



Curation & Creation of eContent

Dr. Natasha Maria Gomes

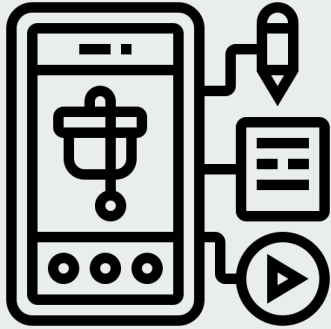


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Session Plan

- eContent : Definition & Forms
- Open Educational Resources & Open Licences
- Curation of eContent - Need & Process
- Benefits & Limitations of eContent Curation
- Need for Creation of eContent
- FOSS for Developing eContent

Online course



Source: Flaticon.com

Contains various
eContent

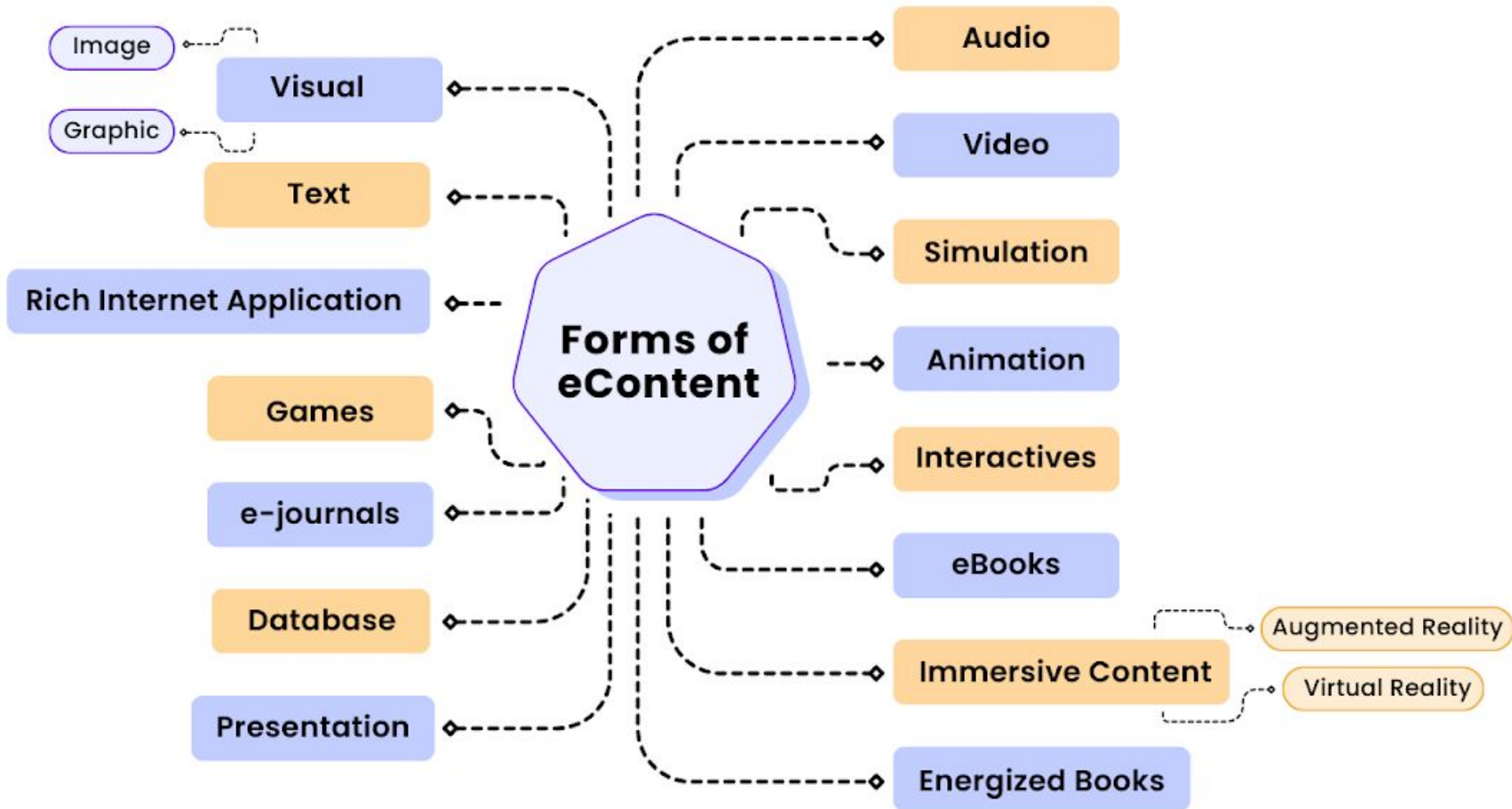
- Video
- Text
- Interactives
- eBooks
- etc.

Definition of eContent



“eContent is any form of learning material available digitally which a learner access or interacts with so as to achieve related learning outcomes.”

- Guidelines for Developing eContent for School and Teacher Education (Diksha 3.0)





Can I take this?

Photo, Cottonbro studio, Pixels, CC BY



Photo of white bottle, Cottonbro studio, Pixels, CC BY

Taking it without
permission is stealing!

