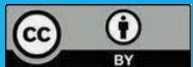


Free and open-source tools for interactive training

Milica Ševkušić
EIFL



EIFL Open Science Bootcamp

Models

- **Freeware**: free to use but code is usually not open
- **FOSS/FLOSS** (free (libre) and open-source software) / free to use, access to the source code, can be modified
- **Freemium**: basic options are free, advanced options for pay
- **Free trial**: free to use but limited in an important way (time limits are usually involved)

Pay attention to:

- Terms and conditions (time and usage limitations)
- Privacy policy (e.g. what happens with uploaded data)
- Can you download and export your work?
- Export formats (interoperability)
- Sustainability of the service (difficult to assess)
- Alternatives and the exit strategy

Presentations

- Google Slides (free), web + app
- Apache OpenOffice Impress (FOSS), app
- LibreOffice Impress (FOSS), app
- Canva (freemium), web
- Prezi (free trial) web
- Markdown presentation tools
 - Web-based: <https://codimd.globenet.org/>
 - Apps: <https://marp.app/>
- Other formats (html, html5, JavaScript)

Presentation templates

- SlidesCarnival (CC BY) <https://www.slidescarnival.com/>
- Vecteezy (freemium) <https://www.vecteezy.com/>
- SlidesGo (freemium) <https://slidesgo.com/>
- Canva (freemium) <https://www.canva.com/>

Free PPT templates & Google Slides themes for your presentations

Free for any use, no registration or download limits

Search template



Popular searches



Education



Technology



Business



Healthcare

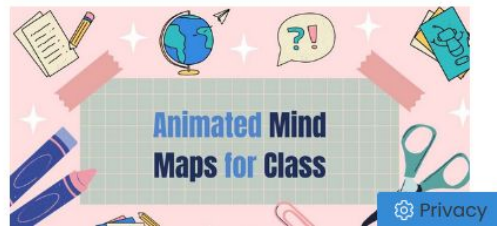
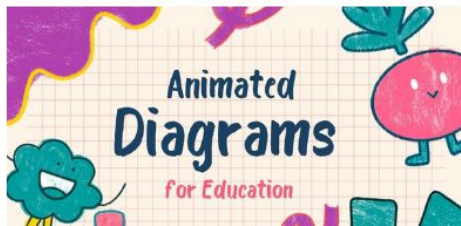


Backgrounds



Animated

Recent published templates



Video

- Canva (freemium) <https://www.canva.com/>, web. Tip: combine animated slides and videos and export to MP4 - easy
- [OBS Studio https://obsproject.com/](https://obsproject.com/) (FOSS) app (Linux, Mac, Windows)
- Avidemux (FOSS) app
<https://avidemux.sourceforge.net/download.html>

Image sources

Pexels	https://www.pexels.com/	https://www.pexels.com/license/
Unsplash	https://unsplash.com/	https://unsplash.com/license
Wikimedia Commons	https://commons.wikimedia.org/wiki/Main_Page	mostly CC BY-SA, but also public domain
Openverse	https://wordpress.org/openverse/?referrer=creativecommons.org	CC (all)
Pixnio	https://pixnio.com/	CC0 (https://pixnio.com/terms)
Pixabay	https://pixabay.com	https://pixabay.com/service/license/
Flickr	https://www.flickr.com	All licences
Public domain vectors	https://publicdomainvectors.org/	CC0 (https://publicdomainvectors.org/en/public-domain/)
Vecteezy	https://www.vecteezy.com/	Attribution required + limitations

Image editors

- GNU Image Manipulation Program (GIMP) (FOSS)
<https://www.gimp.org/>
- Inkscape (FOSS) vector images <https://inkscape.org/>

Image management:

- [Irfan View](#) (freeware, non-commercial), app

Infographics

Mostly freemium, editable templates, limited export options, limited number, or must be public

- Freepik: <https://www.freepik.com/free-photos-vectors/infographic>
- Canva
- Infogram: <https://infogram.com/>
- Genially (freemium), in Spanish <https://app.genial.ly/> (Games!)

Tip: Slides Carnival presentations have elements that can be combined to create infographics, e.g.

<https://www.slidescarnival.com/project-management-infographic/19336>

Timelines

- TimelineJS (FOSS) <https://timeline.knightlab.com/>
 - TimeGraphics (freemium) <https://time.graphics/>
- Example: <https://time.graphics/line/314977>

Nice but not reusable:

- Limited number of events can be created and exported
- PNG export (not interactive if exported)
- PDF export has watermark

Interactive diagrams

D3.js (FOSS) <https://d3js.org/>, some coding required

Observable <https://observablehq.com/> (freemium) limitation: public only, presets that can be forked, less coding

