

swiss.open.cultural
data.hackathon

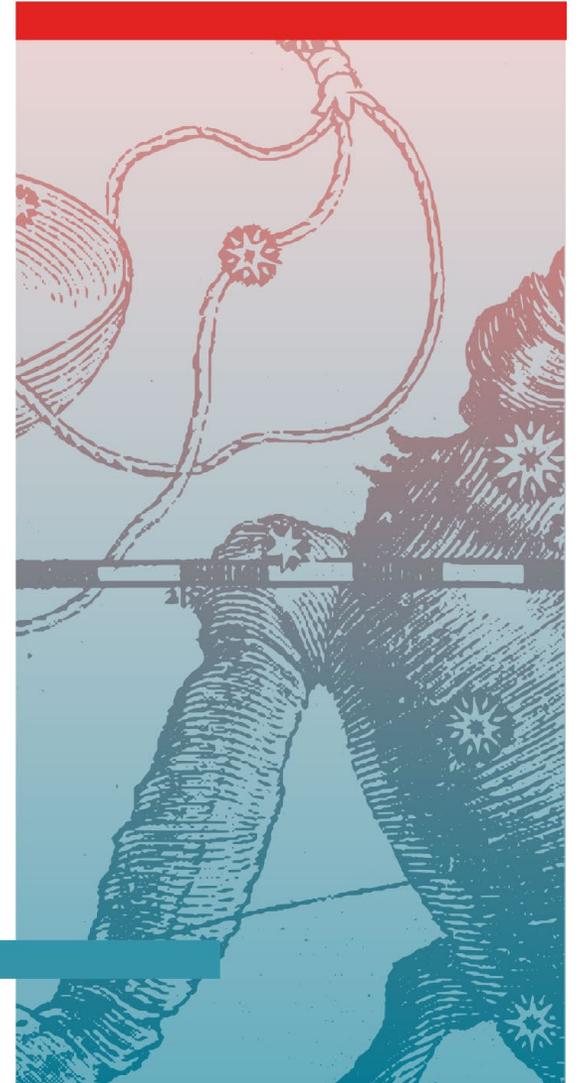
GLAMhack 2021

Warm-up Session – Datasets and Brainstorming

Michael Gasser
ETH Library, Head Collections and Archives
3 March 2021



#GLAMhack2021





Swiss Open Cultural Data Hackathon 2018, Swiss National Museum, Zürich. Wikimedia Commons, User:TomBo79, CC BY-SA 4.0

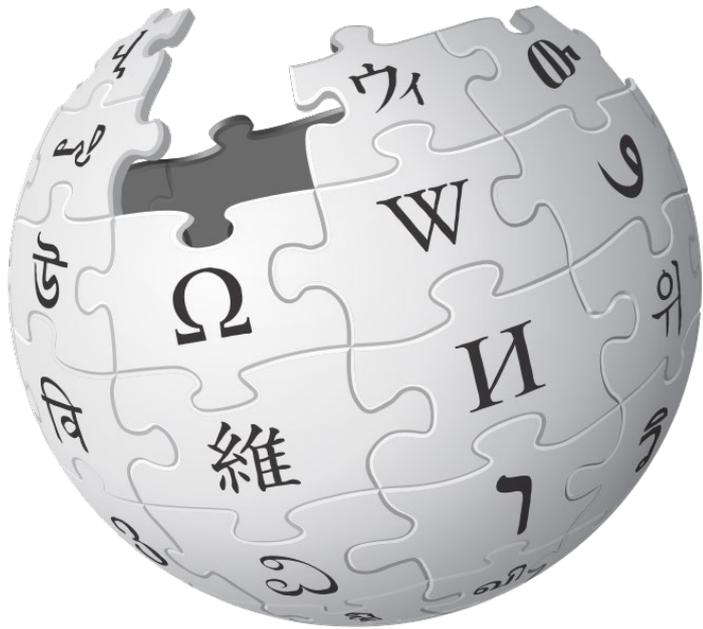
Introduction to the Swiss Open Cultural Data Hackathon

Beat Estermann, GLAMhack 2021 Warm-up Session, 3 March 2021

Goals of OpenGLAM

Let's engage global audiences!
(go where the people are!)

Google



You Tube

Let's create new possibilities for participation by users / visitors



Let's facilitate the re-use of heritage items, their digital representations, and the information about them



Main page
Welcome
Community portal
Village pump
Help center

Participate
Upload file
Recent changes
Latest files
Random file
Contact us

Tools
What links here
Related changes
Special pages
Permanent link
Page information
Nominate for deletion
Crop
MapWarper

English Beat Estermann 0 Talk Preferences Beta Watchlist Contributions Uploads Log out

File Discussion

View Edit History More

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File:Basle Munster treasury StChristopher 1933-160 HMB c4214.jpg

