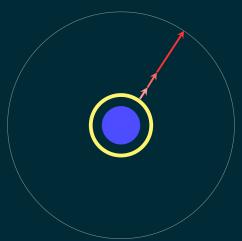
Accessing open research literature with Python

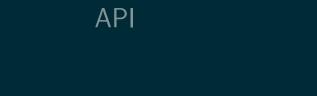
@NikoletaGlyn





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

Scholarly Databases



QUERY

http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?ti=

QUERY

http://ieeexplore.ieee.org/gateway/ipsSearch.jsp?ti=

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

. . .



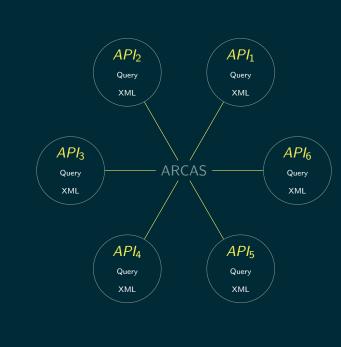


API₃
Query
XML



API₄
Query
XML





```
import arcas
arguments = {'-a': None, '-t': 'Namibia',
api = arcas.leee()
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)
```

```
arguments = {'-a': None, '-t': 'Namibia', '-s': 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')
```

```
{"key":{"0":"Momose2011",
        "1":"Momose2011",
        "2": "Momose2011"}.
"unique key": {"0": "4061b0ca3b823f85a0cb2823a554c524".
              "1": "4061b0ca3b823f85a0cb2823a554c524",
              "2": "4061b0ca3b823f85a0cb2823a554c524"}.
"title": {"0": "Mapping pegmatite using HyMap data in southern Namibia",
         "1": "Mapping pegmatite using HyMap data in southern Namibia",
         "2": "Mapping pegmatite using HyMap data in southern Namibia"},
"author": {"0": "Atsushi Momose".
          "1": "Atsushi Momose",
          "2":"Atsushi Momose"},
"abstract":{"0":"A pegmatite deposit is an ..."},
"date":{"0":2011.
"journal": ["0": "2011 IEEE International Geoscience and Remote Sensing Symposium".
           "1": "2011 IEEE International Geoscience and Remote Sensing Symposium",
           "2": "2011 IEEE International Geoscience and Remote Sensing Symposium"},
"pages":{"0":"2216-2217".
         "2": "2216-2217"},
"key_word":{"0":"data analysis",
           "1": "geophysical image processing",
           "2": "geophysical techniques"},
"provenance": {"0": "IEEE",
              "2":"TEEE"}}
```

doc/ arcas.readthedocs.io/

IEEE Nature
PLOS ...

testIEEE testNature

testPLOS ...

```
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
   -v 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/Arcas @SoftwateSaved

@PhoenixCUni