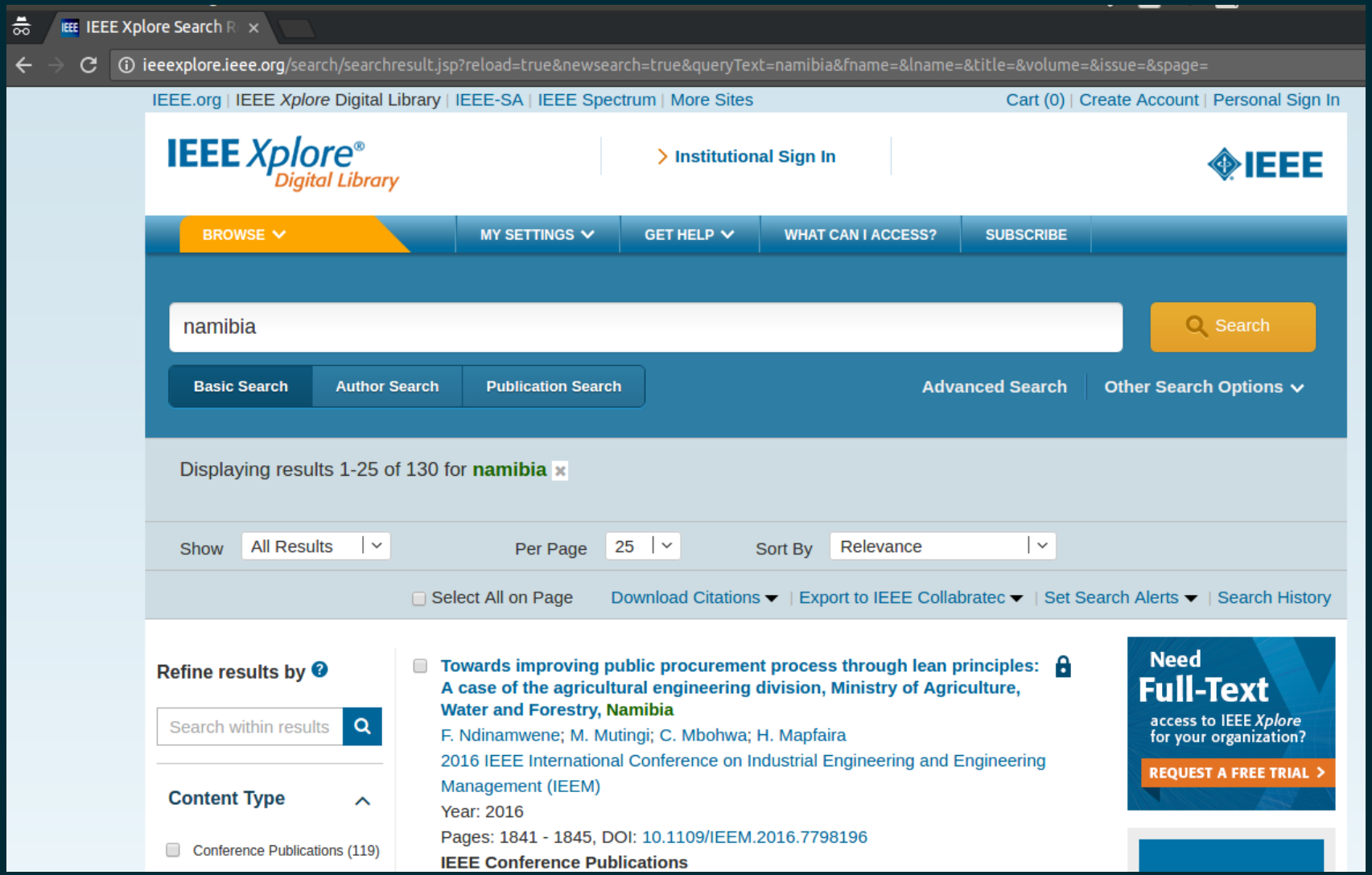


1436



1980s

NAMIBIA


IEEE Xplore Search R
ieeexplore.ieee.org/search/searchresult.jsp?reload=true&newsearch=true&queryText=namibia&fname=&lname=&title=&volume=&issue=&spage=
IEEE.org | IEEE Xplore Digital Library | IEEE-SA | IEEE Spectrum | More Sites
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Per Page 25
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Download Citations | Export to IEEE Collabratec | Set Search Alerts | Search History
Refine results by
Search within results
Content Type
Conference Publications (119)
Towards improving public procurement process through lean principles: A case of the agricultural engineering division, Ministry of Agriculture, Water and Forestry, Namibia
F. Ndinamwene; M. Mutingi; C. Mbohwa; H. Mapfaira
2016 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)
Year: 2016
Pages: 1841 - 1845, DOI: 10.1109/IEEM.2016.7798196
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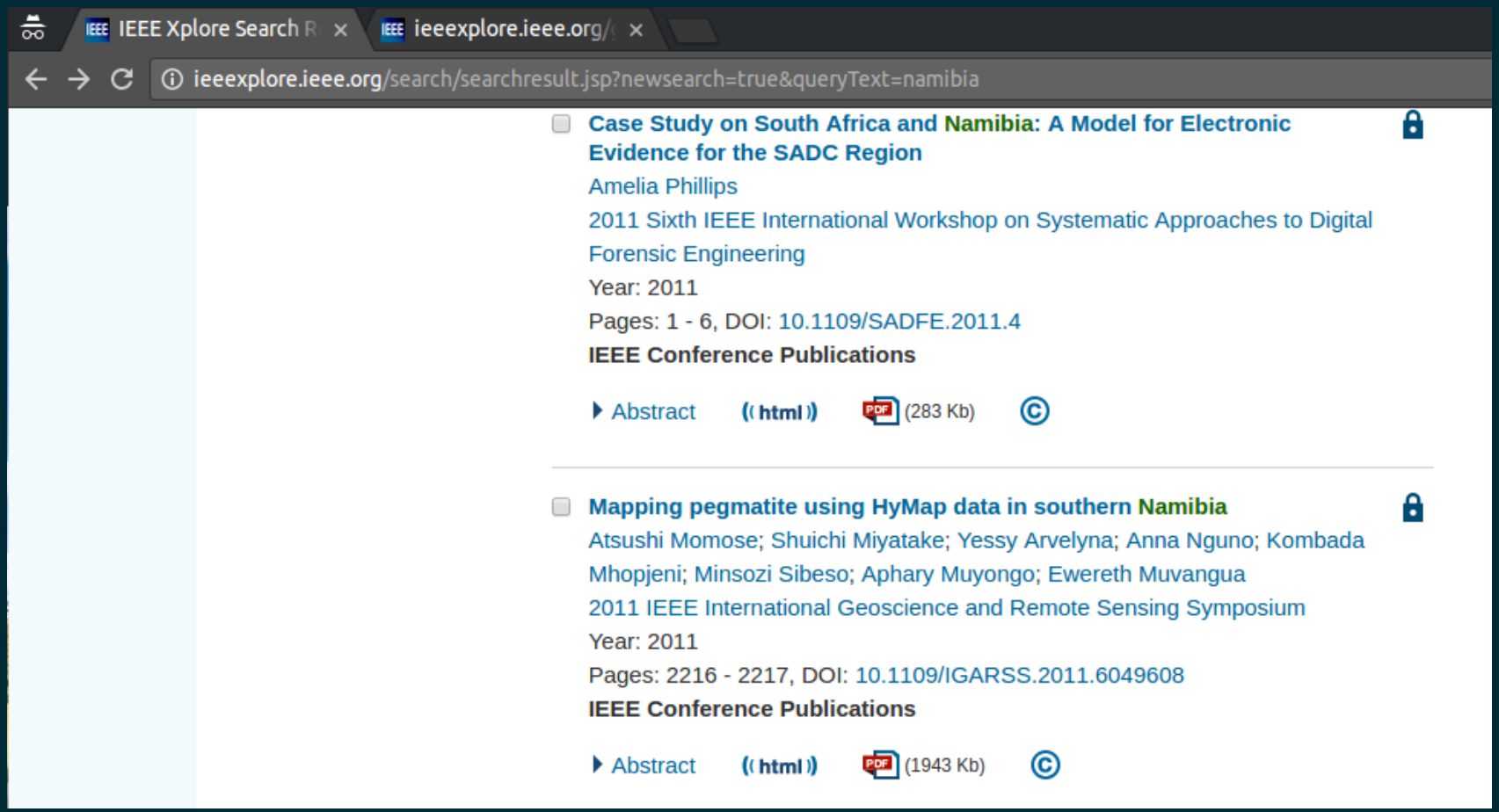

IEEE Xplore Search R
ieeexplore.ieee.org/
ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&queryText=namibia
Case Study on South Africa and Namibia: A Model for Electronic Evidence for the SADC Region
Amelia Phillips
2011 Sixth IEEE International Workshop on Systematic Approaches to Digital Forensic Engineering
Year: 2011
Pages: 1 - 6, DOI: 10.1109/SADFE.2011.4
IEEE Conference Publications
Abstract
html
(283 Kb)
Mapping pegmatite using HyMap data in southern Namibia
Atsushi Momose; Shuichi Miyatake; Yessy Arvelyna; Anna Nguno; Kombada Mhopjeni; Minsozi Sibeso; Aphary Muyongo; Ewereth Muvangua
2011 IEEE International Geoscience and Remote Sensing Symposium
Year: 2011
Pages: 2216 - 2217, DOI: 10.1109/IGARSS.2011.6049608
IEEE Conference Publications
Abstract
html
(1943 Kb)

$$0.5\text{min} + 100 \times 1.5\text{min} + 10 \times 0.5\text{min} =$$
$$155.5\text{min} \Rightarrow 2\text{h and } 35.5\text{min}$$