From Wikimedia Commons, the free media repository

Download Use this file Use this file Email a link Information



Summary

Object

Title	St Christopher from the treasury of Basle Munster
Description	Basle, ca. 1445; Silver, embossed, parcel gilt; height 44.2 cm; Inv. 1933.160.
Date	2. Viertel 15. Jh.
Medium	Silber (z.T. vergoldet), getrieben, gegossen, ziseliert
Dimensions	H. 44,2 cm, Gewicht 1315,9 g
Current location	Basel Historical Museum   
Accession number	Inv. 1933.160.
Object history	Münsterschatz Basel
Permission <small>(Reusing this file)</small>	<div><p>This work is in the public domain in the United States, and those countries with a copyright term of life of the author plus 100 years or less.</p><p><small>This file has been identified as being free of known restrictions under copyright law, including all related and neighboring rights.</small></p></div>

Open Cultural Data Hackathons



Swiss Heritage Data

This page contains a list of open heritage data from and/or about Switzerland. **New arrivals** since the last Open Cultural Data have been highlighted with a . Feel free to add any further datasets that are in line with the [OpenGLAM Principles](#).

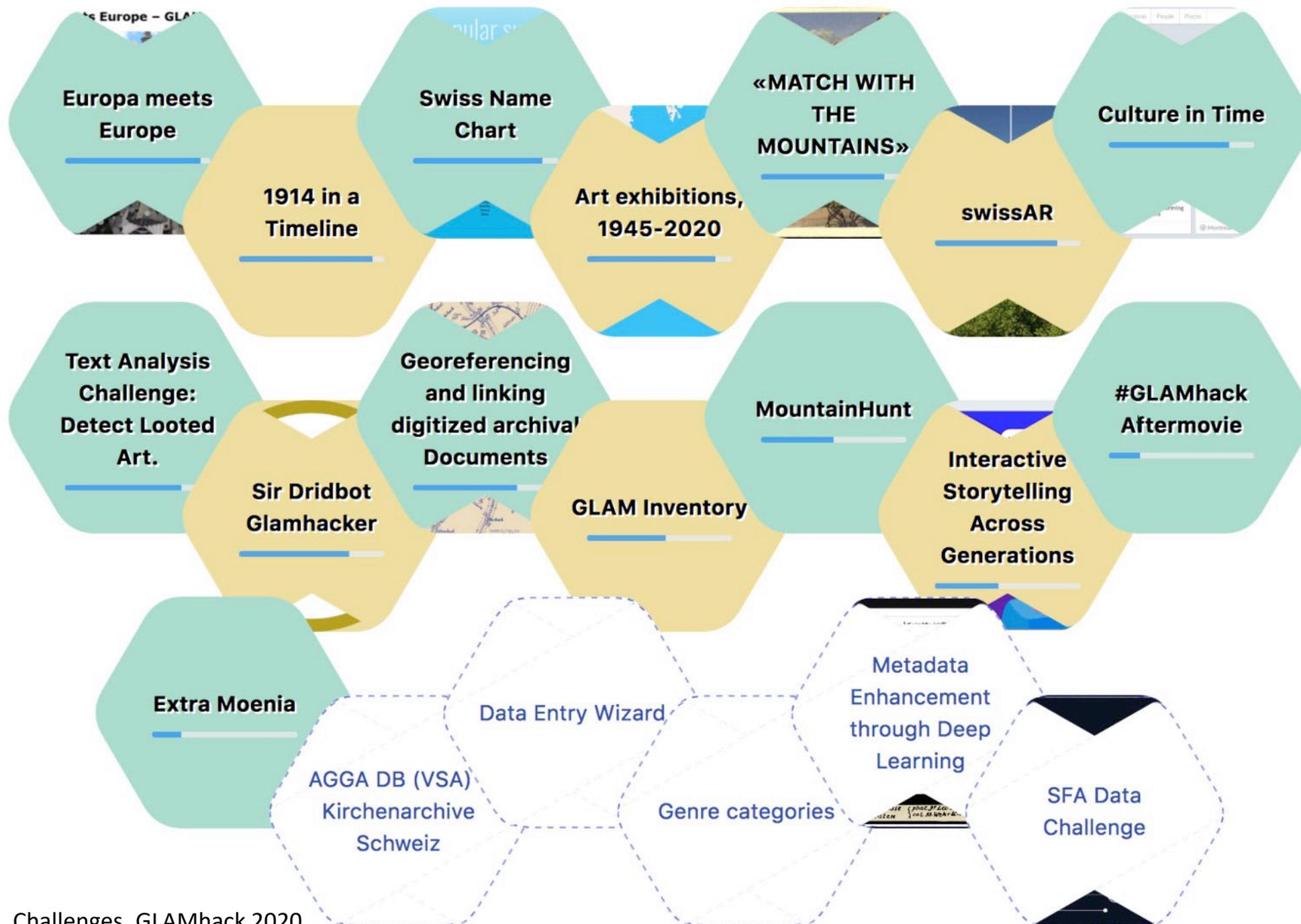
Save for a small number of [exceptions listed below](#), GLAM datasets for the hackathon are being published and promoted on [opendata.swiss](#), the national open data registry. GLAM datasets on opendata.swiss can be found via their tags [glam](#) and [openglam](#) (for English, French, German and Italian).

