




RWTHAACHEN
UNIVERSITY

Gamifying OER Editing


Potential Bachelor Thesis

The Learning Technologies Research Group

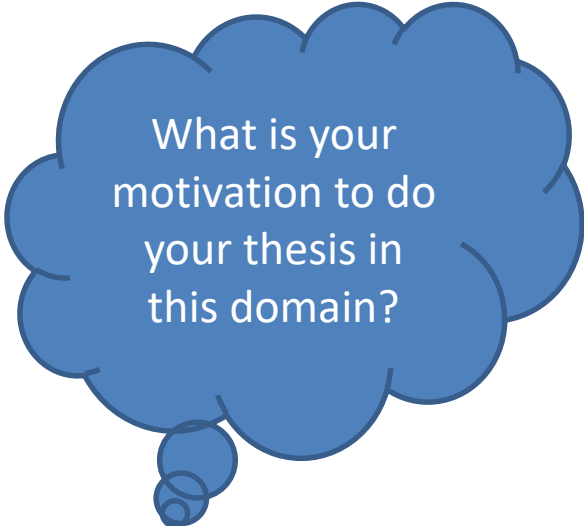
Intro..



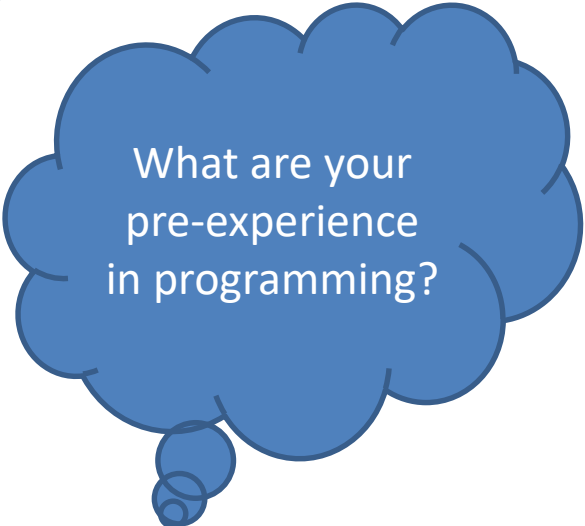
Do You have any
experience in
OER / CC
licences?



Would you
please introduce
your self?



What is your
motivation to do
your thesis in
this domain?



What are your
pre-experience
in programming?



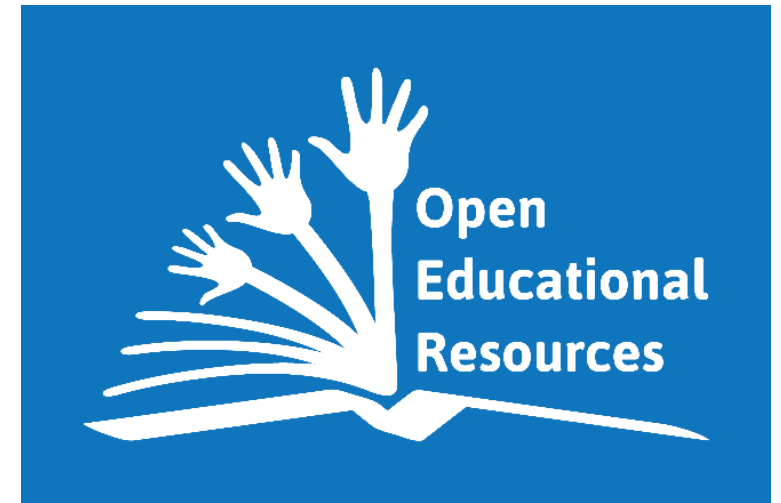
What are your
experience in
Web-based tool
programming/
Web application,
online tools?

What are Open Educational Resources?

Paris OER Declaration 2012

- ▶ “Open Educational Resources (OERs) are **any type of educational materials** that are **in the public domain or introduced with an open license**. The nature of these open materials means that **anyone can legally and freely copy, use, adapt and re-share** them. OERs range from textbooks to curricula, syllabi, lecture notes, assignments, tests, projects, audio, video and animation.”