API

QUERY

http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?ti=Namibia&hc=100

QUERY

http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?ti=Namibia&hc=100

http://api.plos.org/search?q=title:Namibia&rows=100

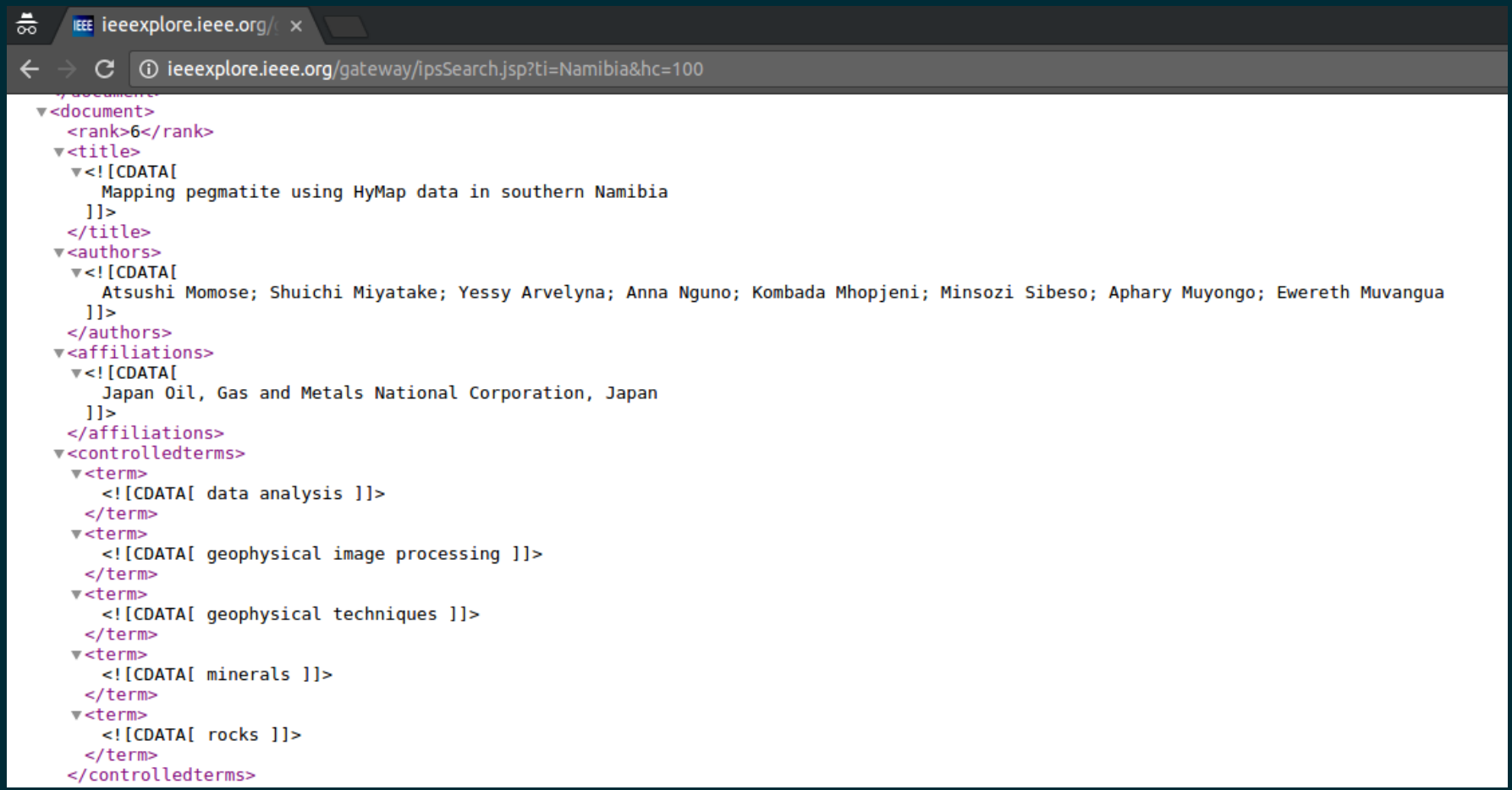
QUERY

http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?ti=Namibia&hc=100

http://api.plos.org/search?q=title:Namibia&rows=100

http://www.nature.com/opensearch/request?queryType=cql&query=dc.title%20adj%20Namibia&maximumRecords=100

...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Mapping pegmatite using HyMap data in southern Namibia
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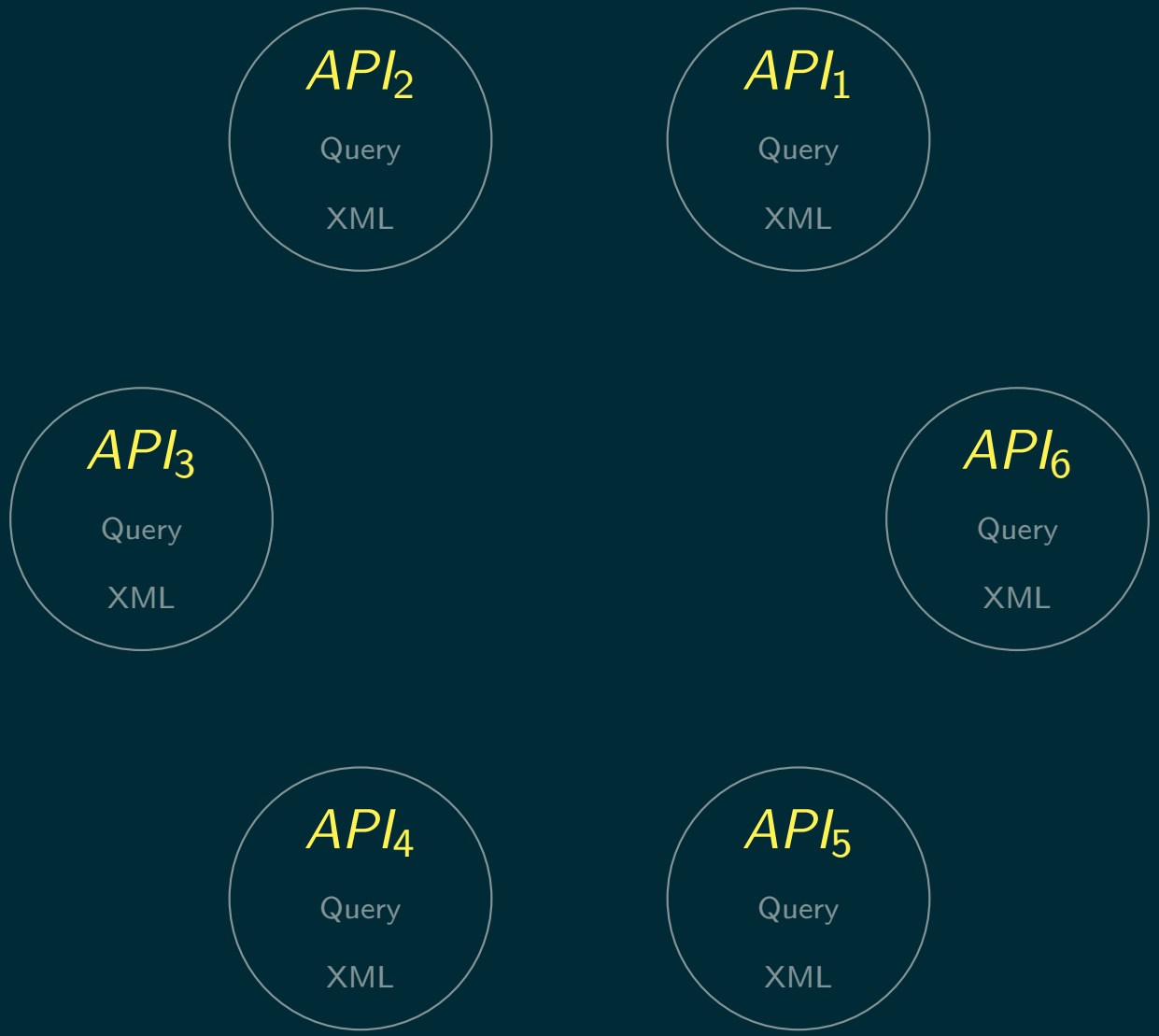
$$15\text{min} + 1\text{min} + 50\text{min} = 66\text{min} \Rightarrow 1\text{h and } 6\text{min}$$


