EDAM
The bioscientific data analysis ontology
(update 2021)

Melissa Black[1], Lucie Lamothe[2], Hager Eldakroury[3], Mads Kierkegaard[4], Ankita Priya[5], Anne Machinda[6], Uttam Singh Khanduja[7], Drashti Patoliya[8], Rashika Rathi[9], Tawah Peggy Che Nico[10], Gloria Umutesi[11], Claudia Blankenburg[12], Anita Op[13], Precious Chieke[13], Omodolapo Babatunde[13], ZM202[13], ellschi[14], Steve Laurie[15], Steffen Neumann[12], Veit Schwämmle[4], Ivan Kuzmin[16], Chris Hunter[17], Jonathan Karr[18], Jon Ison[2], Alban Gaignard[19], Bryan Brancotte[20], Hervé Ménager[20], Matúš Kalaš[21]

[1]Outreachy intern (EDAM), São Paulo, **Brazil**; [2]Institut Français de Bioinformatique, **France** (J.I. at the time of contribution); [3]Outreachy intern (EDAM), Cairo, **Egypt**; [4]University of Southern Denmark, Ødense, **Denmark**; [5]Birla Institute of Technology, Mesra, **India**; [6]independent contributor, Bamenda, **Cameroon**; [7]Medicaps University, Indore, **India**; [8]independent contributor, Surat, **India**; [9]Indian Institute of Technology, Mandi, **India**; [10]University of Buea, **Cameroon**; [11]independent contributor, Kigali, **Rwanda**; [12]Leibnitz Institute of Plant Biochemistry, Halle, **Germany**; [13]independent contributor, **Nigeria**; [14]independent contributor, **Germany**; [15]Centre Nacional d'Anàlisi Genòmica, Barcelona, **Spain**; [16]University of Tartu, **Estonia**; [17]GigaScience GigaDB, Hong Kong, **China**; [18]Icahn School of Medicine at Mount Sinai, New York City, **U.S.**; [19]University of Nantes, **France**; [20]Institut Pasteur, Paris, **France**; [21]University of Bergen, **Norway**.