Data providers are invited to manage the description of their data themselves under their own organizational account on [opendata.swiss](#). As an exception, the OpenGLAM CH Working Group may take care of the listing of the data on behalf of data providers which do not have their own user account on opendata.swiss (yet).

Note that we are in an ongoing dialogue with the Federal Statistical Office, who are running opendata.swiss, in view of the improvement of the platform with regard to the presentation of heritage data. If you have any suggestions or comments in this regard, please let us know: [info\(at\)openglam.ch](mailto:info(at)openglam.ch)

opendata.swiss

- Archives cantonales jurassiennes (State Archives of the Canton of Jura)
 - [Photos of the Canton of Jura 1892–1932 by Eugène Cattin](#)
- Archives cantonales vaudoises (State Archives of the Canton of Vaud)
 - [Selection of photographs collected by the archaeologist Albert Naef](#)
- Archives d'Etat de Genève (State Archives of the Canton of Geneva)
 - **Inventories of Historical Collections**
- Archives of Contemporary History / Archiv für Zeitgeschichte, ETH Zürich
 - [VSJF-Refugees Migration 1898–1975](#)
- Archiv Ortsgeschichte Wetzikon (Municipal Archives Wetzikon)
 - [Historical Photographs of Wetzikon](#)
- Archives de l'Etat du Valais
 - [Metadata from the Valais Archive](#)
- Baden Municipal Archives
 - [Images in the archive of the city of Baden, Switzerland](#)
- Bern University of the Arts
 - [Ehrenreich Collection Database \(Opera artists and composers\)](#)
- Bibliothèque cantonale et universitaire Lausanne BCUL
 - **Personnalités Vaudoises**
 - [Photographs of Contemporary Musicians of the Canton of Vaud](#)
- Büro für Fotografiengeschichte Bern
 - [Swiss Photography Metadata](#)
- Canton of Zurich – Monuments Protection Service
 - **Inventory of Historical Monuments (Canton of Zurich)**





Glamhack0 Glamhack0 (Gastgeber)



Beat Estermann

Herzlich willkommen



Regie5



Ann-Kathrin Seyffer



anne.bosche



Barbara Cocchini



Bazak-H



Birk Weiberg



Caitlin Troughton



Christian



Daniel Burkhard



danilo



Debora Lopomo



demian spescha



Dominik Sievi



Emily Lomax



Enrico Natale



Florence Meier



Geruscha Lau



Giovanni



Iolanda Pensa



Ishan Mishra



Johannes Nussbaum



Julia Beck



Kenny Floria

Screenshot, GLAMhack 2020, Opening Session



Swiss Cultural Hackathon at the Swiss National Library. Photo: Infoclio. CC BY-SA



Portrait Domain!

A social network for the digitally uprooted

@loleg

Computer
Masks
Games

+ Adrian @thgiex

+ Ste Fauri KMP

Museris 3.0

link the data & images of Lausanne museums to geoapps + games @ratio

Interested!
TAKE-A-BREATH.ch
→ Adrian 😊

Swiss Games!

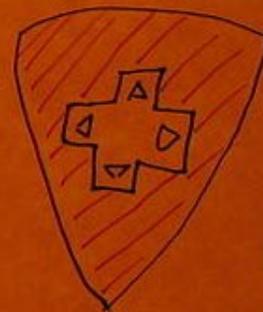
what where when?

@zarkonnen-com
David Stark

+ Ste Fauri KMP

E. Nöcker

@yrochat (maybe!)





Swiss Cultural Hackathon at the Swiss National Library. Photo: Infoclio. CC BY-SA



Swiss Cultural Hackathon at the Swiss National Library. Photo: Swiss National Library; Simon Schmid, Fabian Scherler. CC BY-SA





GLAMhack 2015, Final Presentations, User:Bettelorden, Wikimedia Commons, CC BY 4.0

#GLAMHACK 2020

ONLINE EDITION





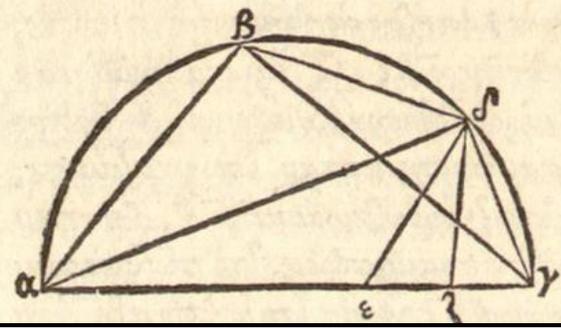
- Kollektionen** ⓘ
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 - Privatbibliotheken
 - Schweizer Drucke
 - Themen und Sammlungen

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- Titel
 - Autor, Beteiligte
 - Druckort
 - Drucker / Verlag
 - Jahr
 - Neuzugänge

10

ΜΑΘΗΜΑΤΙΚ. ΣΥΝΤΑΞΕΩΣ.