API_2
Query
XML
API_1
Query
XML
API_3
Query
XML
API_6
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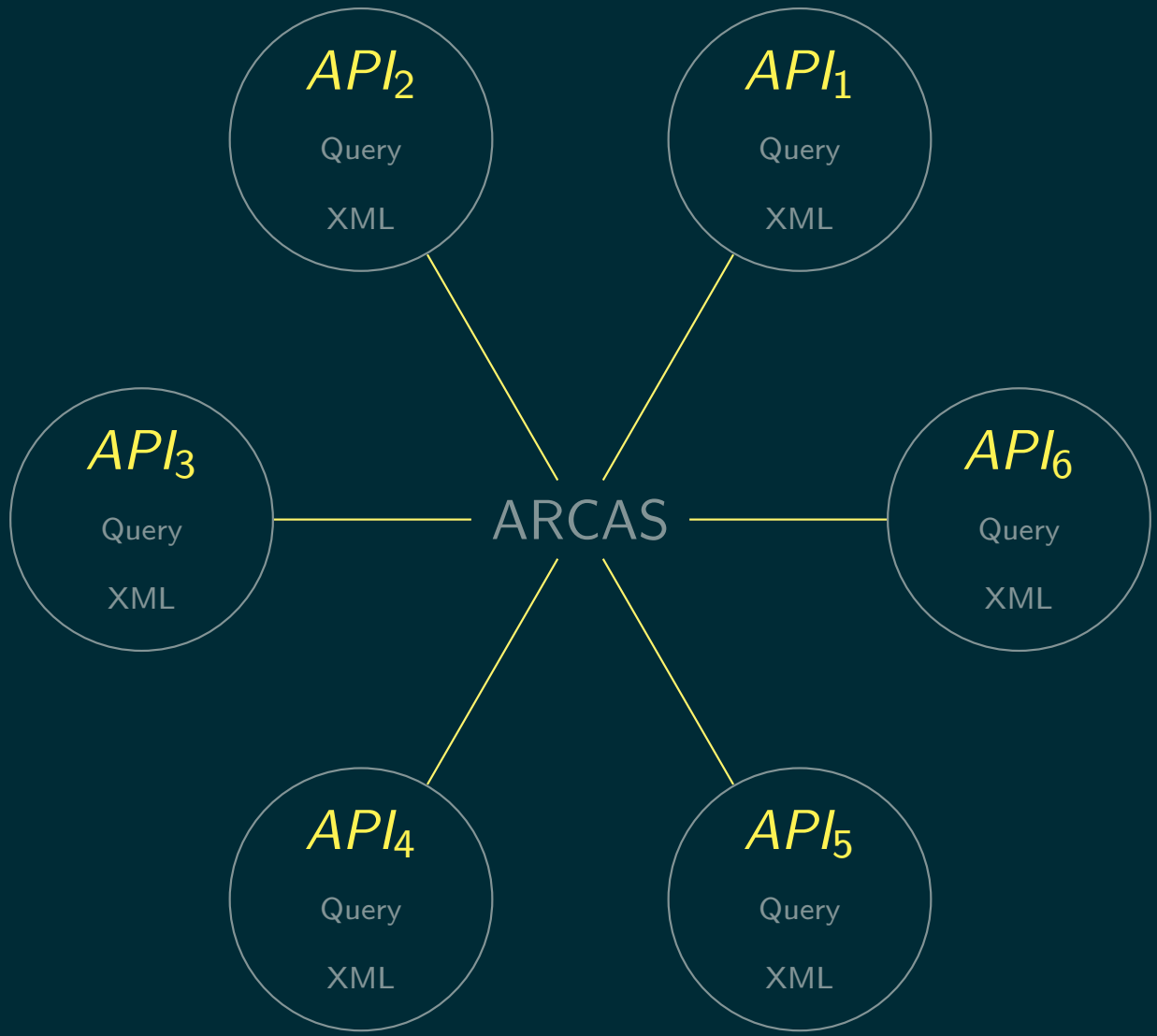
API_4
Query
XML
API_5
Query
XML