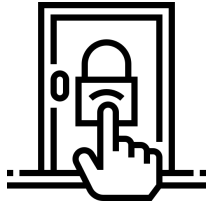
Copyright



- Legal right of owner
- Incentive for creativity
- Intellectual Property Rights - literary and artistic works



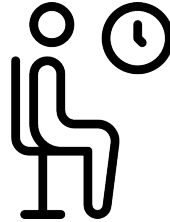
© Copyright hinders education



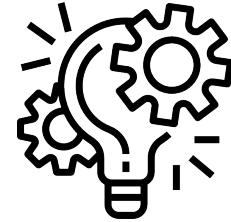
Prevents
access



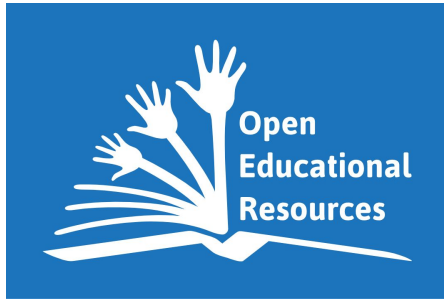
Expensive



Long waiting
time



Limits
innovation



“Open Educational Resources (OER) are **learning, teaching and research materials** in **any format and medium** that reside in the **public domain** or are under copyright that have been released under an **open licence**, that permit **no-cost access, re-use, re-purpose, adaptation and redistribution by others.**”

- Recommendations on OER, UNESCO, 2019

O

Open

- No-cost access,
- Re-use,
- Adapt,
- Share

E

Educational

- Teaching,
- Learning,
- Research materials

R

Resources

- Various types
- Any medium

Benefits for OER



Access &
Equity



Cost Saving



Customisation
& Localisation



Supports
innovation


SDG4: Education for All

Images from Flaticon.com


Can I take this?



Person Pouring Water on White Cup, RDNE Stock project, Pixels, CC BY



Can a teacher **use photos found online** to create a presentation for her online course?



Can a teacher use **photos found online** to create a presentation for her online course?