καὶ ἀπὸ τῶν αὐτῶν αὐτῶν ἀγῶν κἀκεῖνος ἡχθῶν ἢ δζ, λέγω ὅτι ἢ ζγ, ἡμίσεια δὲ τῶν αβ καὶ αγ ὑπεροχῆς. λέειδω γὰρ τῆ αβ ἴση ἢ αε, καὶ ἐπεζεύχθω ἢ δε. ἐπεὶ ἴση ἐστὶν ἢ αβ τῆ αε, κοινὴ δὲ ἢ αδ, δύο δὴ αὖ αβ αδ, δύο ταῦς αε αδ, ἴσαι εἰσὶν ἑκατέρωθεν ἑκατέρωθεν, ἢ γωνία ἢ ὑπὸ βαδ, γωνία τῆ ὑπὸ εαδ ἴση δὲ. ἢ βάσις ἀρᾶ ἢ βδτ, βάσει τῆ δε, ἴση δὲ. ἀλλὰ ἢ βδ, τῆ δε ἴση δὲ. καὶ ἢ δε ἀρᾶ τῆ δε ἴση δὲ. ἐπεὶ οὖν ἰσοσκελοῦς ὄντος τριγώνου τῶν δεγ, ἀπὸ τῆ κορυφῆς αὐτοῦ τῆ βάσις κἀκεῖνος ἡκται ἢ δζ, ἴση δὲ ἢ εζ, τῆ ζγ. ἀλλ' ἢ εγ ὅλη ἢ ὑπεροχὴ ἐστὶ τῶν αβ καὶ αγ ἐνθεῶν, ἢ ἀρᾶ ζγ ἡμίσεια δὲ τῶν αὐτῶν ὑπεροχῆς. ὥστε, ἐπεὶ τῶν αβγ περιφέρειαι ἐνθεῶν ὑποκεκλιμῆς, αὐτόθεν διεδοτῆ ἢ λείπουσα εἰς τὸ ἡμικύκλιον ἢ αβ, δεθήσεται καὶ ἢ ζγ ἡμίσεια οὖσα τῶν αβ καὶ αβ ὑπεροχῆς. ἀλλ' ἐπεὶ γὰρ ὀρθογώνιον τῶν αβδ καθεῖ του ἀχθείσης τῆ δζ, ἰσογώνιον γίνεται τὸ αδγ ὀρθογώνιον τῶν δεγ, καὶ ἐστὶν ὡς ἢ αγ πρὸς γδ, ἢ γδ πρὸς εζ, τὸ ἀρᾶ ὑπὸ τῶν αβ γδ περιεχόμενον ὀρθογώνιον, ἴσον δὲ τῶν αβ γδ τετραγώνω. ὥστε ἢ μήκη ἢ γδ ἐνθεῶν δεθήσεται, τῶν ἡμίσεια ὑποτείνουσα τῶν βγ περιφέρειας. καὶ δεῖα οὕτως δὴ πάλιν τοῦ θεωρήματος ἀλλὰ τε ληφθέντων πλείονα ἢ τὰς ἡμίσειας τῶν προεκτεθειμένων, ἢ δὴ καὶ ἀπὸ τῶν βγ μοιρῶν ὑποτείνουσης ἐνθεῶν, ἢ τε ὑπὸ τὰς ε, ἢ ὑπὸ τὰς γ, καὶ ἢ ὑπὸ τῶν αβ, καὶ ἢ ὑπὸ τῶν εδ τῶν μιᾶς μοίρας. εὐρίσκειται δὲ ἐκ τῶν ἐπιλογισ-



γώνω. ὥστε ἢ μήκη ἢ γδ ἐνθεῶν δεθήσεται, τῶν ἡμίσεια ὑποτείνουσα τῶν βγ περιφέρειας. καὶ δεῖα οὕτως δὴ πάλιν τοῦ θεωρήματος ἀλλὰ τε ληφθέντων πλείονα ἢ τὰς ἡμίσειας τῶν προεκτεθειμένων, ἢ δὴ καὶ ἀπὸ τῶν βγ μοιρῶν ὑποτείνουσης ἐνθεῶν, ἢ τε ὑπὸ τὰς ε, ἢ ὑπὸ τὰς γ, καὶ ἢ ὑπὸ τῶν αβ, καὶ ἢ ὑπὸ τῶν εδ τῶν μιᾶς μοίρας. εὐρίσκειται δὲ ἐκ τῶν ἐπιλογισ-

