Profiles:

Authors (e.g.https://tools.wmflabs.org/scholia/author/Q16733372):

- Authors Name
- Authors Wikidata ID (e.g. Q16733372 with link to respective Wikidata link)
- Small description of Author from Wikipedia site, with given link to Wikipedia page
- Related Persons in list with links to their scholia pages
- The author's Orcid link (e.g. https://orcid.org/0000-0002-9593-2294)

List of publications:

- Date
- Work (Titel eg. "Capturing meaning:Toward an abstract Wikipedia", with link to the respective scholia page for the article)
- Type (eg. document, scholarly article, scientific conference paper…)
- Pages (anzahl)
- Venue (eg. Journal, Conference, Proceedings…; this also includes link to respective scholia page)
- Authors (this also includes co-authors and the link to their scholia pages)

Other representations:

- Number of publications per year
  - Needs publication year to sort by
- Number of pages per year
  - and number of pages published
- Venue statistics
  - Needs venue information-> called venue? In querry
  - Need to be able to count how many times a venue occured
  - Need its short name (e.g. LNCS short hand for Lecture Notes in Computer Science)
  - Venue (e.g. lecture Notes in Computer Science with link to scholia page for it)
  - Topics (e.g. computer science)
- Co-author graph
  - Need names of all co-authors -> with link to information so that following information can be called:
    - Tätigkeit
    - Familienname
    - Geschlecht

- - - Arbeitsgebiet
    - Wohnsitz
    - Ist ein(e) (e.g. Mensch)
    - Geburtsort
    - Wirkungsort
    - Land der Staatsangehörigkeit
    - Gesprochene oder publizierte Sprachen
    - Promotionsbetreuer -> Name
    - Doktorand -> Name oder Anzahl
    - Öffentliches Amt oder Stellung
    - Besuchte Bildungseinrichtung
    - Bedeutende Werke -> Anzahl
    - Zugehörigkeit zu -> e.g. DABAI
    - Schüler -> Anzahl
- Topic scores
  - Need: ?score ?topic ?topicLabel and ?work
  - I'm not sure where the score comes from, but it would make sense to be the amount a certain topic appeared in all of the authors works
- Topics of authored works
  - ?count ?theme ?themeLabel ?example_work ?example_workLabel
  - Count
  - Theme (e.g Semantic MediaWiki, Wikipedia… with link to respective scholia page)
  - Example Work (e.g. Semantic Wikipedia with link to the its scholia page)
- Associated images
  - # Images of the person
    wd:Q18618629 wdt:P18 ?image .

- Topics-works matrix
  - ?count ?theme_label ?work_label
- Timeline
  - ?label ?beginning ?ending ?education_degree_label ?education_statement ?affiliation ?affiliation_statement ?affiliation_degree ?affiliation_degree_label ?award_statement ?award_label
  - Publications
  - Most cited publication is also noted
  - Affiliations with Unis, Institutes -> date of beginning of relationship
  - Award, their names and date received
- Academic tree
  - ?student1 ?student1Label ?supervisor1 ?supervisor1Label
- Locations
  - ?image ?item ?itemLabel ?geo (?property_item_label AS ?layer

- ○ It shows world map and locations where publications etc. happened
- Citation statistics
  - ○ Count
  - ○ Work -> title (eg. Tissue-based map of the human protepme)
- Citations by year
  - ○ ?citing_work ?count ?kind ?date ?year
  - ○ Citations from others
  - ○ Self-citations
- Citing authors
  - ○ Count
  - ○ Citing author with link to scholia page
  - ○ Orcid (e.g. https://orcid.org/0000-0002-5617-4611)

Institute Pages (e.g. Technical University of Denmark (Q1269766) https://tools.wmflabs.org/scholia/organization/Q1269766):

- Institute Name
- Institute Wikidata ID
- Small description of Institute from Wikipedia
- List of related Institutes with links to their respective scholia page

Representations of data:

- Employees and affiliated
  - ○ Work -> number of published works
  - ○ Researcher -> their name and link to scholia page
  - ○ Description -> who they are (e.g researcher, Danish biomechanical engineer, Danish bioinformatics professor, scientist …)
  - ○ Orcid of person and link to Orcid page
- Co-author graph
  - ○ ?author1 ?author1Label ?image1 ?rgb
  - ○ ?author2 ?author2Label ?image2
  - ○ ?publication_type ?work
- Advisor graph
  - ○ ?author1 ?author1Label ?rgb ?author2 ?author2Label
  - ○ ?gender1
  - ○ It is important to be able to display the links between the displayed persons
  - ○ They are connected because they all have the given Institute as their Employer/Arbeitgeber
- Recent publications
  - ○ Publication date
  - ○ Work -> Title
  - ○ Name of researchers

- Page production
  - per year per author. The number of pages for a multiple-author paper is distributed among the authors. The statistics is only for papers where the "number of pages" property has been set.
  - ?year
  - ?pages_per_author ?number_of_pages
  - ?researcher ?researcher_of_paper ?researcher_label ?work ?year
  - It shows:
    - Year
    - Name of Author
    - Number of pages each author published in the given year
- Most cited papers with affiliated first author
  - ?count ?work ?workLabel
  - ?citing_work
  - ?researcher
  - ?researcher_statement
  - It seems to count how many times a paper published from an author at the Institute was cited
- Co-author-normalized citations per year
  - Looks at all authors, how many times each author was cited per year
  - ?year (SUM(?citations_per_author_) AS ?citations_per_author) ?researcherLabel
  - ?work wdt:P50 | wdt:P2093 ?researcher_of_paper .
  - ?researcher .
  - ?citing_work
  - ?date .
- Awards
  - Count
  - Award Name and Scholia page link to the Award
  - Names of recipient/recipients without links to their pages
- Gender distribution
  - Number of males
  - Number of females

Journal Pages (e.g. NeuroImage ([Q1981225](#)) https://tools.wmflabs.org/scholia/venue/Q1981225):

- Name of Journal
- Journal Wikidata ID
- Description from Wikipedia
- Related Journals with links to their scholia pages

Representations of data:

- Recently Published works:
  - (MIN(?publication_date_) AS ?publication_date)
  - ?work ?workLabel
  - ?author_label; ?author
  - Publication date
  - Work -> Paper titles with links to their scholia pages
  - Names of Authors
- Topics
  - ?count ?topic ?topicLabel ?example_work ?example_workLabel
  - Count
  - Topic (e.g attention, neuroimaging, schizophrenia and links to the topics respective scholia page)
  - Title and link to an example work, in which the topic was discussed
- Authors images
  - (SAMPLE(?image_) AS ?image) ?author ?authorLabel ?count
- Prolific authors
  - Count
  - Author name with scholia page link
  - Authors Orcid
  - Title and link to an example work of the author
- Most cited articles
  - Count
  - Work -> title and scholia link
  - Example citing work -> Name and scholia link of article that cited the respective work
- Most cited authors
  - Count
  - Author Name and scholia link
  - Authors Orcid
  - Example cited work -> title and scholia link of work, which was cited by other works
  - Example citing work -> title and scholia link of work, which cites the previously described work
- Citation distribution
- Cite venues
  - Count
  - Short name
  - Name of cited journal with scholia page
- Venues cited from
  - Count

- ○ Short name of cited journal
- ○ Name of cited journal with link to their scholia page

Not yet completed data representations:

- Gender distributions
- Authors
- Authorship

Library Pages (e.g. Public Library of Science (Q233358) https://tools.wmflabs.org/scholia/publisher/Q233358):

- Name of Library
- Library Wikidata ID
- Description from Wikipedia

Representations of data:

- Journals and other collections
  - ○ Number of works
  - ○ BFI
  - ○ Journal name and link to its scholia page
  - ○ Theme of journal (e.g. science, genetics, pathogen…)
- Recently established journals
  - ○ Journal names
  - ○ Date the first of its kind was published
- Most cited papers
  - ○ Number of citations
  - ○ Work -> its title and scholia link
  - ○ The name of the journal the work was published in
    - ■ With the scholia page link for the journal
- As function of number of published works
  - ○ ?work_count ?citation_count ?journal ?journalLabel
  - ○ ?work ?citing_work

