OpenAlex - Redefining Scholarly Knowledge with Open Access Data

Figure 1: OpenAlex logo

What is OpenAlex?

- bibliographic catalogue of scientific papers, authors and institutions accessible in **open access**
- released in January 2022 by OurResearch (a U.S.-based non-profit)
- name inspired by the Library of Alexandria

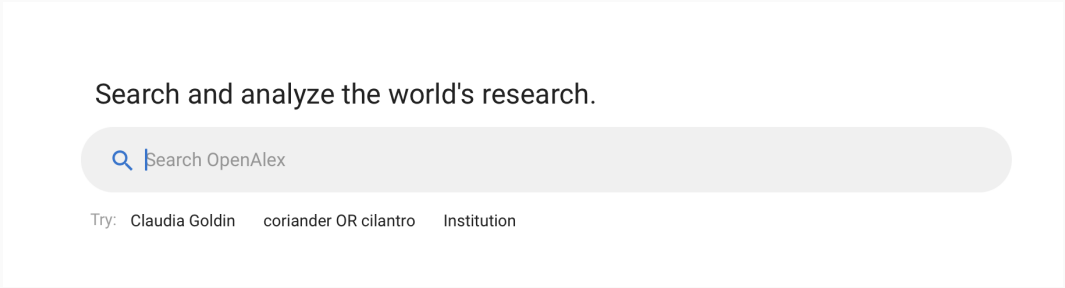


Figure 2: OpenAlex Webinterface

What is OpenAlex?

- over 250M scholarly works from 250k sources
- linked to 90M disambiguated authors and 100k institutions
- graph database
- base was data from Microsoft Academic Graph (MAG)

What was Microsoft Academic Graph (MAG)?

- academic search engine for open access publications
- run by Microsoft Research from 2016 to the end of 2021
- primarily resource for sources in computer science
- open API made it possible for OpenAlex to merge data

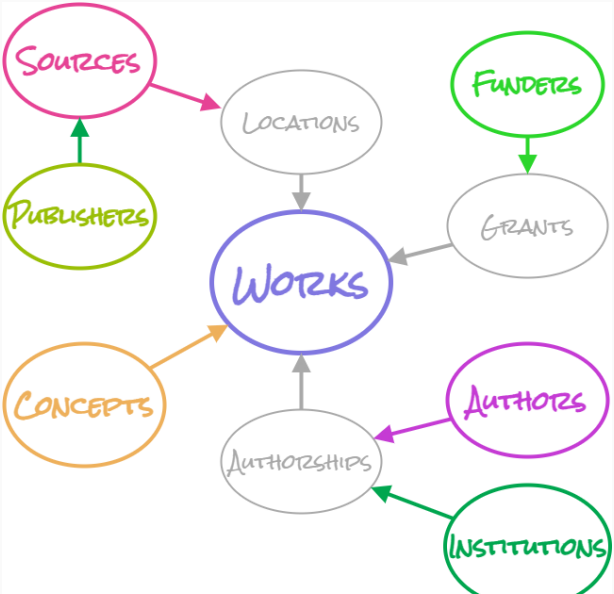
Where does OpenAlex get its data from?

- MAG was its most important source
- crossref, open scholarly data aggregator and registration agency for DOI
- others are: ORCID, DOAJ, ROR1

How does OpenAlex structure the data?

- graph database
- nodes = scholarly entities
- edges = relationship between entities

Entities in OpenAlex

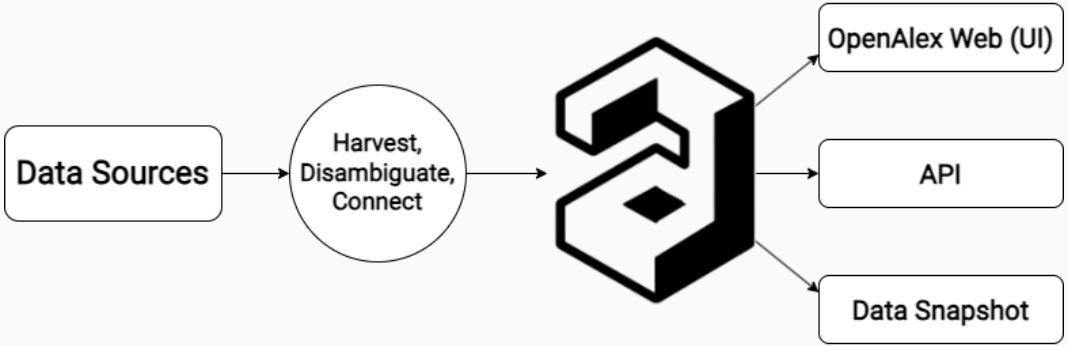


Entities in OpenAlex

Entity	Description
Works	Scholarly documents like journal articles, books, datasets
Authors	People that created works
Sources	Where works are hosted (journals, confrences etc.)
Institutions	Universities and other organizations to which authors are connected to
Topics	Topics assigned to works
Publishers	Companies and organizations that distribute works
Funders	Organizations that fund research
Location	Locations that can be linked to works and sources

How does OpenAlex make the data accessible?

