Dimensions

The Dimensions Analytics API

Harness the full power of Dimensions data
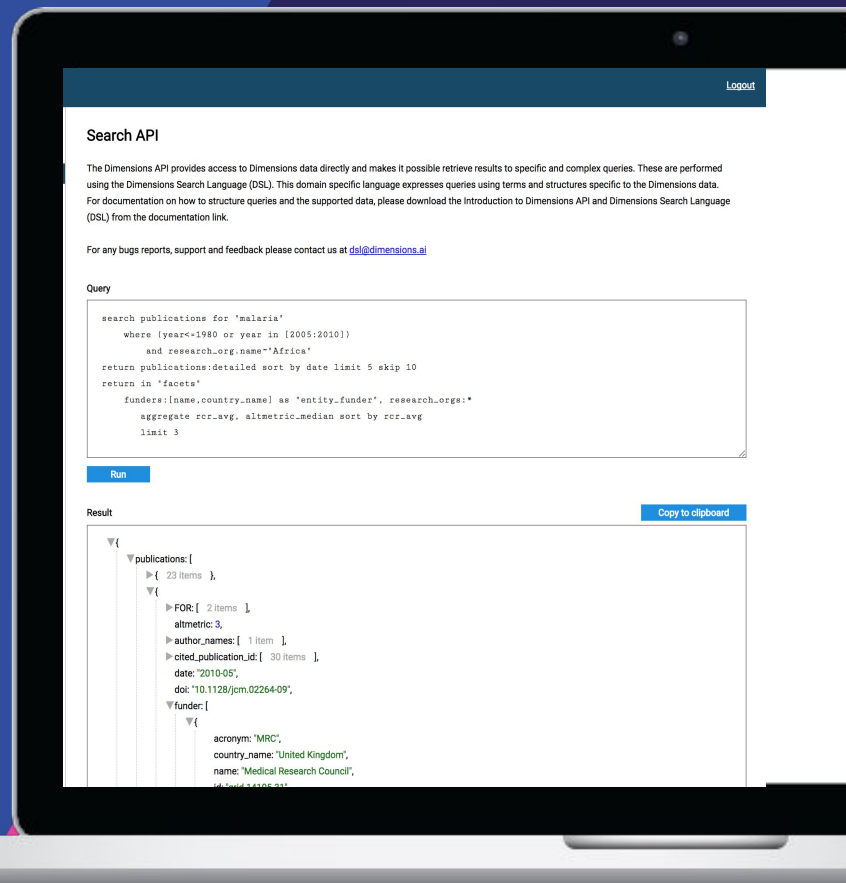
Michele Pasin
Head of Data Architecture and Insights
m.pasin@digital-science.com

Part of **DIGITAL**SCIENCE

The Dimensions API

Powerful API - designed to carry out sophisticated research data analysis tasks

1. **Automate repetitive tasks** which would be difficult or impossible to do via the web-app

2. Answer **advanced** or **ad-hoc** research analytics questions

3. **Reuse data** outside of the web-app; e.g. in admin systems or analytical software

4. Get **more data** than 50k results (max limit for web export functionality)

Dimensions

Part of **DIGITAL**science

Dimensions Search Language (DSL)

Powerful query language developed around simple syntax, allowing users with various levels of technical skills to use.

- **Basic query based around two phrases**

- More complexity can be included by adding filters

- Returned data can be specified using custom fieldsets

```
search publications
return publications
```

Dimensions

Dimensions Search Language (DSL)

Powerful query language developed around simple syntax, allowing users with various levels of technical skills to use.

- Basic query based around two phrases
- **More complexity can be included by adding filters**
- Returned data can be specified using custom fieldsets

```
search publications
     for "leukemia"
     where year in [2015:2017]
return publications
```

Dimensions

Dimensions Search Language (DSL)

Powerful query language developed around simple syntax, allowing users with various levels of technical skills to use.
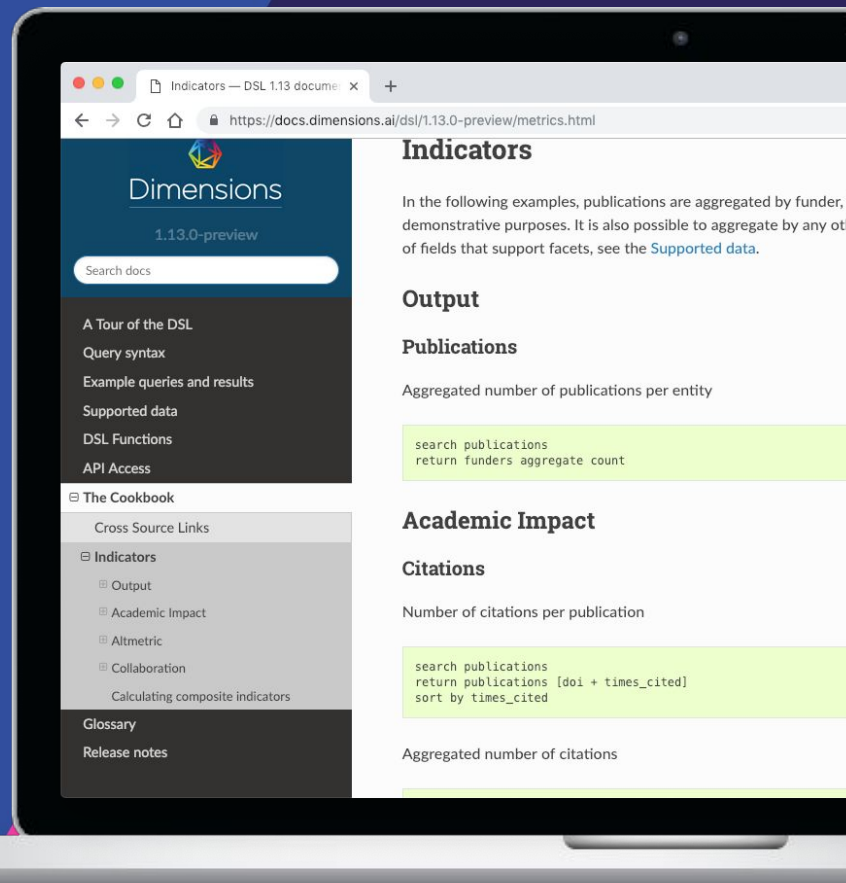
- Basic query based around two phrases