(© UNESCO, unesco.org)



OER Global Logo, Source: [UNESCO](https://unesco.org), Author: 2012 Jonathas Mello
www.jonathasmello.com (CC BY 3.0)

- ▶ For other definitions, see: wiki.creativecommons.org

Creative Commons (CC) Licences

| Symbol | Acronym |
|--|-------------|
|  ZERO | CC 0 |
|  BY | CC BY |
|  BY SA | CC BY-SA |
|  BY NC | CC BY-NC |
|  BY ND | CC BY-ND |
|  BY NC SA | CC BY-NC-SA |
|  BY NC ND | CC BY-NC-ND |



Zero (0)



Attribution (BY)



Share Alike (SA)

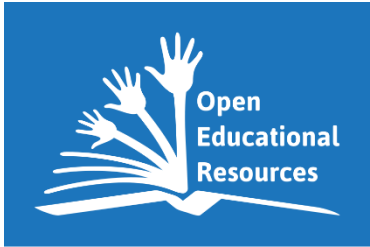


Non Commercial (NC)



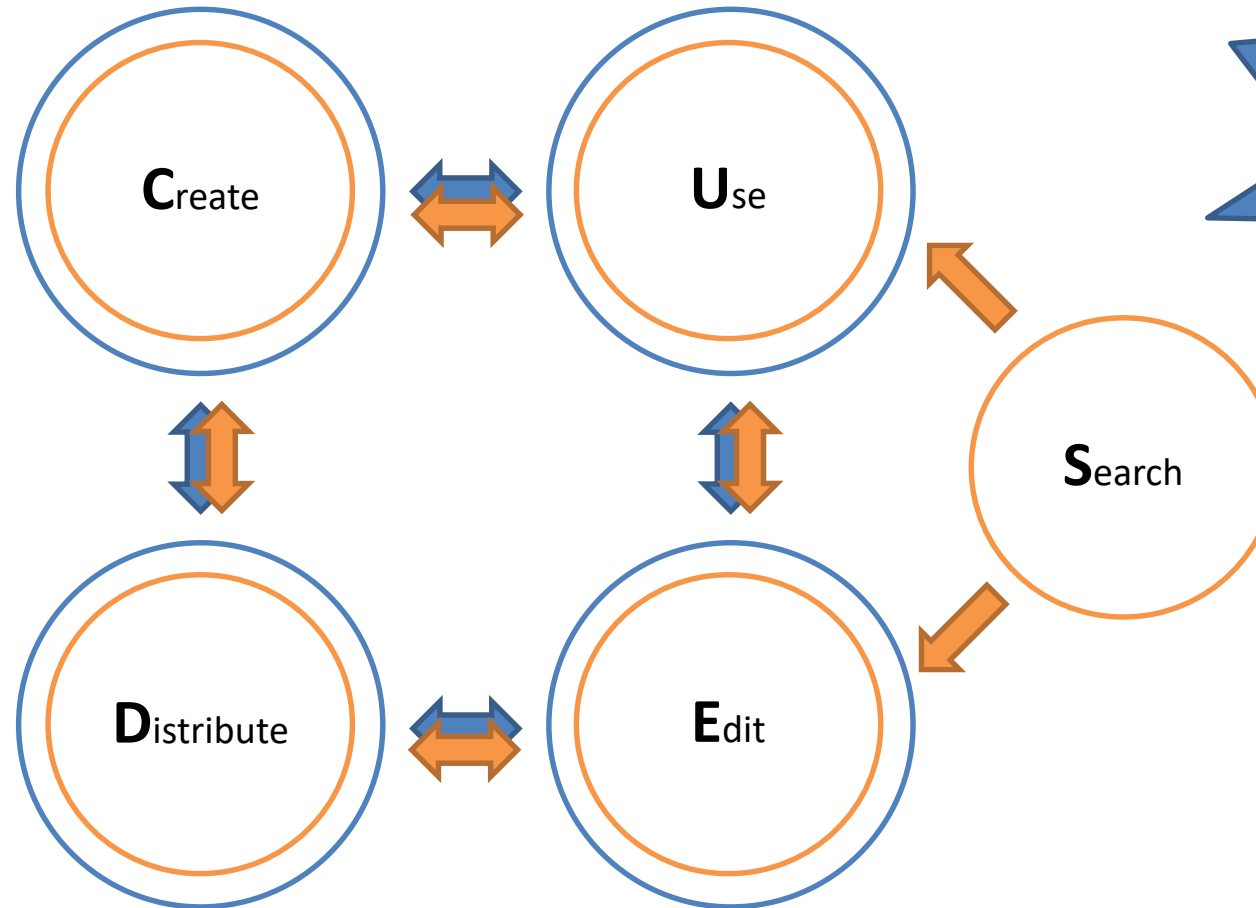
No Derivatives (ND)