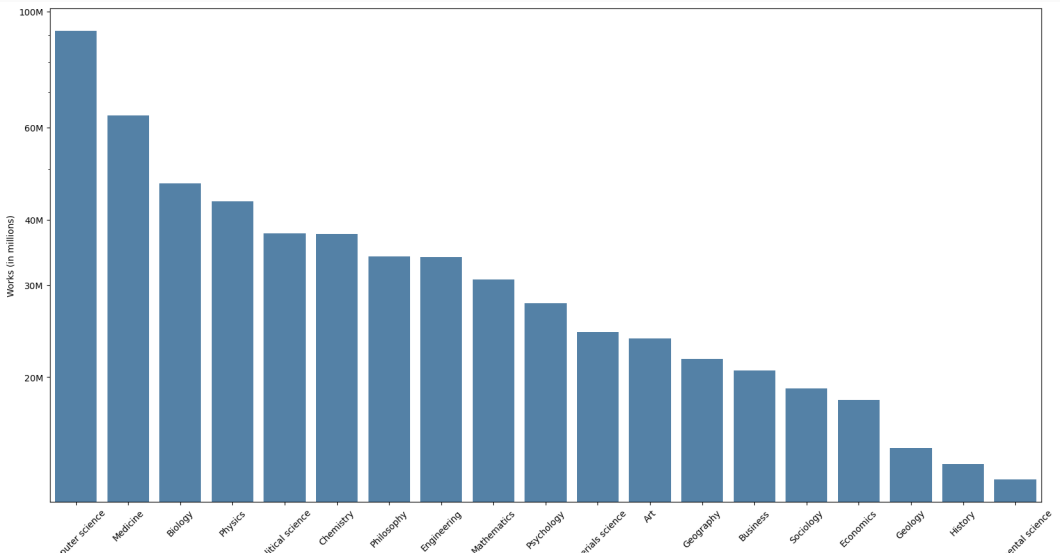
- CC0 license
- free to use web interface search engine
- Open REST-API
- downloadable data (Snapshot)



How does OpenAlex guarantee Author disambiguation?

- OpenAlex's Author Name Disambiguation (AND) System
- algorithm that uses an author's name, their publication record, their citation patterns, and (where available) their ORCID
- XGBoost-based model and iterative clustering for accurate grouping of authors

What fields of science does OpenAlex cover?



What is OpenAlex useful for?

- literature search
- used by universities to measure the progress of their research in-terms of publishing publications

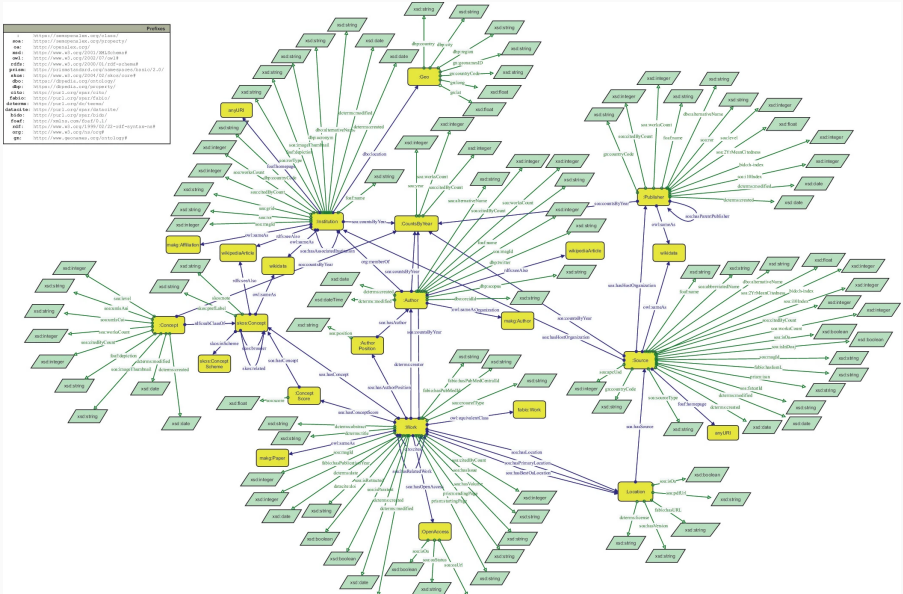
Projects using OpenAlex

- Python + R libraries
- “Curtin Open Knowledge Initiative” dashboard
- SemOpenAlex

SemOpenAlex

- knowledge graph with 26 billion RDF & RDF* triples
- ontology based on OpenAlex entities
- all URIs of SemOpenAlex are resolvable, which allows it to be part of the LOD Cloud
- researchable with SPARQL

SemOpenAlex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