Topic Pages (e.g. Zika virus (Q202864) https://tools.wmflabs.org/scholia/topic/Q202864):

- Name of Topic
- Wikidata ID for topic
- List of related topics and their links to the scholia pages

Representations of data:

- Recently published works on topic
  - ?date ?work ?workLabel ?topics ?topic ?topic_label
  - Publication date
  - Work -> title and scholia link to work
  - Topics (e.g. Zika virus)
- Publications per year
  - ?year ?work ?number_of_publications ?article_type ?earliest_year ?type
  - Number of publications
  - Type of publication (e.g. clinical trial, erratum, film, literature review…)
- Authors publishing about the topic
  - Count
  - Author name and scholia link
  - Authors Orcid and link to orcid page
- Co-author graph
  - The 25 most prolific authors and their co-authors
  - ?author1 ?author1Label ?rgb ?author2 ?author2Label ?gender1 ?work
  - For information necessary about author check Author page information list above
- Co-occurring topics
  - Count
  - Topic and scholia page link (e.g. Zika virus infection or congenital Zika virus infection)
  - Example work
    - Article title to do with topic and link to its scholia page
- Co-occurring topics graph
  - Only a maximum of the 400 most often occuring links are shown
    - E.g. Brazil, genomics, antibody, West Nile Virus etc.
  - ?topic1 ?topic1Label ?topic2 ?topic2Label
  - A topic point contains following information:
    - Zusammensetzung des Virusgenoms
    - Ursache von
    - Medizinisches Fachgebiet
    - Übergeordnetes Taxon
    - Taxonomisher Rang
    - Arbeitsliste eines Wikimedia-Projekts
    - Ist ein(e) (e.g. taxon)
    - Unterklasse von ->Anzahl
  - If a country is a topic:
    - Zeitzone

- - - Amtssprache
    - Notrufnummer
    - Hauptstadt
    - Währung
    - Flagge
    - Hymne
    - Top-Level-Domain
    - Kategorie für Personen mit Bezug
    - Diplomatische Beziehung
    - Währung
    - Liegt in der Verwaltungdeinheit
    - Leiter der Regierung
    - etc.
- Co-occurring topics map
  - Location geotags for each topic
  - Displayed on maps
  - ?location ?locationLabel
  - ?geo
  - ?example_work ?example_workLabel
- Author score
  - Authors scored according to field of work, publications within the topic and citing works within the topic.
  - Displays a weighted bubble with the Authors name
  - ?score ?author ?authorLabel
  - ?cited_work wdt:P50 ?author .
- Author score Table
  - Score
  - Author name and scholia page link
  - Example work title and scholia page link
- Venues and series publishing works about the topic
  - ?count ?short_name ?venue ?venueLabel ?work
  - Count
  - Short name for Venue (e.g. PLOS NTDs)
  - Venue with scholia page link (e.g. PLOS Neglected Tropical Diseases)
- Work cited from works on the topic
  - ?count ?cited_work ?cited_workLabel ?work
  - Count
  - Cited work (its title and link to scholia page)
  - Intends to show the most cited works for the given topic.
- Authors cited from works on the topic

- ○ ?number_of_citations ?author ?authorLabel ?cited_work_example ?cited_work_exampleLabel
- ○ ?author ?work ?cited_work
- ○ Number of citations
- ○ Author name and link to scholia page
- ○ Cited work example
  - ■ Article name by author and link to scholia page

Prize (e.g. Jorck's Prize (Q27864180) https://tools.wmflabs.org/scholia/award/Q27864180):

Representations of data:

- List of recipients
  - ○ ?year
  - ○ ?recipient ?recipientLabel
  - ○ ?example_work ?example_workLabel
  - ○ ?award_statement ?time ? work
  - ○ Year
  - ○ Recipient name and link to their scholia page
  - ○ Example work
    - ■ Title and scholia page link for given article
- Images of recipients
  - ○ ?year
  - ○ ?recipient ?recipientLabel
  - ○ ?image
  - ○ ?award_statement
- Topics of works by recipients
  - ○ The most popular topic for recipients of award
  - ○ ?count ?topic ?topicLabel
  - ○ ?work ?count ?recipient
- Recent publications by recipients
  - ○ Publication date
  - ○ The name and scholia link of the published work
  - ○ Recipient name and scholia link
- Co-awards
  - ○ ?number_of_corecipients ?award ?awardLabel ?recipient
  - ○ Not always available
- Location of recipients
  - ○ Shows locations on map of the recipients
  - ○ ?recipient ?recipientLabel ?image ?item ?itemLabel ?geo ?layer
  - ○ ?property_item_label ?property ?property_item

- Gender distribution
  - ?count ?gender ?genderLabel
  - ?recipient ?gender
  - Show how many women and men have won the award respectively

Comparisons:

Organizations (e.g. https://tools.wmflabs.org/scholia/organizations/Q1269766,Q193196) :

- The Organizations being compared:
  - Their name and scholia page links
  - Description (e.g. University)
  - Location (Name and scholia page link for location)
  - Country Name and scholia page link
- Co-authorships
  - Name and scholia link for Author 1
  - Name and scholia link for Author 2
  - Work they both worked on
    - Name and scholia link for the given work
  - ?author1 ?author1Label ?author2 ?author2Label ?work ?workLabel
  - ?organization1 ?organization2
- Works per year
  - Line graphs comparing the number of works published over time between the two organizations
  - ?year (COUNT(?work) AS ?number_of_works) ?organization ?organizationLabel
- Citations per year
  - Line graphs comparing the amount of citations of works from each organization over time
  - ?year_of_citation
  - ?number_of_citations
  - ?organization ?organizationLabel
  - ?citing_work ?publication_date
- Citations to works ratio
  - The ratio between the number of citations received and the works authored per organization per year.
  - (?year_of_citation AS ?year)
  - (?number_of_citations/?number_of_works AS ?citations_to_works_ratio)
  - ?number_of_works
  - ?number_of_citations

- ○ ?organization ?organizationLabel
- ○ ?citing_publication_date
- ● Topics
  - ○ Tree map of most common topics in works authored by people associated with the organizations
  - ○ ?number_of_works
  - ○ ?topic ?topicLabel
  - ○ ?organization ?organizationLabel
- ● Topics Table
  - ○ Number of works
  - ○ For the given Topic name and scholia page link
  - ○ The associated Organization and its scholia page link

Authors:

- ● List of Authors being compared
  - ○ Author name and scholia page link
  - ○ Description (e.g. prof, of Semantic Web tech)
  - ○ Example work
    - ■ Name and scholia page link to given article
- ● List of common authored works
  - ○ List of works in which the chosen authors were co-authors
  - ○ Co-author count
  - ○ Work
    - ■ Name and scholia link to topic page
  - ○ Name of Authors
  - ○ ?coauthor_count ?work ?workLabel ?authors
- ● Number of works per publication year
  - ○ It shows bar graphs comparing the amount each author published in each given year
  - ○ ?year ?number_of_works ?author ?author_label
  - ○ ?publication_date
- ● Number of citations per publication year
  - ○ Compares how often each author is cited for their work in other works over time
  - ○ ?year ?number_of_citations ?author ?author_label
  - ○ ?work ?publication_date
- ● Co-author graph
  - ○ ?author ?authorLabel ?work ?workLabel
  - ○ It shows how works all authors worked on connect to each other
  - ○ It also indicates additional co-authors not part of the comparison
  - ○ E.g. Tim Berners-Lee connects the other two authors as he worked with both, but they never worked together on their own.

Notes:

- Any information available in graphs is taken from the Wikidata database
  - As such it might not need to be added by Team #1
  - The information available also depends on type of data e.g Person, country, topic etc. which changes the information displayed in the graph
- Locations and Countries are displayed using the Topic template