OER Cycle



Source: commons.wikimedia.org,
Author: Jonathasmello ([CC BY 3.0](https://creativecommons.org/licenses/by/3.0/))

OER
Community

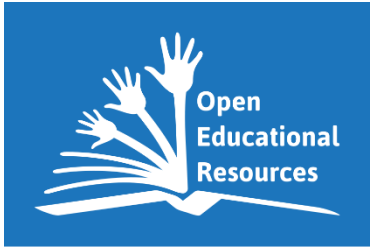


Education
Community



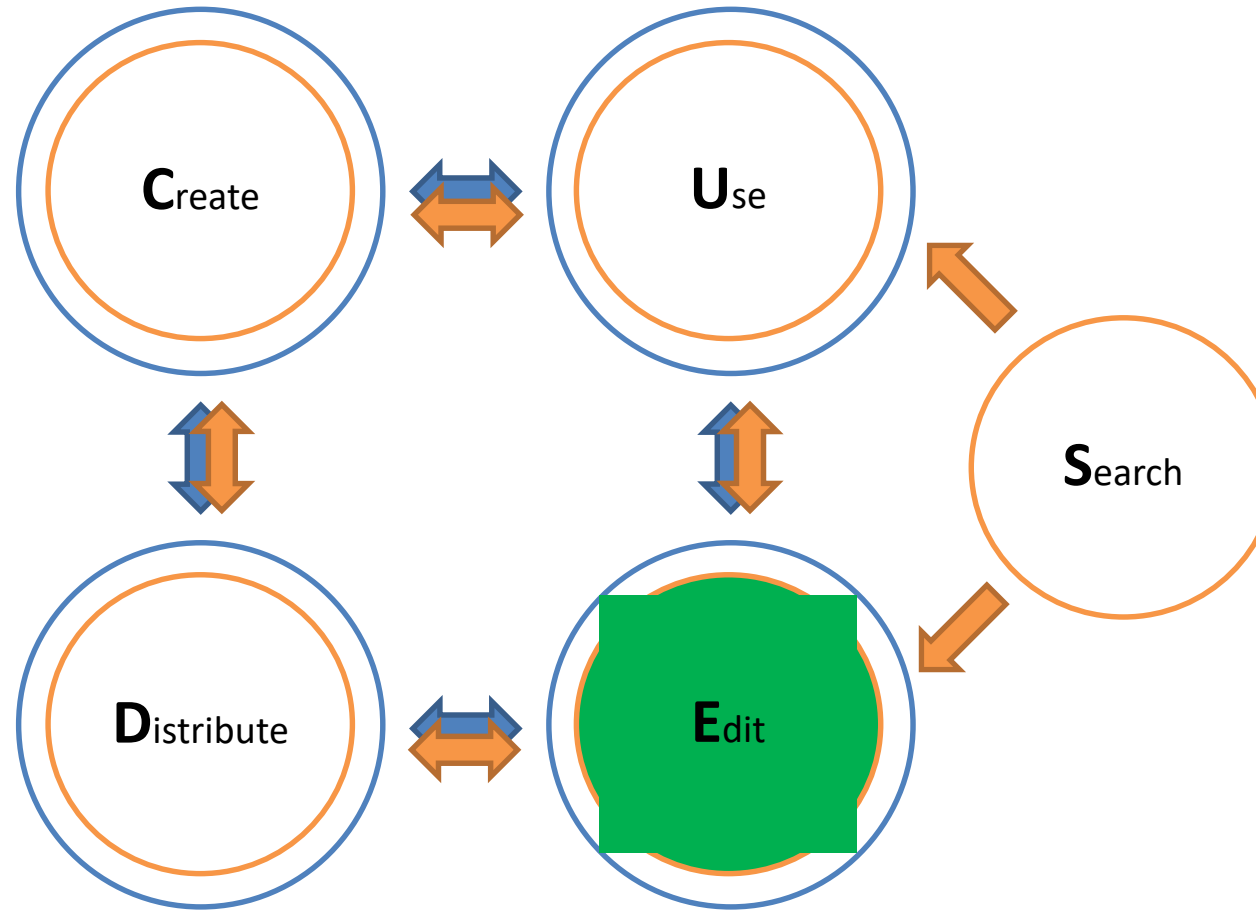
Source: publicdomainpictures.net,
Author (Unknown)
([CC0 1.0](https://creativecommons.org/licenses/by/1.0/))