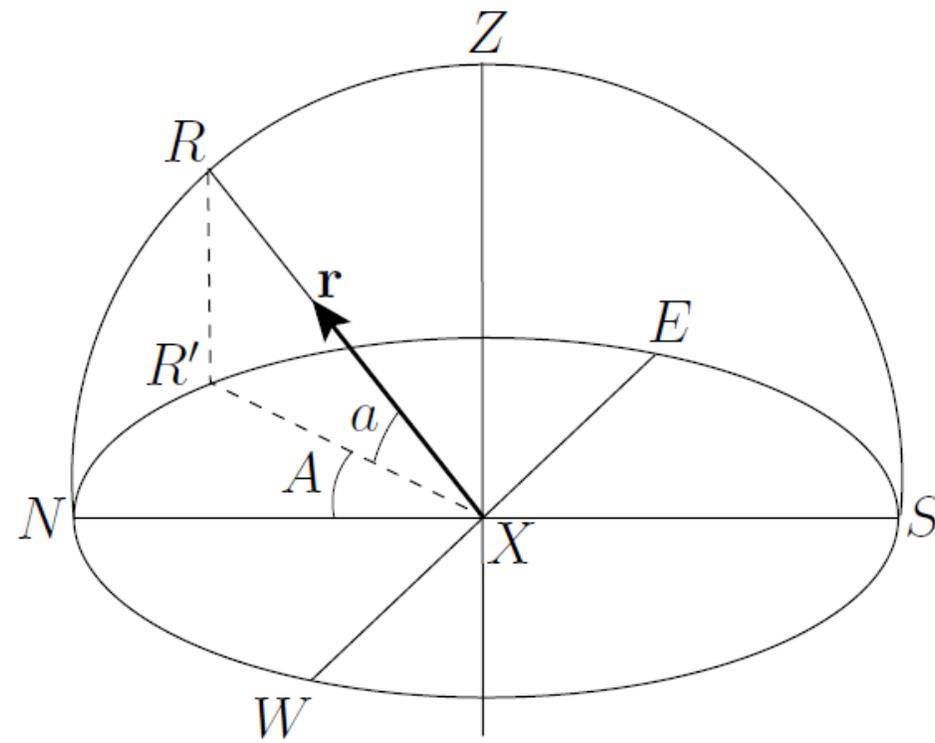
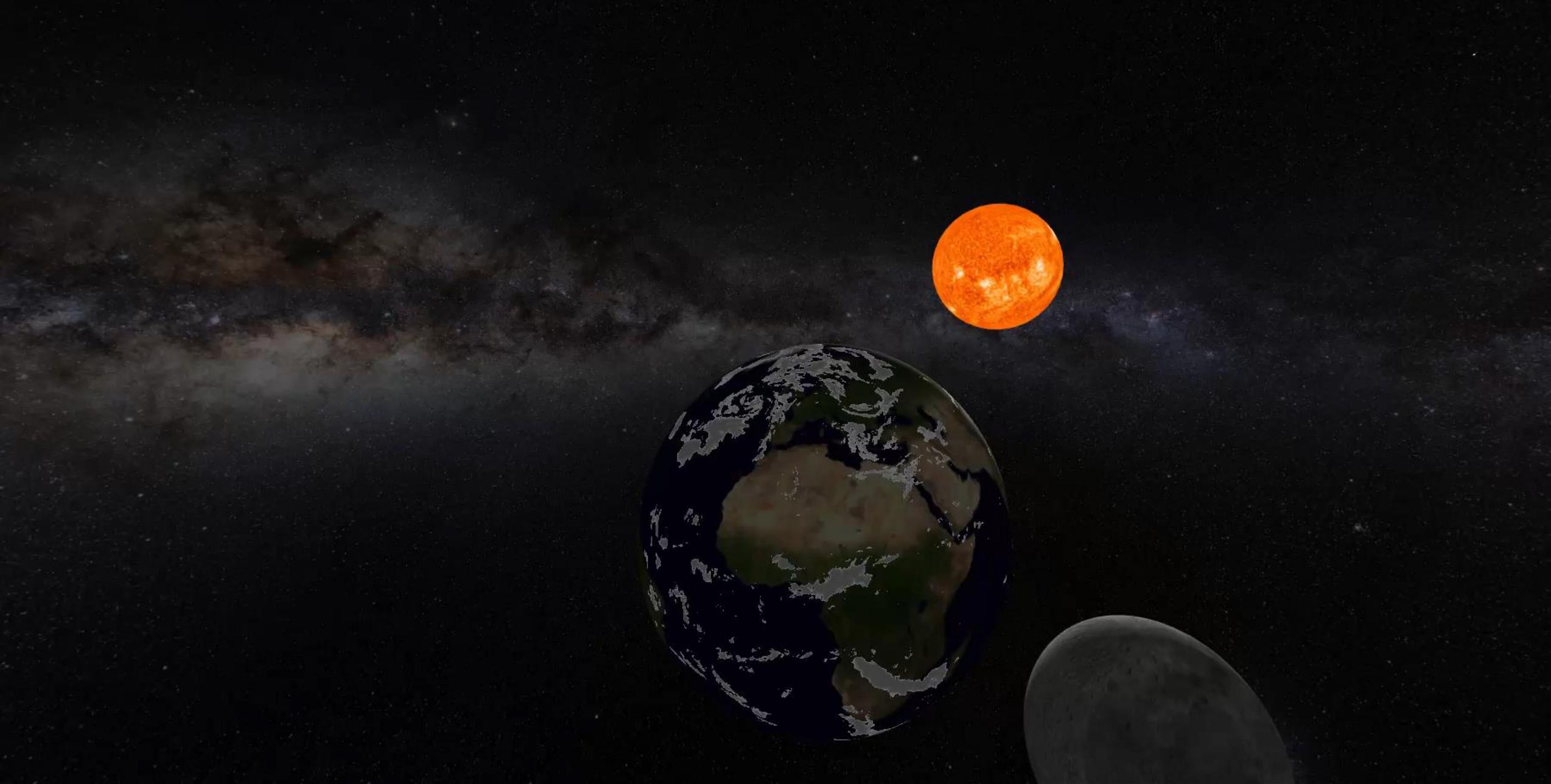