API_2
Query
XML
API_1
Query
XML
API_3
Query
XML
ARCAS
API_6
Query
XML
API_4
Query
XML
API_5
Query
XML

```
pip install arcas
```

```
import arcas

arguments = {'-a': None, '-t': 'Namibia', '-s': None,
             '-r': 1, '-y': None, '-b': None}

api =  arcas.Ieee()

parameters = api.parameters_fix(arguments)

url = api.create_url_search(parameters)
request = api.make_request(url)
response = api.get_root(request)
root = api.get_root(response)
raw_article = api.parse(root)
article = api.to_dataframe(raw_article)
```

```python
import arcas

arguments = {'-a': None, '-t': 'Namibia', '-s': None,
             '-r': 100, '-y': None, '-b': None}

for p in [arcas.Ieee, arcas.Plos, arcas.Arxiv, arcas.Nature, arcas.Springer]:
    api = p()
    parameters = api.parameters_fix(arguments)

    url = api.create_url_search(parameters)
    request = api.make_request(url)
    response = api.get_root(request)
    root = api.get_root(response)
    raw_article = api.parse(root)

    for art in raw_article:
        article = api.to_dataframe(raw_article)
        api.export(articles, 'results.json')
```

```
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        "1":"Momose2011",
        "2":"Momose2011"},
"unique_key":{"0":"4061b0ca3b823f85a0cb2823a554c524",
              "1":"4061b0ca3b823f85a0cb2823a554c524",
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"author":{"0":"Atsushi Momose",
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"abstract":{"0":"A pegmatite deposit is an ..."},
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```
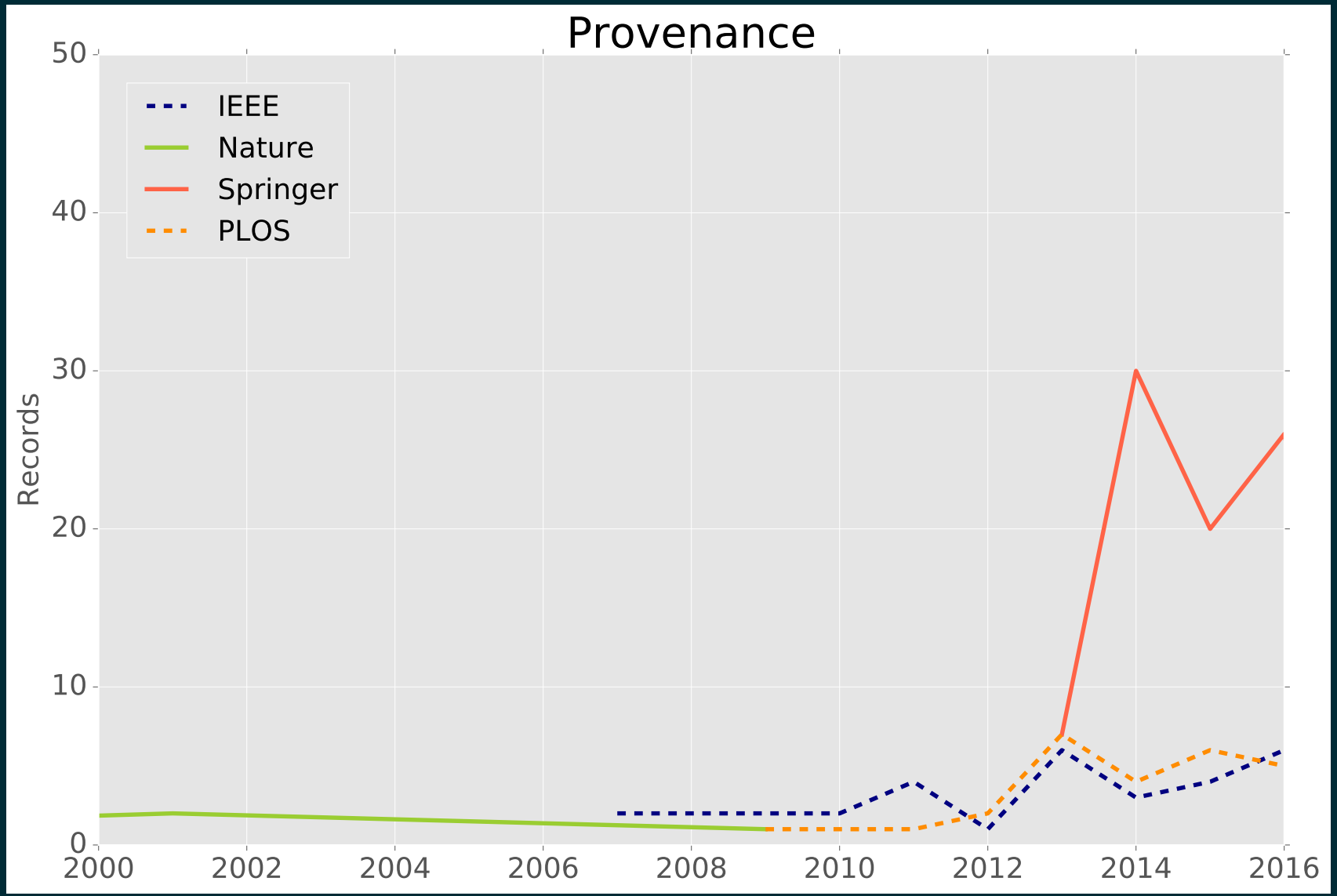

$$15\text{min} + 5\text{min} = 20\text{min}$$


Provenance
IEEE
Nature
Springer
PLOS
Records
0
10
20
30
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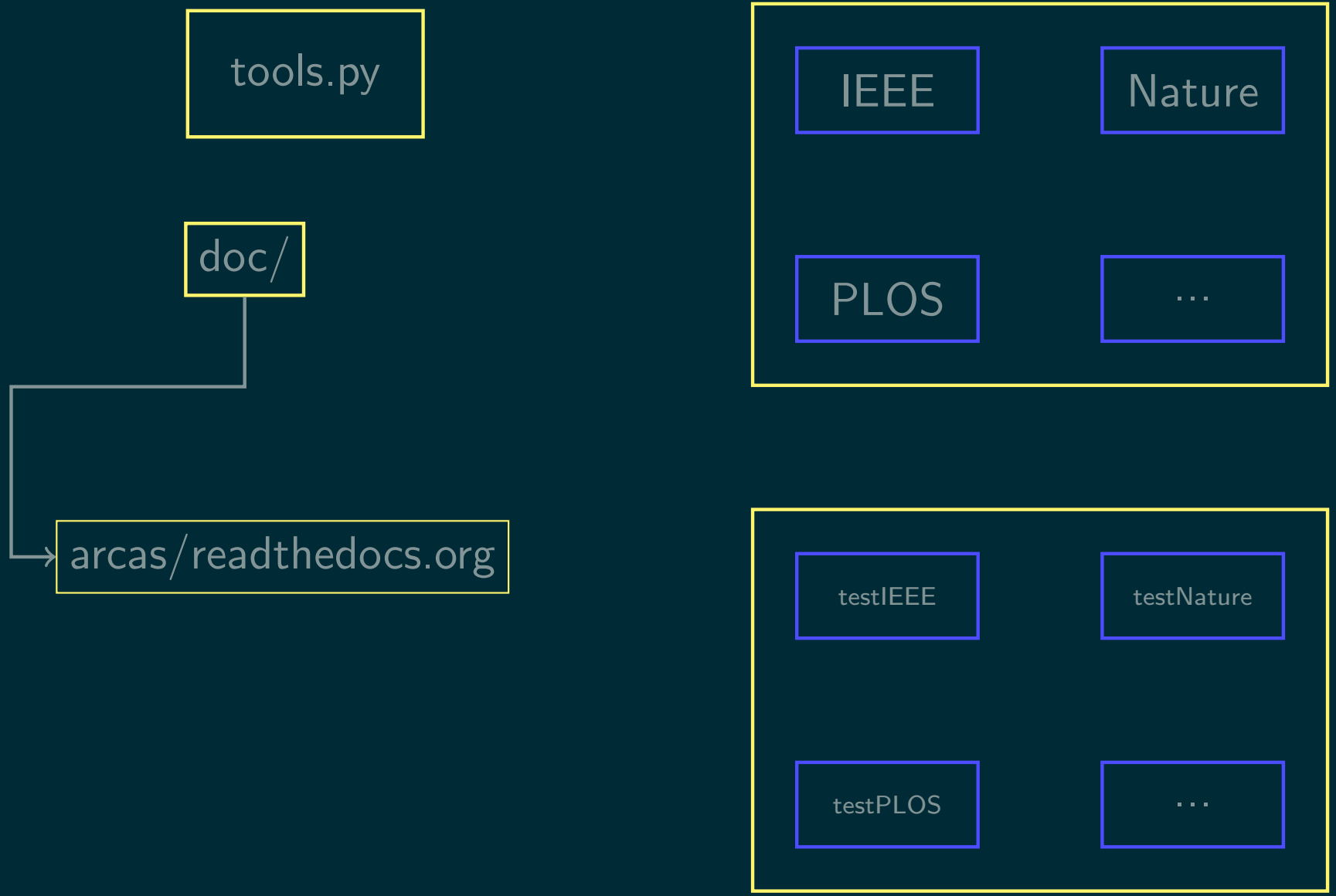