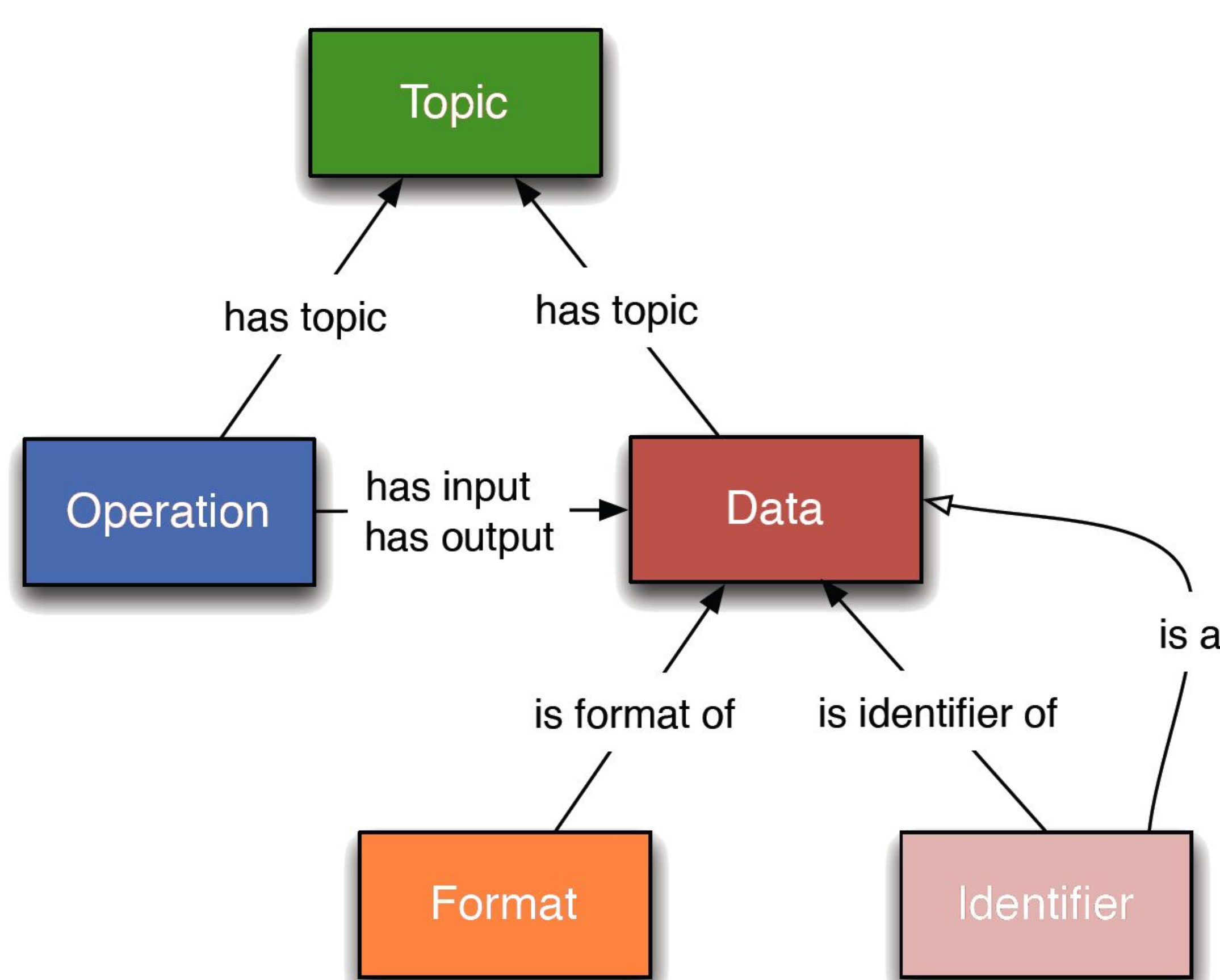All logoi are with links, clickable https://edamontology.org 2021

What is EDAM?

EDAM is an ontology of **data analysis** and **data management** in life sciences.

The structure of EDAM is relatively simple, divided into 4 main sections: *Topic*, *Operation*, *Data*, and *Format*.
(*Identifier* is a special kind of *Data*.)

Why EDAM?

EDAM is used across numerous resources, for example:

Thanks to the annotations with EDAM, **computational tools**, **workflows**, **data**, and **educational materials** are easier to find, compare, choose, and integrate.

In addition, EDAM contributes to **open science** by providing concepts for annotation of processed data, thus making the data more understandable, findable, and comparable.

Browse EDAM at

Download EDAM in various formats: OWL, TSV, CSV

Examples of concepts in EDAM

Browse interactively at
https://bioportal.bioontology.org/ontologies/EDAM?p=classes

EDAM-bioimaging

News 2021

- Easier to **contribute**
- Improved automated **validation** (CI)
- Main focus on **inclusion** and **engagement** with communities of scientific experts, software engineers, and volunteers
- Therefore new contributors and new **collaborations**. 🫱
  And welcoming more! 😊
- *News from the applications:* Galaxy can now visualise the tools panel sorted by EDAM. 🌌

EDAM tools

EDAM Browser is an ontology browser with special user-oriented features, such as aggregated search across various resources (*e.g.* Bio.tools, TeSS), and **suggesting changes** to EDAM.
edamontology.github.io/edam-browser

EDAM Popovers is a web-browser add-on/extension for showing details of EDAM concepts selected in any website.

EDAMmap is a tool for text mining EDAM concepts from articles.
biit.cs.ut.ee/edammap

EDAM is an open source community

github.com/edamontology/edamontology

License:

twitter.com/edamontology

Join the community chat at gitter.im/edamontology/edamontology