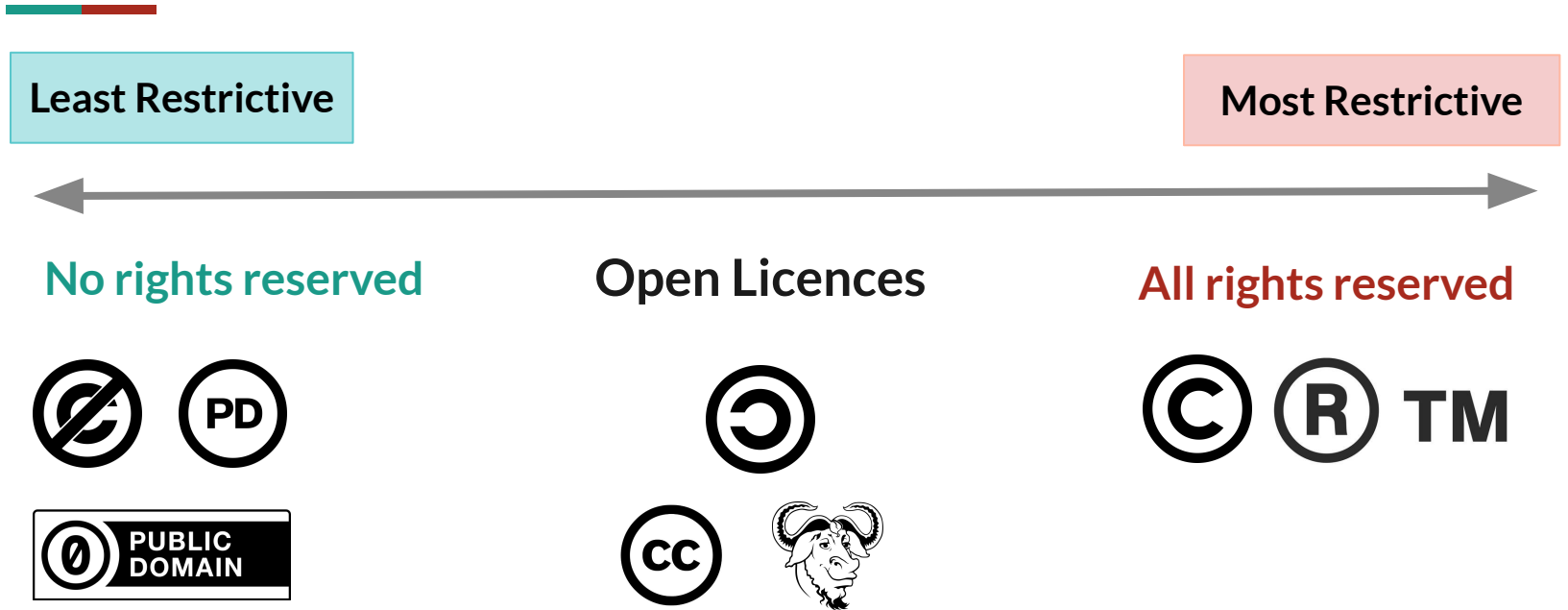
Cannot use eContent

- Presence of ©
- No symbol of ©
- Even if source is credited

Can use eContent

- OER
- Open Licence
- Public Domain
- Copyright has expired

Licence Spectrum



Creative Commons Licences

4 Concepts = 6 Licences

Creative Commons Licences

4 Concepts = 6 Licences



BY

Attribution



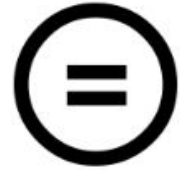
SA

Share-Alike



NC

Non-Commercial



ND

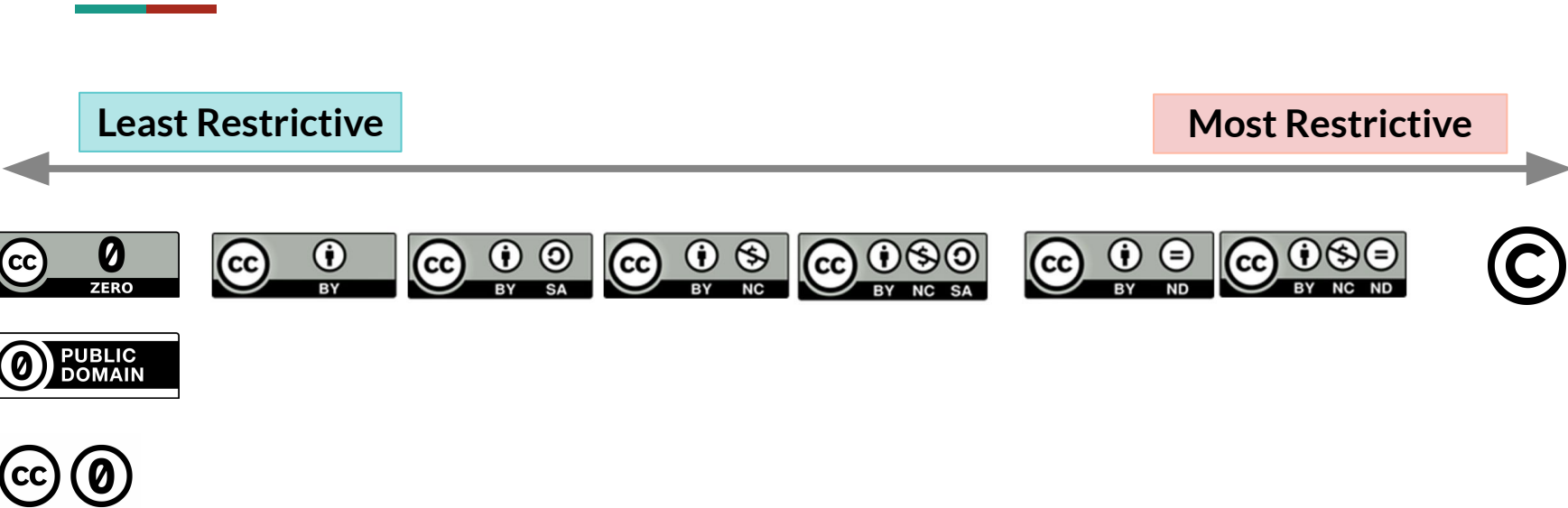
No Derivatives

Creative Commons Licences

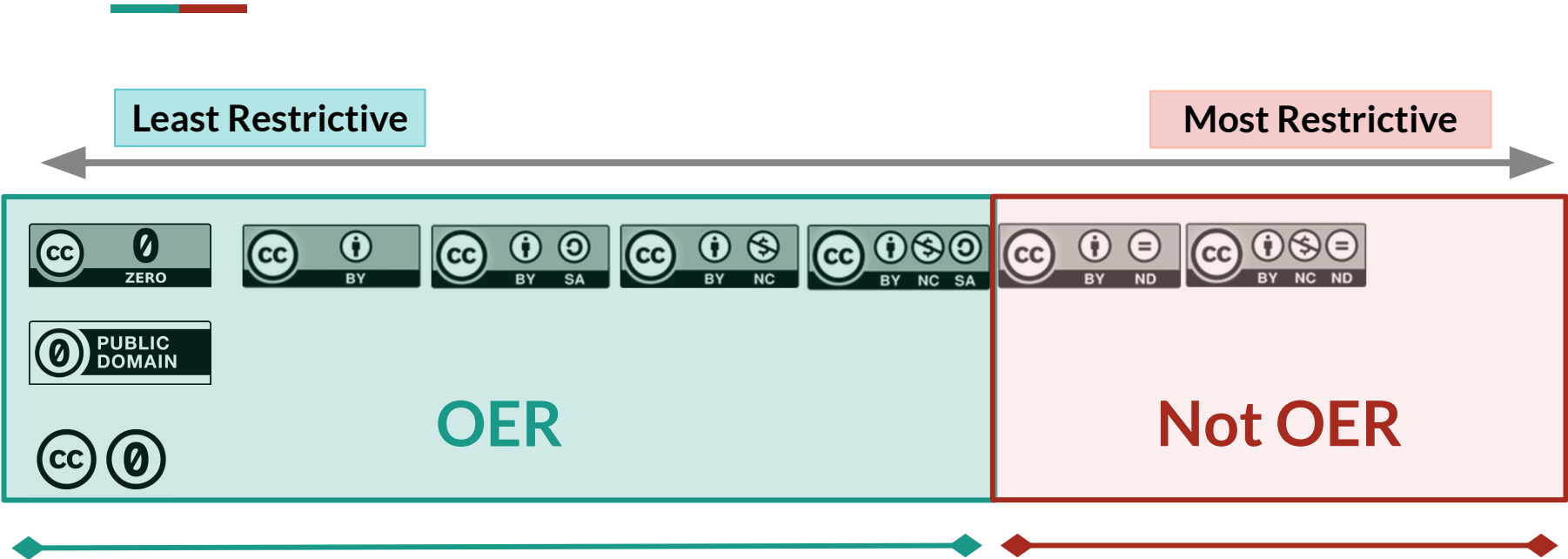


Attribute	Attribute	Attribute	Attribute	Attribute	Attribute
Adapt	Adapt	Adapt	Share	Adapt	Share
Use commercially	Use commercially	Share	Use commercially	Share under the same Licence	Cannot use commercially
Share	Share under the same Licence	Cannot use commercially	Cannot make adaptations	Cannot use commercially	Cannot make adaptations

CC Licences Spectrum



CC Licences Spectrum





Locate eContent

- Keywords
- Usage rights filter on search engines
- Specialised Search Engines
- OER Repositories and Initiatives

Google ¹

water cycle

AI Mode ²

All Images Videos Shopping Short videos Forums More ▾

³ Tools ▾

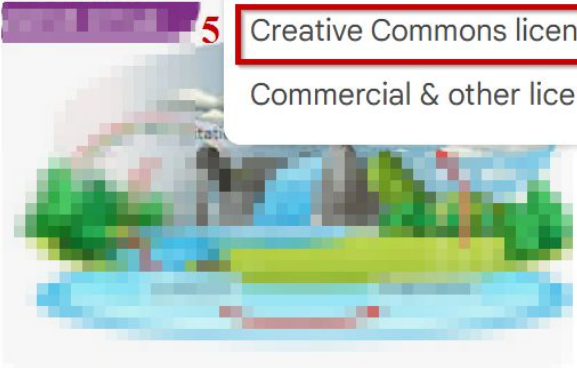
6th grade

Drawing

Easy

5th grade

Color ⁴



- Not filtered by license ✓
- Creative Commons licenses**