Figure 2.9: *Horizontal coordinates. R is a celestial object, and R' its projection onto the horizontal plane, NESW.*

where \mathbf{r} is a unit vector directed from X to R. Hence, it follows from Eqs. (2.1), and (2.22)–(2.23), that

$$\sin a = \sin L \sin \delta + \cos L \cos \delta \cos(\alpha - \alpha_0), \quad (2.30)$$

$$\tan A = \frac{\cos \delta \sin(\alpha - \alpha_0)}{\cos L \sin \delta - \sin L \cos \delta \cos(\alpha - \alpha_0)}. \quad (2.31)$$



thomasweibel.ch/back-to-the-greek-universe



File:Aldus Manutius, Horatius Flaccus, Opera, Venedig 1501.tif

Wikimedia Commons auf Deutsch

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[Metadata](#)

CARM.

Affulsit, populo gravior it dies,
Et soles melius nitent.
Vt mater iuuenem, quem notus inuido
Flatu Carpathii trans maris æquora
Cunctantem spacio longius anno
Dulci detinet à domo,
Votis, omnibusq; et precibus uocat,
Curuo nec faciem littore dimouet,
Sic desyderiis icæta fidelibus
Querit patria Cæsarem.
Tutus bos etenim rura perambulat.
Nutrit rura ceres, almaq; faustitas.
Pacatum uolitant per mare nauitæ.
Culpari metuit fides.
Nullis polluitur casta domus stupris.
Mos, et lex maculosum edomuit nefas.
Laudantur simili prole puerperæ.
Culpam pœna premit comes.
Quis Parthum paucat? quis gelidum Scythen?
Quis, Germana quos horrida parturit,
Fœtus incolumi Cæsare? quis feræ
Bellum curet Iberiæ?
Condit quicquid diem collibus in suis