OER Cycle



Source: commons.wikimedia.org,
Author: Jonathasmello ([CC BY 3.0](https://creativecommons.org/licenses/by/3.0/))

OER
Community



Education
Community

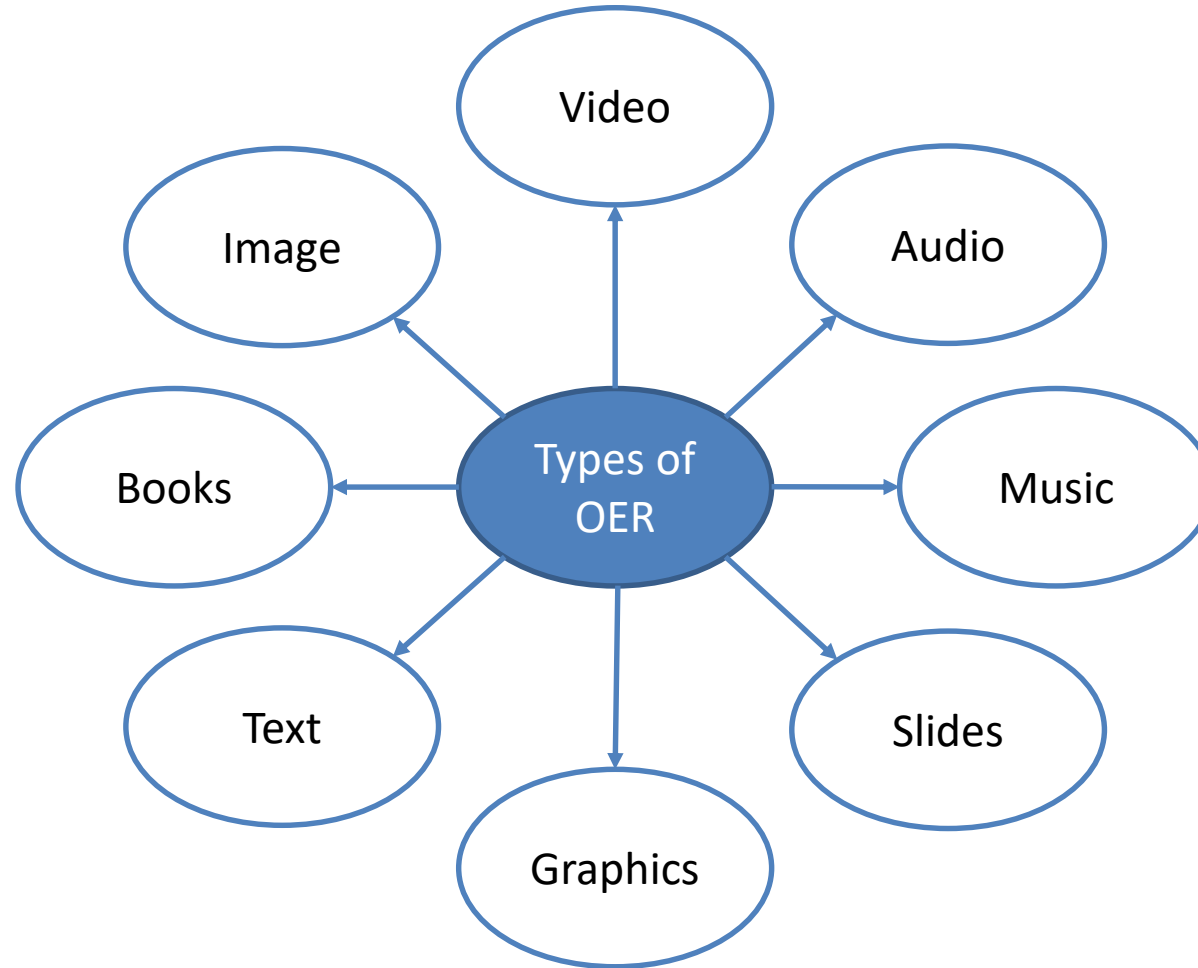


Source: publicdomainpictures.net,
Author (Unknown)
([CC0 1.0](https://creativecommons.org/licenses/by/1.0/))

Create OER

| OER type | Tools |
|-----------------------|---|
| Text | Etherpad 📄 , GoogleDoc 📄 |
| Audio | SoundCloud 📄 , MS Audioboo 📄 |
| Webpages, Blogs | WordPress 📄 , MozillaWebmaker 📄 |
| Texts, Tables, Slides | LibreOffice 📄 , MS Office 📄 |
| Video | Filmora 📄 , Clipgenerator 📄 |
| Graphics | Easel.ly 📄 , MS Visio 📄 |

Search OERs





EDIT



Edit OERs

- ▶ Case 1: OERs in a composition
 - ▶ Complete reference incl. title, source, author, linked license