- Commercial & other licenses

- Size ▸
- Color ▸
- Usage rights** ▸
- Type ▸
- Any time ▸
- Advanced Search
- About 1,32,00,00,000 results (0.28s)



Advanced Search

Find pages with...

all these words:

this exact word or phrase:

any of these words:

none of these words:

numbers ranging from:

to

Then narrow your results by...

language:

any language



region:

any region



last update:

anytime



site or domain:

terms appearing:

anywhere in the page



file type:

any format



usage rights:

not filtered by licence



Advanced Search

Then narrow your results by...

language:

any language

region:

any region

last update:

anytime

site or domain:

not filtered by licence

free to use or share

free to use or share, even commercially

free to use share or modify

free to use, share or modify, even commercially

terms appearing:

file type:

usage rights:

not filtered by licence

Advanced Search

Search eContent

Search Engines

Open verse, Archive.org, Wikimedia Commons, ...

OER Initiatives

Diksha, OER Africa, OER Commons, OASIS, Open Learn, Open Textbooks, ...

Audio

MusOpen, Free Music Archive, TechnoAXE, Silver Sound Studion, ...

Images

Flickr, Unsplash, Pixabay, ...

Video

YouTube, Vimeo, Videvo, Pixabay ...

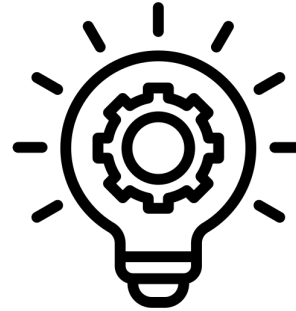
Text

Project Gutenberg, Wikipedia, ...