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Information

about reusing



Laudantur simili

Culpam poer

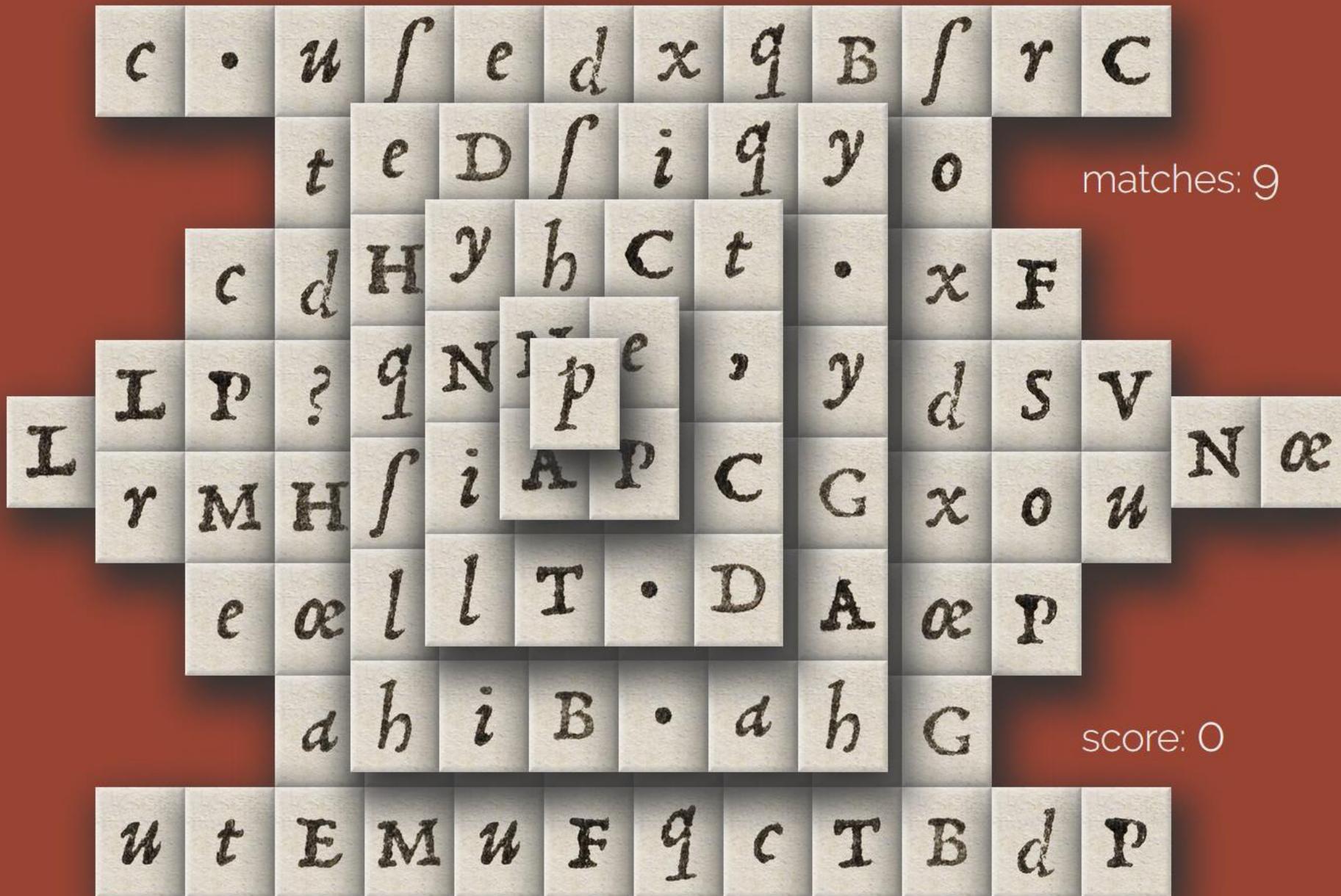
Quis Parthum pa

Quis, Germana que

Fœtus incolummi C

Bellum curet





matches: 9

score: 0

new

undo

reset

about

mail

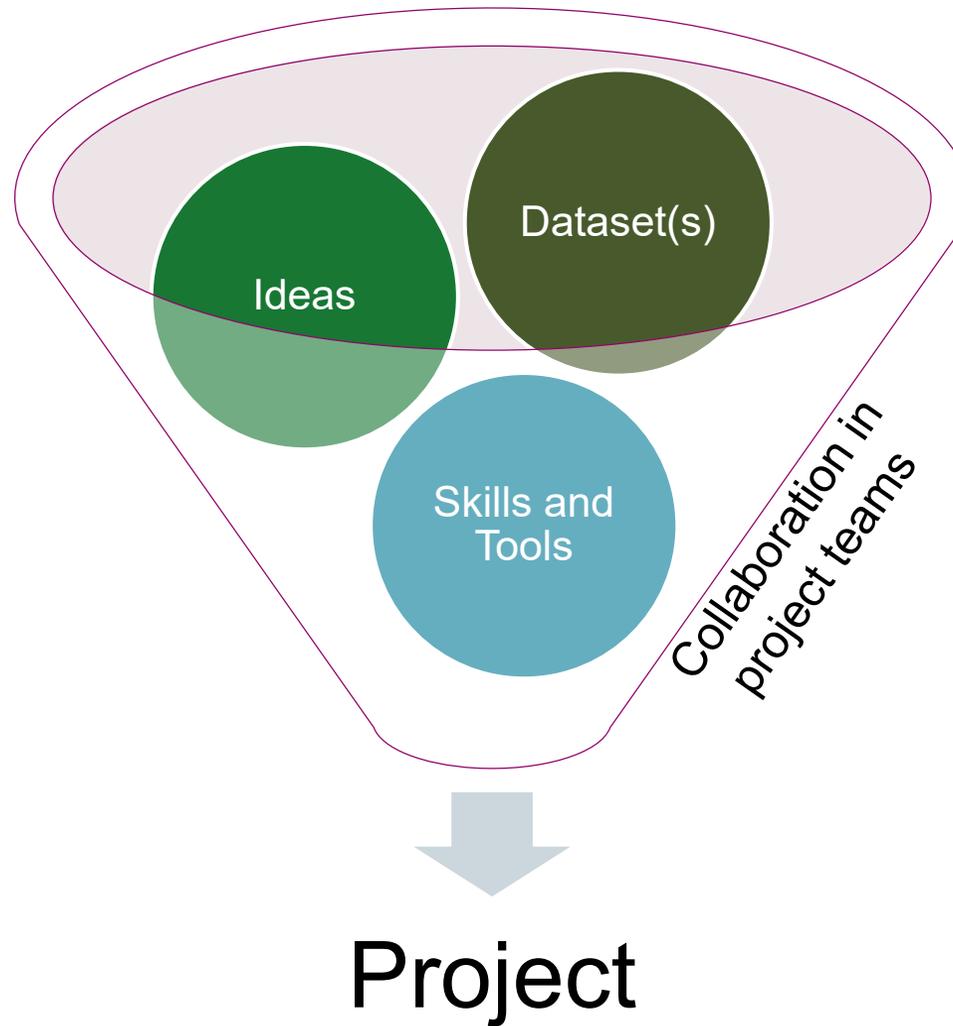


thomasweibel.ch/letterjongg





Ingredients of a GLAMhack project



Get inspired by open datasets

Find Swiss Open Government data

[Learn more about opendata.swiss](#)

7,861
Datasets

Search datasets... 