Maps

<http://umap.openstreetmap.fr/en/>

Export

License data

Download data

Full map data

geojson

gpx

kml

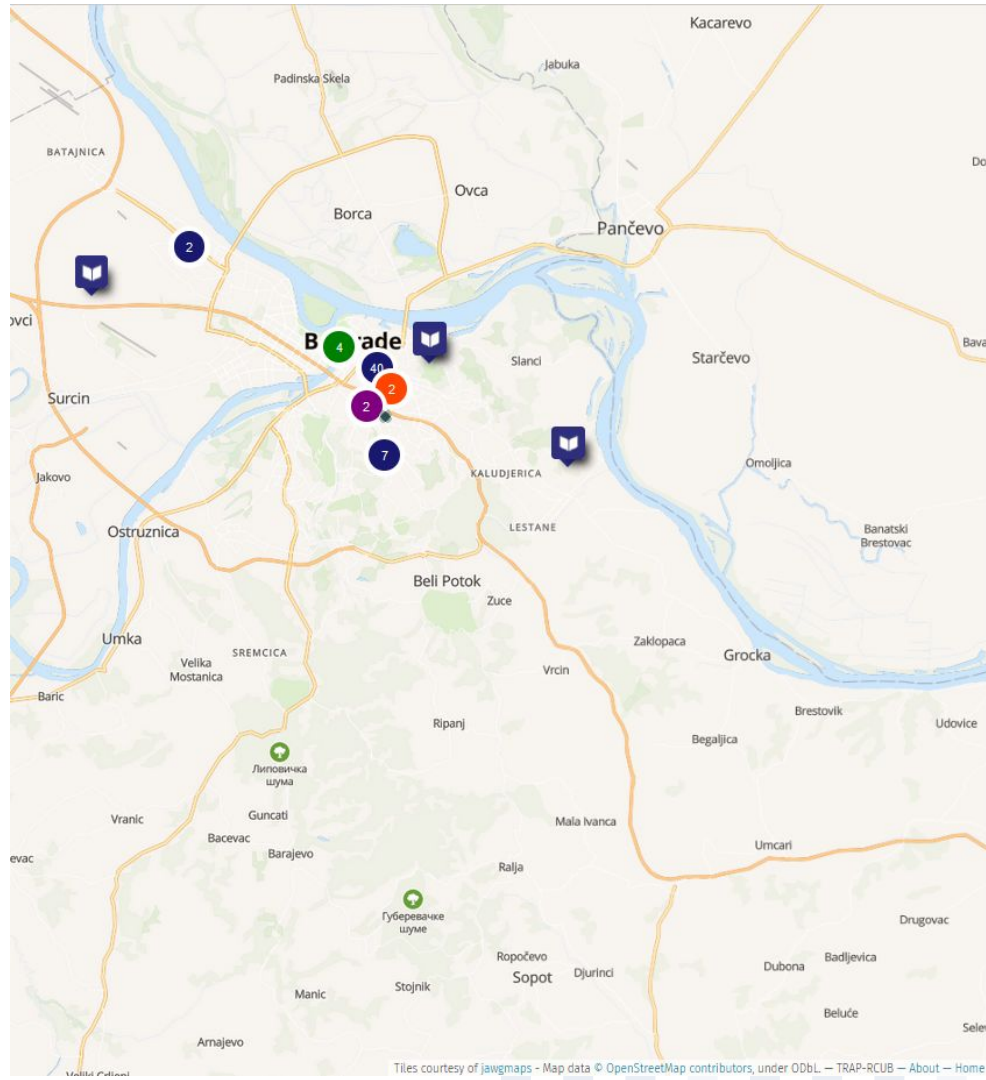
Full map data

Example

https://umap.openstreetmap.fr/en/map/repositories-in-serbia_701341#13/44.7738/20.5158

Map of repositories in Serbia

Data can be exported



Repositories in Serbia

Filter...

Institutional repositories

- AgroSpace – Repository of the University of Belgrad.
- BIORepository – Repository of the University of Belg...
- CER - Central Repository of the Institute of Chemistr...
- Cherry - University of Belgrade - Faculty of Chemistry
- DAIS - Digital Archive of the Serbian Academy of Sci...
- DAIS - Geographical Institute "Jovan Cvijić" SASA
- DAIS - Institute for Balkan Studies SASA
- DAIS - Institute for Byzantine Studies SASA
- DAIS - Institute for the Serbian Language of SASA
- DAIS - Institute of Ethnography of SASA
- DAIS - Institute of Technical Sciences of SASA
- DAIS - SASA Institute of Musicology
- DIRIKUM – Repository of the Institute for Literature
- Dr RGF – Repository of the University of Belgrade - F...
- FarFar – Repository of the University of Belgrade - F...
- FIVEr – Repository of the Institute of Field and Vege...
- Gery – Repository of the University of Belgrade - Fac...
- GraFar – Repository of the University of Belgrade - F...
- InTor – Repository of the Institute of Virology, Vaccin...
- IPIR – Repository of the Institute for Educational Re...
- IRIES – Repository of the Institute of Economic Scien...
- IRIScience – IRITEL Repository
- IRISS - Repository of the Institute of Social Sciences
- Jakov - Repository of the University of Criminal Inve...
- Machinery - Repository of the Faculty of Mechanical...
- NIV-NS Repository
- OPEN arts.bg.ac.rs – Repository of the Uiniversity of ...
- PlantaRum - Repository of the Institute for Plant Pr...
- PLATON - Open Science Platform of the University in...
- RADaR - Digital Repository of Archived Publications ...
- RAF - Repository of the University of Belgrade - Facu...