Online Course



Curation



Creation

Source: Flaticon.com

Concept of Curation



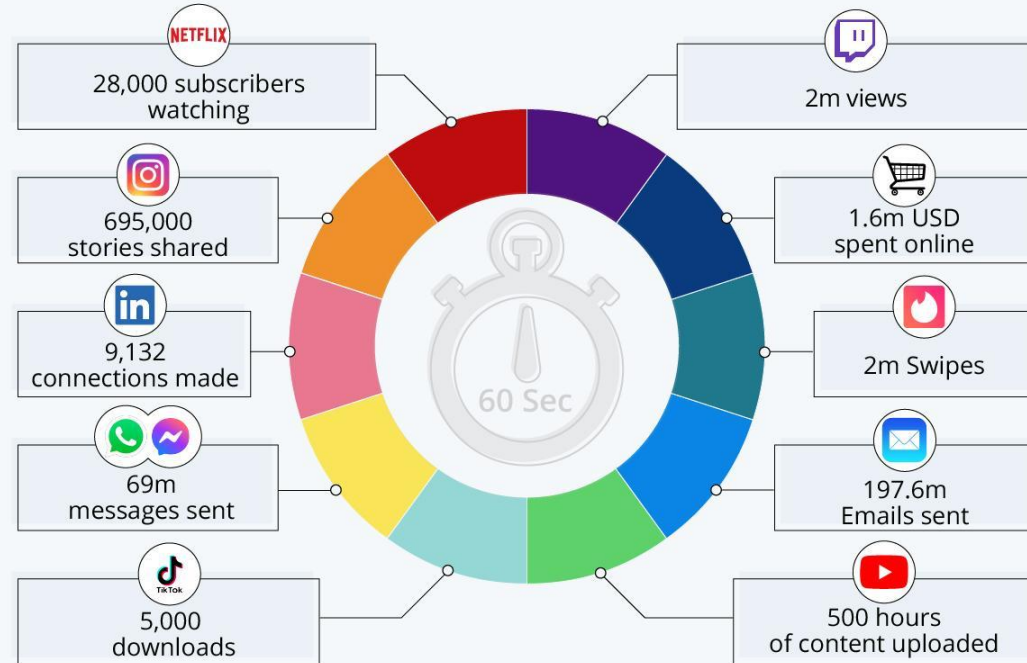
Source: Flaticon.com

- Used in various domains
- Not mere compilation
- Art and Science

Why consider curation?

A Minute on the Internet in 2021

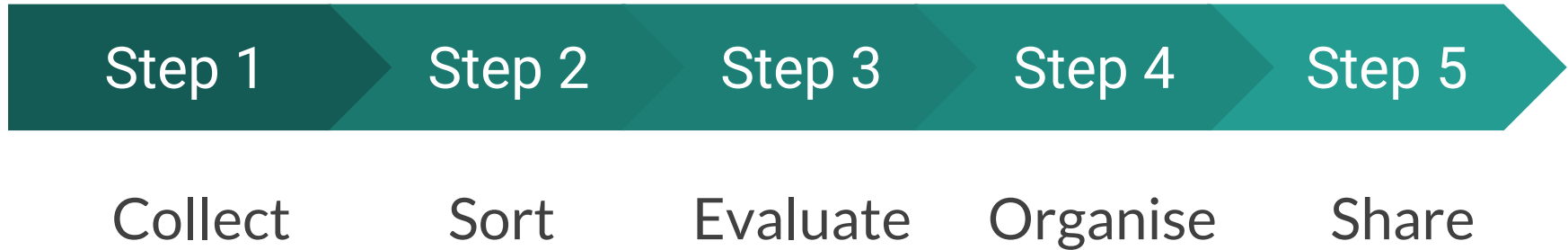
Estimated amount of data created on the internet in one minute



Source: Lori Lewis via AllAccess



Process of Curation



Deschaine and Sharma, 2015; Bhargava cited in Opening Educational Practices in Scotland Project, 2016 and Institute for the Study of Knowledge Management in Education, 2019



Step 1: Collect eContent

- Organised collection
- Detailed information, digital format, accessible location (title, usage rights, links, creator, etc)



Step 2: Sort eContent

- Compare
 - Topic-wise
 - Form
 - Licences/usage rights
 - Size/duration
- Filter for Cohesion



Step 3: Evaluate eContent

Guidelines for Development of eContent for School and
Teacher Education. (DIKSHA 3.0)

1. Target audience,
2. Content,
3. Pedagogical considerations,
4. Presentation,
5. Technical features,
6. Administrative considerations.



Step 4: Organise eContent

- Learning path
- How, where and in which combinations eContent is used.
- Decide flow



Step 5: Share

- Learning portal
- Learning Management System
- Features of portal/platform
- Attribution

Attribute a work

- **Title** of eContent
- **Author** - Creator/owner
- **Source / Link** - the URL of the content
- **License**

Water Cycle by **Kevregourez** is licenced under CC by SA 4.0.

Germination by **Kat1992** adapted by **Begoon** is licenced under CC BY SA 3.0

Help us protect the commons. Make a tax deductible gift to fund our work.

[DONATE TODAY!](#)

Choose a License for Your Work

Follow the steps to select the appropriate license for your work.

This site does not store any information.

1

Do you know which license you need?

Yes

No

Waiting for required fields...

2

Which license do you need?

1 Do you know which license you need?

- Yes
 No

2 Which license do you need?

License

3 Attribution details (optional)

This helps others attribute your work to you, and fills in machine-readable code.

Title of work

Creator of work

Link to work

Link to Creator Profile

Year of creation

Waiting for required fields...

Confused? Need Help?

- ▶ [What are Creative Commons licenses?](#)
- ▶ [How to apply a Creative Commons license](#)
- ▶ [What should I consider?](#)
- ▶ [What do the icons mean?](#)

1

Do you know which license you need?

- Yes
- No

2

Require attribution for your work?

- Yes
- No

3

Allow others to use your work commercially?