 - ▶ Composition itself can be licensed under independent license (e.g., CC BY-SA 4.0)

Case 1



- ▶ Case 2: OERs in a collage
 - ▶ License conditions need to be considered
 - ▶ New work has to be under a specific license depending on remixed OERs

Case 2



Collage: Storage types

The used images have been cutted and transparency was added.

- Unterseite HDD, Source: [pixabay.com](#), Author: 422737 ([CC0 1.0](#))
- CD-Roms, [pixabay.com](#), Author: Security ([CC0 1.0](#))
- Externe Speichermedien, [pixabay.com](#), Author: Photo-Mix ([CC0 1.0](#))
- Disketten, [pixabay.com](#), Author: PublicDomainPictures ([CC0 1.0](#))

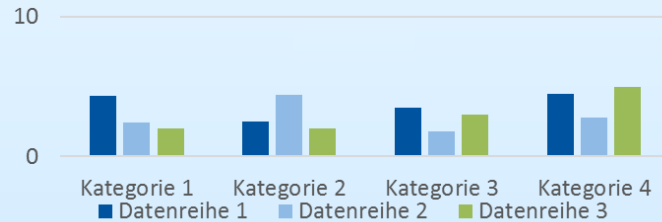
This work is by MINT-L-OER-amt and licensed under [Creative Commons Attribution-ShareAlike 4.0 International](#).