Access the data catalogue using the API

Content and metadata I: rare books

Platform [e-rara](#)

Thematic collections and private libraries

- Botanics (e.g. [Oswald Heer library](#))
- Astronomy and mathematics (e.g. [Rudolf Wolf library](#))
- Vulcanology ([Immanuel Friedländer library](#))

Access to

- Metadata (OAI-PMH)
- Images (IIIF manifests)
- Fulltext (available for a growing number of titles)

Contact: contact@e-rara.ch

e-rara, the platform for digitized rare books from Swiss institutions

Search for rare books from the 15th to 20th century. Currently 84226 titles are available.



Search e-rara ...

See all 84226 Titles



See newest titles



Content and metadata II: images

Platform E-Pics Image Archive Online

E.g. Collection Documenta Natura

- Images taken to document changes in the Swiss landscape
- Before and after images: comparative documentary photography
- Professional documentation of the Bern based foundation Documenta Natura (1987–2010)
- All images available online
- Further [information about the collection](#)

Contact: [Nicole Graf](#), Image Archive



Südostansicht des Talbodens bei Pozzo Negro südöstlich des Dorfes Bodio vor und während des Baus des Südportals, 1999/2002 ([Dia 303-07775](#), [Dia 303-07781](#), [Dia 303-07790](#), [Dia 303-07793](#))

Content and metadata III: works of art by Harald Naegeli (*1939)

Platform [E-Pics Art Inventory](#)

Collection of graffiti by Harald Naegeli
in the underground car park of
ETH main building

Small collection of 52 photographs

Cf. [Art Walkabout](#)

Contact: [Agnese Quadri](#), Art Inventory



Metadata I: international performances of plays by Max Frisch since 1945



References of about 700 international performances

- Titel of the play
- Date of premiere
- Location
- Theatre
- Language, ...

Dataset [available as an Excel file](#)

Ideal for ...

- data enrichment (links to identifiers)
- data analysis (e.g. which plays were staged most often?)
- enrichment of [WikiProject Theatre](#) or [WikiProject Performing arts](#)
-

Contact: [Tobias Amslinger](#), Max Frisch Archives

Metadata II: query the data underlying ETH Library's discovery system

API for direct access to all library resources

- RESTful API [ETH Library Resource Information Bus](#) (RIB)
- Access to library resources independent of ETH Library @ swisscovery
- Documented according to the OpenAPI 3.0 specification
- [Client to test and generate URL](#)

Examples of dynamic queries for resources

- [All bibliographic metadata](#)
- [All journals](#)
- [All titles published before 1900](#)
- [Points of interest \(ETHorama\) as geoJSON output](#) (→ [documentation](#))

ETH Library: RIB (Resource Information Bus) V3 ^{3.0} ^{OAS3}

Data Services of ETH Library

[RIB Open API Specification](#)

[Terms of service](#)

[Contact RIB API Support](#)

Geodata

3D rooftop model of Zurich

- Complete 3D model of all the buildings in the city (LOD2, 2018)
- Provided by Stadt Zürich, Open Data
- [Access and description](#)

Federal Office of Topography swisstopo

- Switch to [open data access model as of 1 March 2021](#)
- Rich datasets on a national level, e.g.:
- [Digital national maps](#)
- [Height models](#)
- [Landscape models](#)

Showcases featuring 3D-Dachmodell LoD2



Zurich 3D Buildings

Play around with Vasiles CodePen.io playground using the 3D City Model from Zurich.

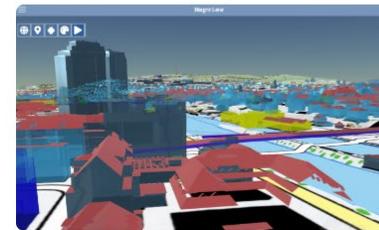
18 Datensätze



«CityGML-to-3DTiles»-Converter

There's a NodeJS script using citygml-to-3dtiles to convert the CityGML data to 3D-Tiles. A Webpack configuration then creates a static website loading the 3D Tiles in Cesium on...

1 Datensatz



Zürich MapView



#GLAMhack2021

Series of events

09 April, 17.00–18.00	Onboarding session
13 April, 17.00–18.30	OpenGLAM – Workshop night
15 April, 15.00–19.00	Pre-event
16–17 April	GLAMhack 2021

→ Free [online registration](#)

→ [#GLAMhack2021 project challenges](#)



@ETH-Bibliothek | 16–17 April 2021

Take part in this year's Swiss Open Cultural Data Hackathon!

ETH Library

Michael Gasser

Head Collections and Archives

michael.gasser@library.ethz.ch

+ 41 632 21 82

 [@M_Gasser](https://twitter.com/M_Gasser)

www.library.ethz.ch