- Yes
- No

4

Allow others to remix, adapt, or build upon your work?

- Yes
- No

5

Require adaptations of your work to be licensed under the same CC license?

- Yes
- No

Waiting for required fields...

Confused? Need Help?

▶ [What are Creative Commons licenses?](#)

▶ [How to apply a Creative Commons license](#)

▶ [What should I consider?](#)

▶ [What do the icons mean?](#)

need?

- Yes
 No

2

Which license do you need?

License

3

Attribution details (optional)

This helps others attribute your work to you, and fills in machine-readable code.

Title of work

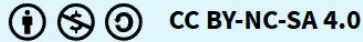
Creator of work

Link to work

Link to Creator Profile

Year of creation

Recommended Choice



Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International

This license requires that reusers give credit to the creator. It allows reusers to distribute, remix, adapt, and build upon the material in any medium or format, for noncommercial purposes only. If others modify or adapt the material, they must license the modified material under identical terms.

BY: Credit must be given to you, the creator.

NC: Only noncommercial use of your work is permitted. *Noncommercial means not primarily intended for or directed towards commercial advantage or monetary compensation.*

SA: Adaptations must be shared under the same terms.

[See the License Deed](#)

Mark Your Work

Choose the kind of work to get appropriate license code or public domain marking.


Mark Your Work

Choose the kind of work to get appropriate license code or public domain marking.

▼ Website

If you are licensing or marking one work, paste the code next to it. If you are licensing or marking the whole page or blog, you can paste the code at the bottom of the page.

▼ Rich Text

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full tool name

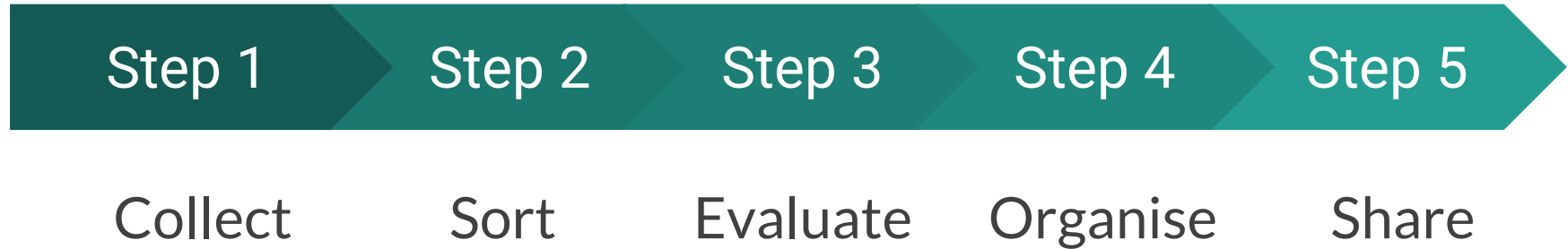
generic mark

Copy

▶ HTML

▶ Print Work or Media

Process of Curation



Deschaine and Sharma, 2015; Bhargava cited in Opening Educational Practices in Scotland Project, 2016 and Institute for the Study of Knowledge Management in Education, 2019

Curation



Benefits

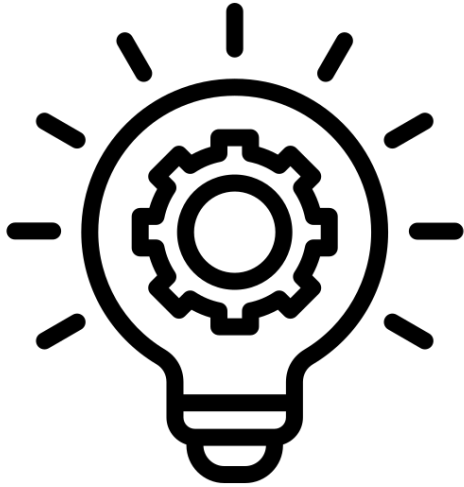
- Reduces costs
- Saves time
- Optimise time

Limitations

- Non-availability
- Reliability
- Insufficient contextualisation

Need for Creation!

Need for Creation of eContent



Source: Flaticon.com

- No existing eContent
- Enhance visual and auditory quality
- Add further nuance
- Add contextualisation
- Add interactivity
- Build on eContent

Type of Softwares

```
graph TD; A[Type of Softwares] --> B[Proprietary Software]; A --> C[Free Open Source Software (FOSS)]; B --> D[Premium]; B --> E[Freemium]; D --> D1[- Financial costs]; D --> D2[- Renewals]; E --> E1[- Free: basic features]; E --> E2[- For a fee: +features]; C --> C1[- Freedom to use, copy, share]; C --> C2[- Source code: edited, reused, redistributed];
```

Proprietary Software

Premium

- Financial costs
- Renewals

Freemium

- **Free:** basic features
- **For a fee:** +features

Free Open Source Software (FOSS)