- More complexity can be included by adding filters

- **Returned data can be specified using custom fieldsets**

```
search publications
    for "leukemia"
    where year in [2015:2017]
return publications [title+doi]
return researchers [id+last_name]
return journal [title]
```

Dimensions

Part of **DIGITAL** science

Would you like to know more?

The Dimensions API has extensive documentation, containing examples, tutorials and supported data tables

https://docs.dimensions.ai/dsl/latest/

Upcoming Features

- **Integration of GRID**

- Searching for Journals

- More research categories

```
extract_affiliation("Rome
University")


search organizations
    for "harvard"
return organizations
    [id + fundref_id +
    wikidata_id]
```

Dimensions

Part of **DIGITAL** science

Upcoming Features

- Integration of GRID
- **Searching for Journals**
- More research categories

```
search journals
    for "medicine"
return journals
    [id + issn + title]
```

Dimensions

Upcoming Features

- Integration of GRID

- Searching for Journals

- **More research categories**

  - ICRP Cancer Types

  - ICRP Common Scientific Outline

  - Units of Assessment (UK REF)

```
search publications
     where category_icrp=
"Melanoma"
return publications
```
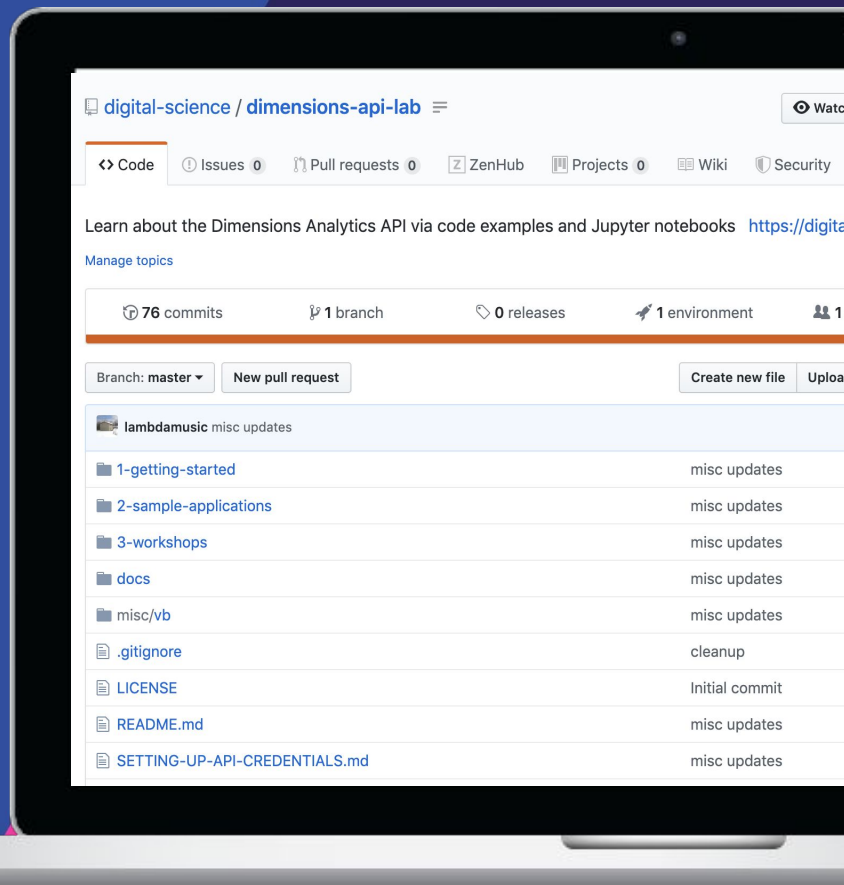
●

Part of **DIGITAL**science

Dimensions API Lab

Github repository where we share code, examples and experiments done using the Dimensions API.

- Getting started guides
- Calculating the H Index of a researcher
- Which Are the Journals Citing My Organization
- Which Are the Patents Citing My Organization
- International and Industry collaboration
- Building a Citation Graph

https://github.com/digital-science/dimensions-api-lab

Dimensions

Hands-on exercise

Current customers can access the Google collab notebook used for our live exercise here.

Dimensions