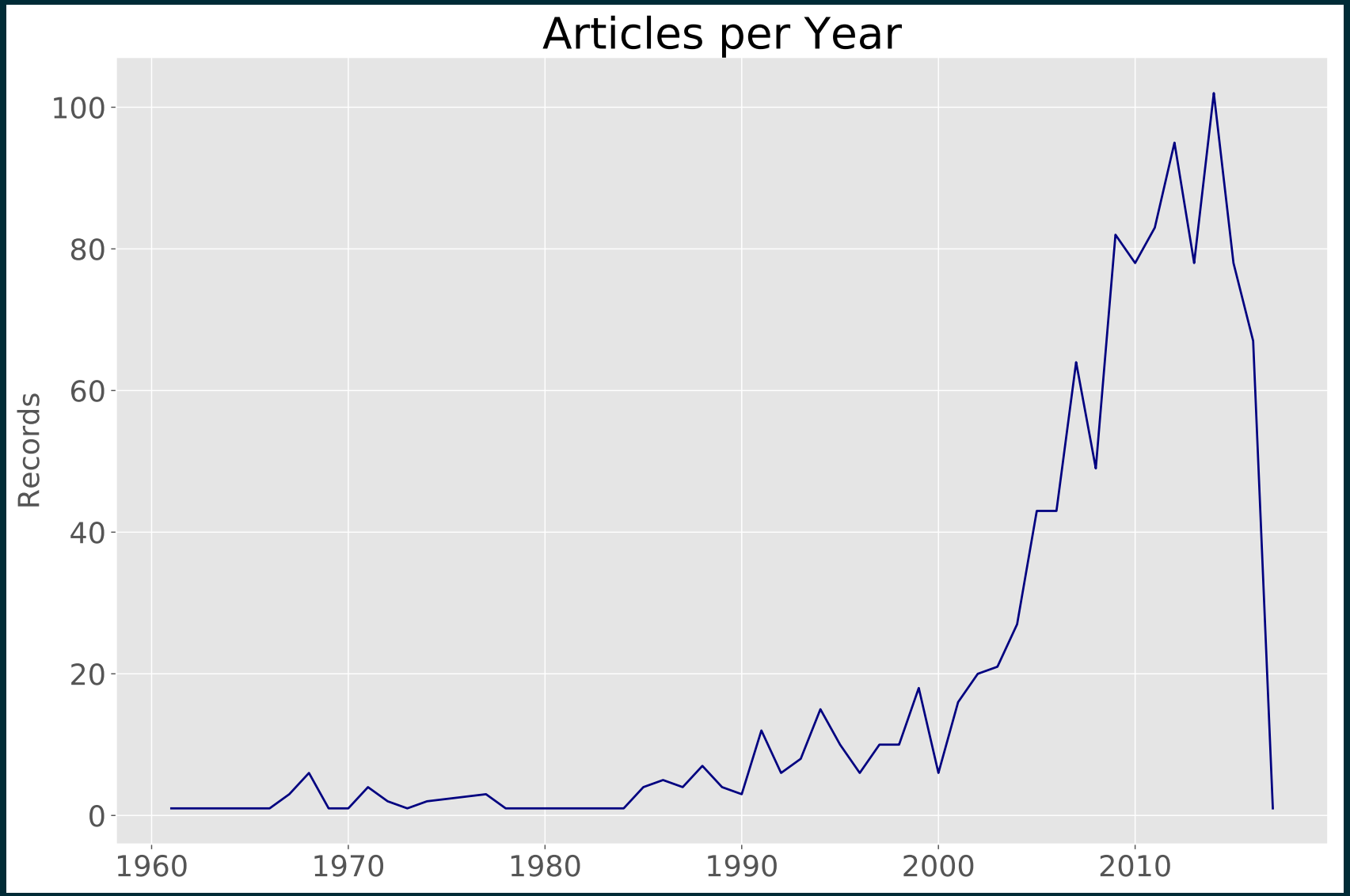
50
2000
2002
2004
2006
2008
2010
2012
2014
2016


tools.py
doc/
arcas/readthedocs.org
IEEE
Nature
PLOS
...
testIEEE
testNature
testPLOS
...


Articles per Year
Records
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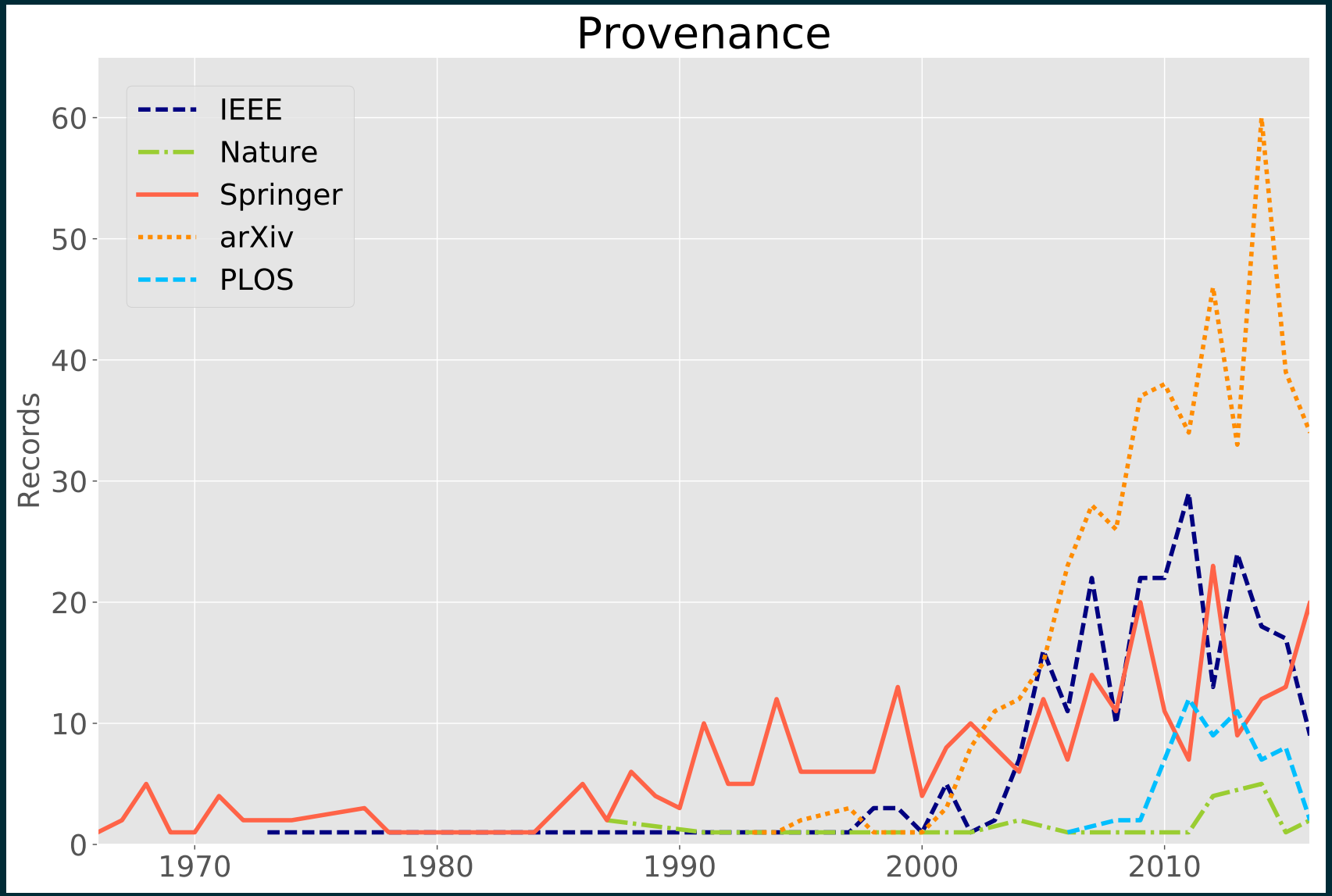
80
60
40
20
0
1960
1970
1980
1990
2000
2010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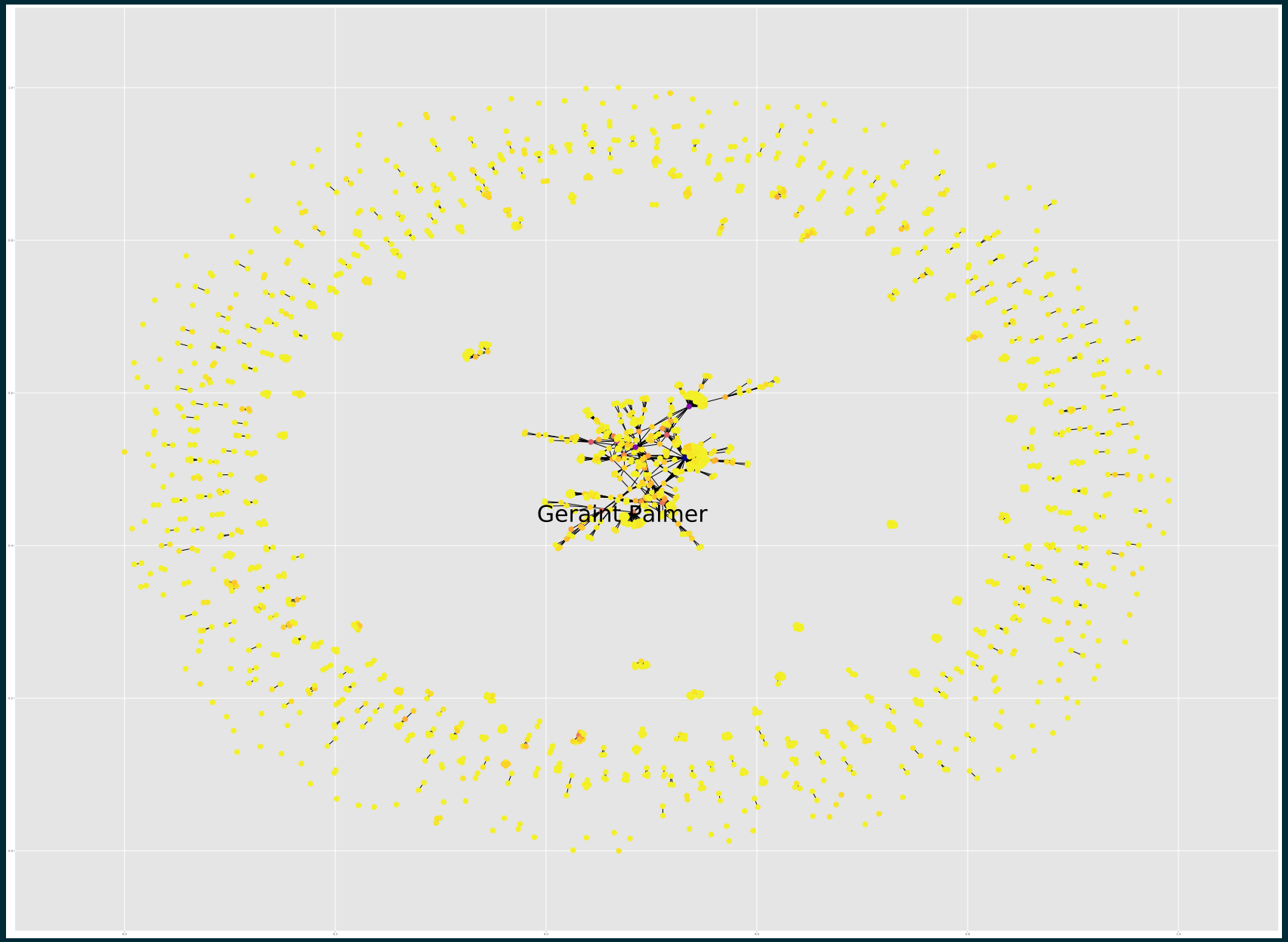
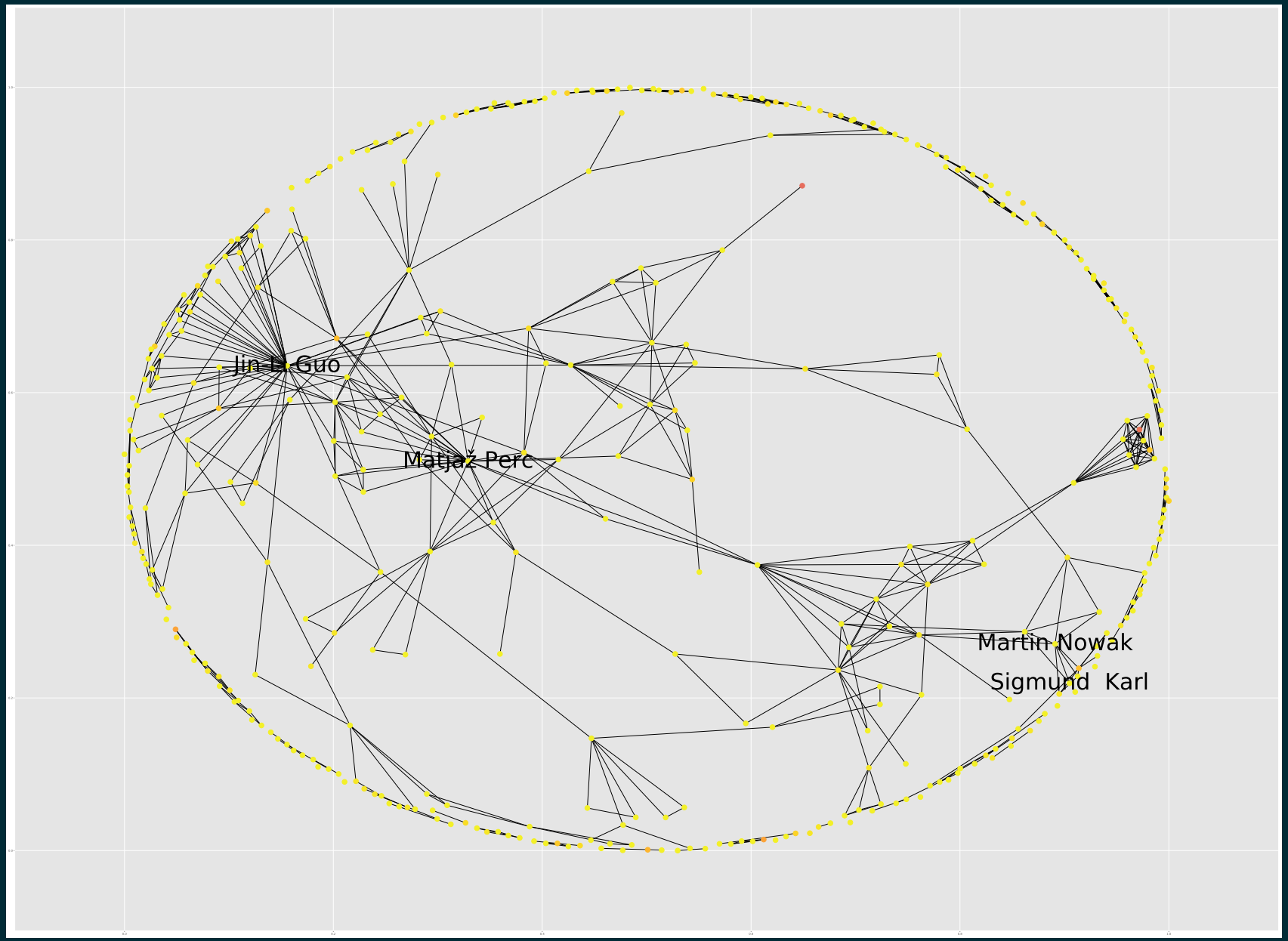

Geraint Palmer


Jin-Li Guo
Matjaž Perc
Martin Nowak
Sigmund Karl