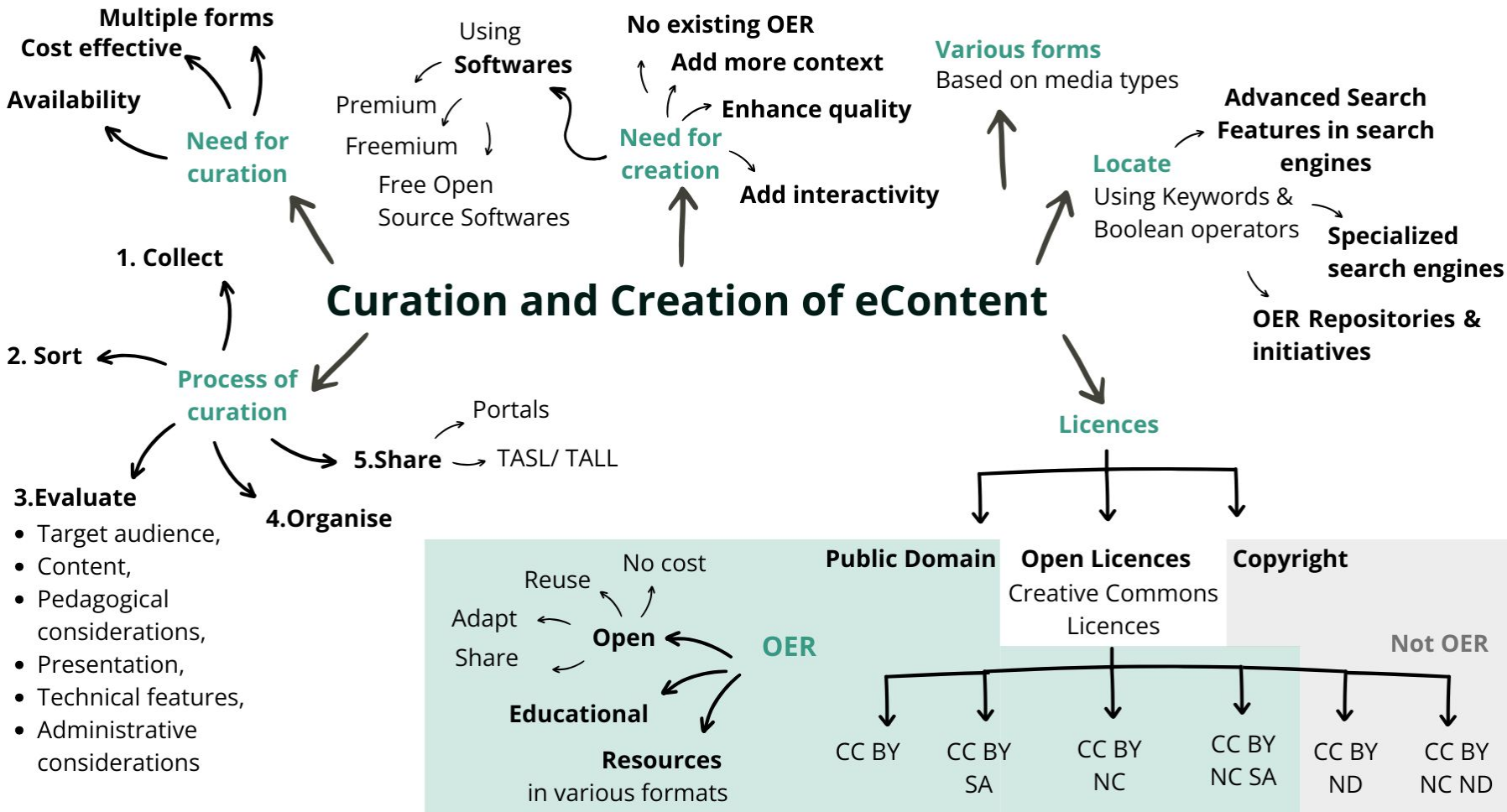
- **Freedom** to use, copy, share
- **Source code:** edited, reused, redistributed

Takeaway



- Locate appropriate eContent for reuse
- Assess the quality of eContent while curation
- Structure eContent in a meaningful manner
- Give credit where credit is due
- Choose an appropriate License for your work