Make a website

- Wordpress (FOSS) <https://wordpress.com/create/>; download: <https://wordpress.org/download/>
- Joomla (FOSS) <https://launch.joomla.org/>, download: <https://downloads.joomla.org/>
- Mediawiki (FOSS)
- Hosting: https://en.wikipedia.org/wiki/Comparison_of_wiki_hosting_services
- Download: <https://www.mediawiki.org/wiki/Download>

Even if you don't have your own server, free hosting is available, e.g. <https://biz.ht/> (good for practice and small websites; ad-free)

Example

<http://rdm-vinca.joomla.com/> (not active anymore)

Proper hosting ensured and the website was migrated and enriched.

Serbia.RDM



UVOD ▾

PLAN ▾

ORGANIZACIJA ▾

METAPODACI ▾

OBJAVLJIVANJE ▾

VESTI



Upravljanje istraživačkim podacima (eng. *Research Data Management*) je tema sa kojom se istraživači u Srbiji sve češće sreću - pre svega u okviru projekata koje finansira Evropska komisija, a sada i konkursima [Fonda za nauku Republike Srbije](#). Upravljanje istraživačkim podacima zahteva odgovarajuće resurse, znanja i veštine od istraživača i bibliotekara.

U želji da istraživačima i bibliotekarima pomogne u usvajanju znanja neophodnih za efikasno upravljanje istraživačkim podacima, Serbia.RDM tim Univerziteta u Beogradu realizuje projekat [Boosting EOSC readiness: Creating a scalable model for capacity building in RDM](#), uz podršku [Sekretarijata Evropskog oblaka za otvorenu nauku](#) (eng. *European Open Science Cloud*, skraćeno EOSC).

Vodič koji je pred vama rezultat je projekta [Boosting EOSC readiness: Creating a scalable model for capacity building in RDM](#). Podeljen je na šest celina:

<https://rdm.open.ac.rs/>



Example



TRAP-RCUB

Search TRAP-RCUB



Uputstvo za korisnike repozitorijuma

Page Discussion

Language

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History

Edit

Edit source

More

Contents

Kome je namenjeno ovo uputstvo?

Računarski centar Univerziteta u Beogradu (RCUB) razvio je [softversko rešenje](#) za uspostavljanje mreže repozitorijuma u naučnoistraživačkim institucijama u Srbiji. Ovo uputstvo je namenjeno korisnicima repozitorijuma koje je uspostavio RCUB. Svi ti repozitorijumi imaju istu softversku platformu, sličan interfejs i iste funkcionalnosti.

- Repozitorijum ima interfejs na engleskom i srpskom jeziku (ćirilica i latinica).
- Omogućava jednostavno pretraživanje.
- Izvoz metapodataka omogućen je svim korisnicima preko DSpace platforme i APP aplikacije u BibTeX i RIS formatu.
- Preporučeno citiranje: možete preuzeti bibliografske reference u APA, Vancouver i Chicago (author-date) formatima
- Jednostavan uvid u metriku (broj citata u Web of Science, Scopusu i Dimensions, Altmetric, broj poseta i preuzimanja).

- Spisak repozitorijuma koje je uspostavio RCUB možete pronaći [ovde](#).
- Ako vas zanima i struktura sadržaja pojedinačnih repozitorijuma, kao i udeo sadržaja u otvorenom pristupu, posetite [ovu stranicu](#).

Na slici možete videti kako su se je broj repozitorijuma koje je razvio RCUB rastao.

Osnovne informacije

- Šta je repozitorijum i kome je namenjen?
- Softver
- Usklađenost sa FAIR principima
- Kontrola pristupa
- Šta je omogućeno korisnicima koji nisu registrovani?
- Šta je omogućeno registrovanim korisnicima?
- Šta sve rade administratori?

Funkcije

Pretraživanje

Registracija

Deponovanje

- Unos metapodataka

Autorska prava, licence, zaštita podataka

Koja verzija publikacije sme da se deponuje u repozitorijum?

Preteća dokumentacija (za istraživačke podatke)

Kako se postupa sa osetljivim podacima?

Korisnička podrška

Obuka

Podrška

Sugestije i komentari

Repository manual, made on a free platform and then migrated:

https://repowiki.rcub.bg.ac.rs/index.php/Uputstvo_za_korisnike_repozitorijuma

Final consideration

- Available tools are far from perfect.
- Too much wasted effort + limited interoperability
- Test new tools.
- Rethink with reusability in mind.
- Choose the medium that allows you to convey the idea.

Questions?

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Twitter: @lessormore4