```
authors_papers = df.groupby(['title', 'author']).size().reset_index().groupby('title').count()

authors_papers.sort('author').tail(1)
```

```
"An open reproducible framework for the study of the iterated prisoner's dilemma"
```

```
 arcas_scrape -h

 Arcas. A library to facilitate scraping of APIs for scholarly resources.

Usage:
    arcas_scrape  [-h] [-p API] [-a AUTHOR] [-t TITLE] [-b ABSTRACT] [-y
    YEAR]
              [-r RECORDS] [-s START] [-v VALIDATE] [-f FILENAME]
    arcas_scrape --version


Options:
    -h --help              Show this
    --version              Show version.
    -p API                 The online API, from a given list, to parse [default: arxiv]
    -a AUTHOR              Terms to search for in Author
    -t TITLE               Terms to search for in Title
    -b ABSTRACT            Terms to search for in the Abstract
    -y YEAR                Terms to search for in Year
    -r RECORDS             Number of records to fetch
    -s START               Sequence number of first record to fetch
    -v VALIDATE            Checks if query returned with arguments asked [default: False]
    -f FILENAME            Name of json file [default: results.json]
```

“I academic API so you don’t have to!”

@NikoletaGlyn
https://github.com/Nikoleta-v3
ttps://github.com/Nikoleta-v3/Arcas