- ▶ Later, share and distribute it

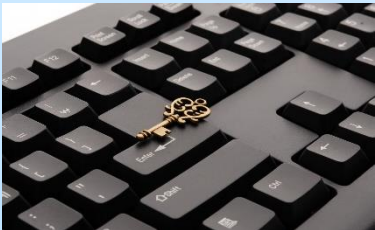
Edit OERs – Composition

Work sheet XY: Lorem Ipsum



Source: [Link](#), Author: Sarah Scholl ([CC BY 4.0](#))

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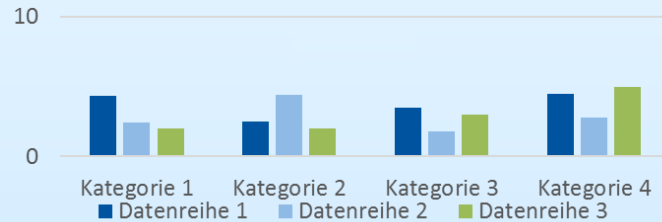
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Source: [pxhere.com](#),
Author: Nikon ([CC 0](#))

- ▶ Positioning of OERs is not restricted
- ▶ Complete reference:
 - ▶ Source (e.g., URL)
 - ▶ Author (e.g., Username)
 - ▶ License information (with link to Commons Deed)
- ▶ Rule of thumb:
 - ▶ “Close to image” or “appropriate for media type”
- ▶ Hint: Numbering and complete reference list at the end

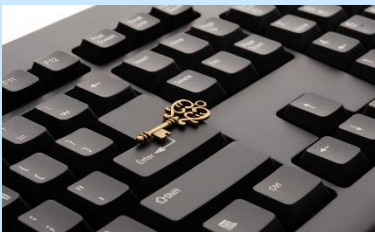
Edit OERs – Composition

Work sheet XY: Lorem Ipsum



Source: [Link](#), Author: Sarah Scholl ([CC BY 4.0](#))

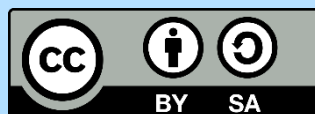
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Source: [pxhere.com](#),
Author: Nikon ([CC 0](#))

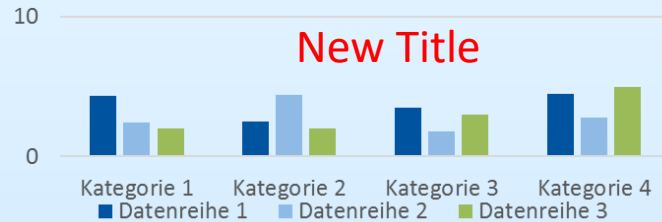
This work is created by Author and licensed under [Creative Commons Attribution-ShareAlike 4.0 International](#).



- ▶ Release of composition requires valid license
- ▶ License can be chosen freely
 - ▶ Remixed OERs are licensed independently
 - ▶ Composition has its own license
- ▶ License can be selected on:
 - ▶ creativecommons.org/choose
- ▶ License needs to be added clearly identifiable and linked to Commons Deed.

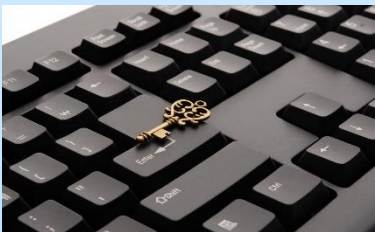
Edit OERs – Composition

Work sheet XY: Lorem Ipsum



Diagrams (added title), Source: [Link](#), Author: Sarah Scholl ([CC BY 4.0](#))

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Source: [pxhere.com](#),
Author: Nikon ([CC 0](#))

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eirmod tempor invidunt ut
labore et dolore magna aliquyam
erat, sed diam voluptua. At vero
eos et accusam et justo duo

This work is created by Author and licensed
under [Creative Commons Attribution-
ShareAlike 4.0 International](#).



- ▶ The remixed OERs may be edited individually depending on the license



CC BY ND and CC BY NC ND

- ▶ The license of the composition stays untouched



Edit OERs – Collage

- ▶ For a collage of various OERs the license information of each OER needs to be considered

⚡ CC BY-ND and CC BY-NC-ND

- ▶ Case 2.1: Licenses are all the same
 - ▶ Easy to combine
 - ▶ Less restrictions
- ▶ Case 2.2: Licenses are not all the same
 - ▶ More restrictive and more complicated to combine
 - ▶ Each licenses' conditions need to be considered



Collage: Storage types

Edit OERs – Collage

- ▶ For a collage of various OERs the license information of each OER needs to be considered



CC BY-ND and CC BY-NC-ND

- ▶ Case 2.1: Licenses are all the same
 - ▶ Easy to combine
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 - ▶ More restrictive and more complicated to combine
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Collage: Storage types

Edit OERs – Collage



Collage: Storage types

The used images have been cutted and transparency was added.

- Bottom HDD, Source: pixabay.com, Author: 422737 ([CC0 1.0](https://creativecommons.org/licenses/by-sa/4.0/))
- CD-Roms, pixabay.com, Author: Security ([CC0 1.0](https://creativecommons.org/licenses/by-sa/4.0/))
- External storage media, pixabay.com, Author: Photo-Mix ([CC0 1.0](https://creativecommons.org/licenses/by-sa/4.0/))
- Floppy-disks, pixabay.com, Author: PublicDomainPictures ([CC0 1.0](https://creativecommons.org/licenses/by-sa/4.0/))

This work is by MINT-L-OER-amt and licensed under [Creative Commons Attribution-ShareAlike 4.0 International](https://creativecommons.org/licenses/by-sa/4.0/).



- ▶ The OERs to be remixed need to be licensed with an ND-free license



CC BY ND and CC BY NC ND

- ▶ All OERs are licensed the same

- ▶ CC0 + CC0 → Choose any license
- ▶ CC BY + CC BY → CC BY or more restrictive license

Edit OERs – Collage

- ▶ For a collage of various OERs the license information of each OER needs to be considered

⚡ CC BY-ND and CC BY-NC-ND

- ▶ Case 2.1: Licenses are all the same
 - ▶ Easy to combine
 - ▶ Less restrictions
- ▶ Case 2.2: Licenses are not all the same
 - ▶ More restrictive and more complicated to combine
 - ▶ Each licenses' conditions need to be considered

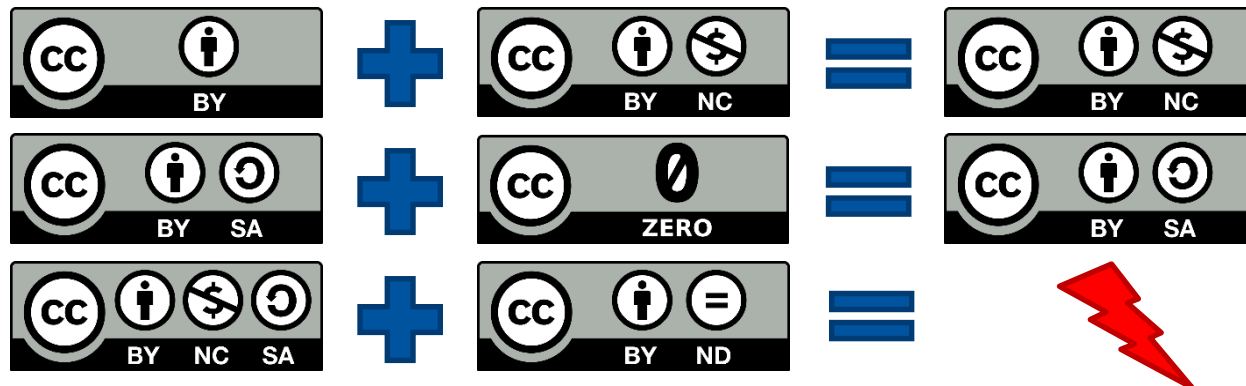


Collage: Storage types

Edit OERs – Collage

- ▶ In case of different licenses the compatibility needs to be evaluated
→ Some licenses exclude each other
- ▶ An OER collage licensed under CC BY-SA or CC BY-NC-SA need to be released with the same license due to the SA element

- ▶ Examples:



Task

























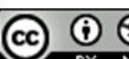





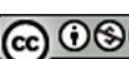




Think about three licences that could be combined together to produce a composition and three licences that could be combined to produce a collage.



Source: pxhere.com,
Author: unknown ([CC0 1.0](https://creativecommons.org/licenses/by/4.0/))



Compatibility of Licenses

| | | open | | | | restrictive | | |
|-------------|--|--|---|---|--|---|--|--|
| open | |  ZERO |  BY |  BY SA |  BY NC |  BY ND |  BY NC SA |  BY NC ND |
| |  ZERO |  ZERO |  BY |  BY SA |  BY NC | X |  BY NC SA | X |
| |  BY |  BY |  BY |  BY SA |  BY NC | X |  BY NC SA | X |
| |  BY SA |  BY SA |  BY SA |  BY SA | X | X | X | X |
| |  BY NC |  BY NC |  BY NC | X |  BY NC | X |  BY NC SA | X |
| |  BY ND | X | X | X | X | X | X | X |
| |  BY NC SA |  BY NC SA |  BY NC SA | X |  BY NC SA | X |  BY NC SA | X |
| | | | | | | | | |
| |  BY NC ND | X | X | X | X | X | X | X |
| restrictive | | | | | | | | |

Combining CC Licences

Creative Commons Mixer


Input


List of all used cc licenses in your composed work.


☐   ZERO

☐   BY


☐    BY SA

☐    BY NC

☐    BY ND

☐     BY NC SA

☐      BY NC ND



Will it blend?

Output

List of all allowed cc licenses for the composed work.

Select on the left all the CC licenses you use combined in your work.

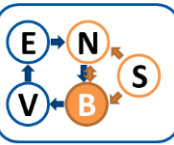
Then hit the "Will it Blend?"-Button and see all the possible licenses you can publish your remix.

This is no legal advice. Its a prototype of a 1day hackathon. We invite everyone to develop this prototype together with us into a service the community can rely on for the future: info@edu-sharing.net

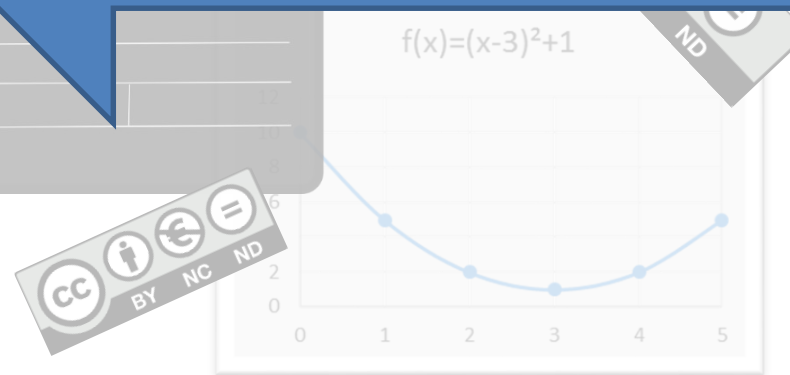
Source: ccmixer.edu-sharing, Screenshot taken on 27-Mar-2020



Let's do it together!



Now, it is your turn to edit different OER! Try to combine different resources to produce a collage a composition.



Normal Workshops ...Before Corona!!

- ▶ The participants work in groups
 - ▶ Try to combine different resources
 - ▶ Produce a composition
 - ▶ Produce a Collage
 - ▶ Think about the correct/ potential license for publishing the new OER
- ▶ Exchange/ discuss results



Next Steps...

Bachelor Thesis Domain:

- ▶ Update our concept
- ▶ Implementing this concept/ idea as an online tool/game!
- ▶ The Participants can combine resources online
 - ▶ Produce a composition
 - ▶ Produce a collage
- ▶ Wizard/ Interactive GUI

QUESTIONS?

Contact..

- ▶ Lubna Ali
- ▶ RWTH Aachen
- ▶ Learning Technologies Group- Informatik 9
- ▶ E-Mail: ali@informatik.rwth-aachen.de



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