Curation and Creation of eContent



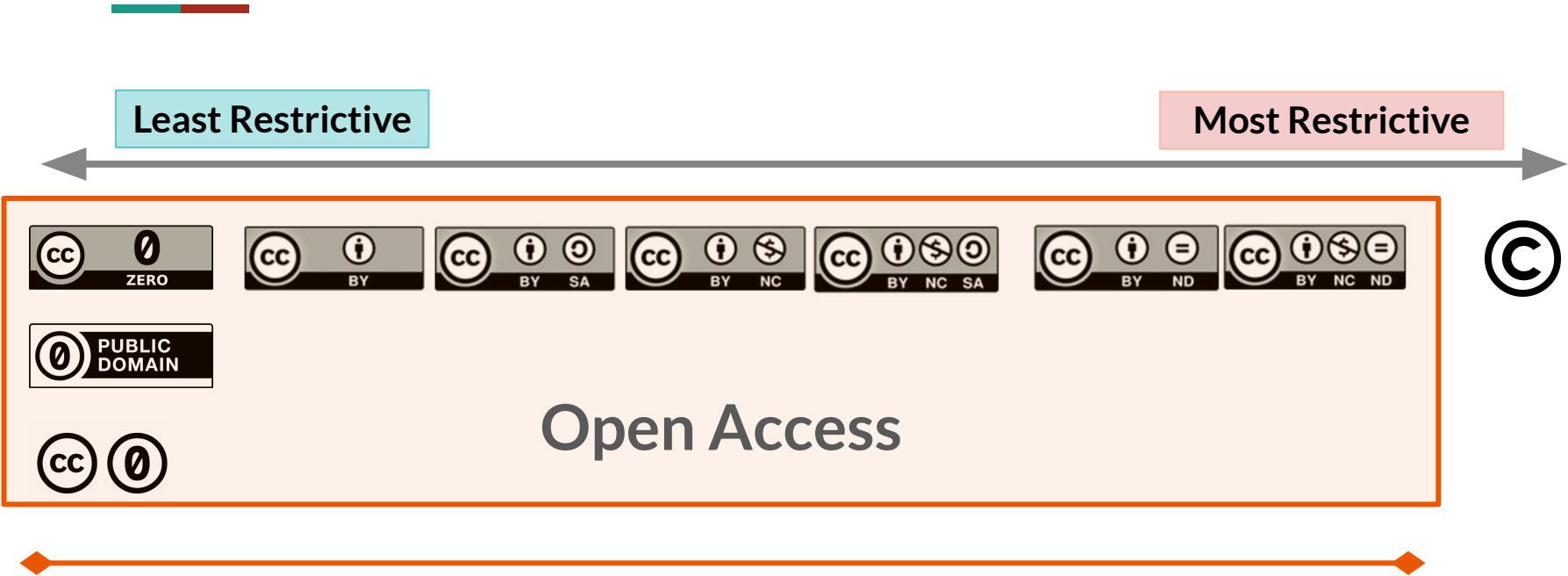
Curate before you create !

Dr. Natasha Maria Gomes

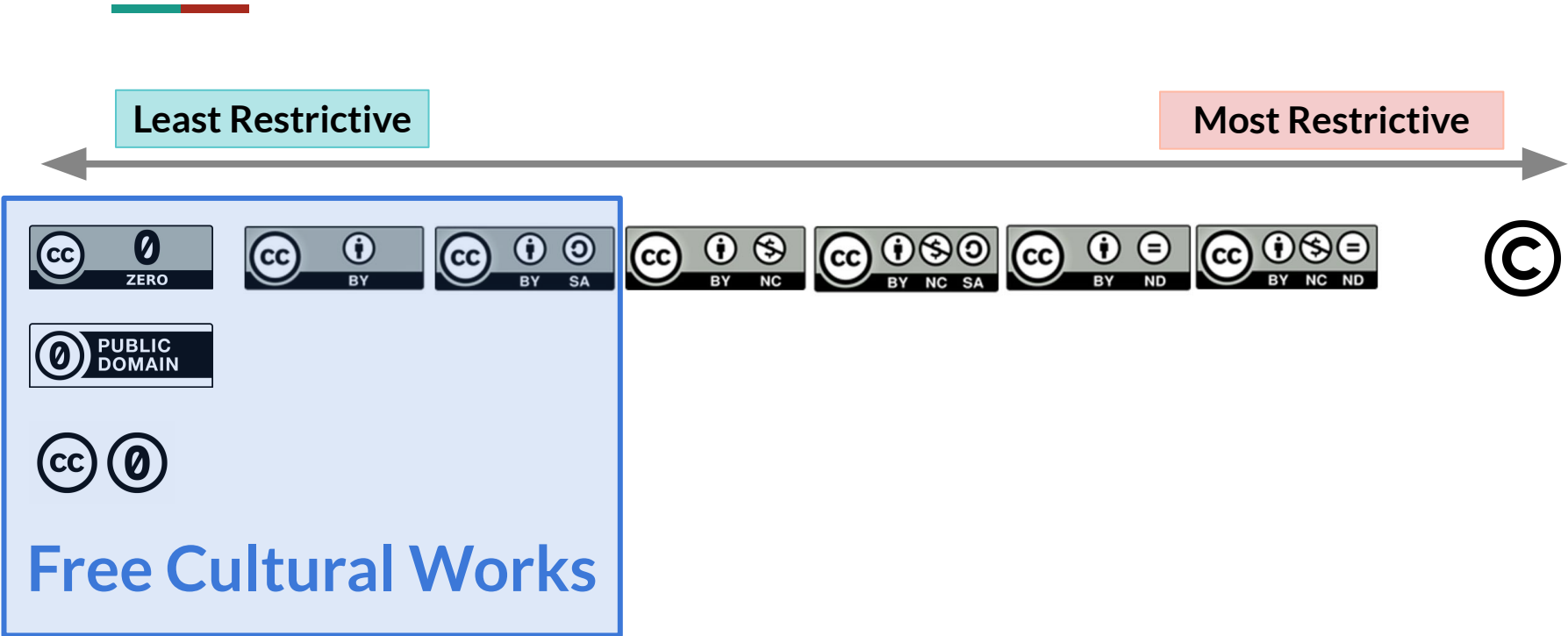


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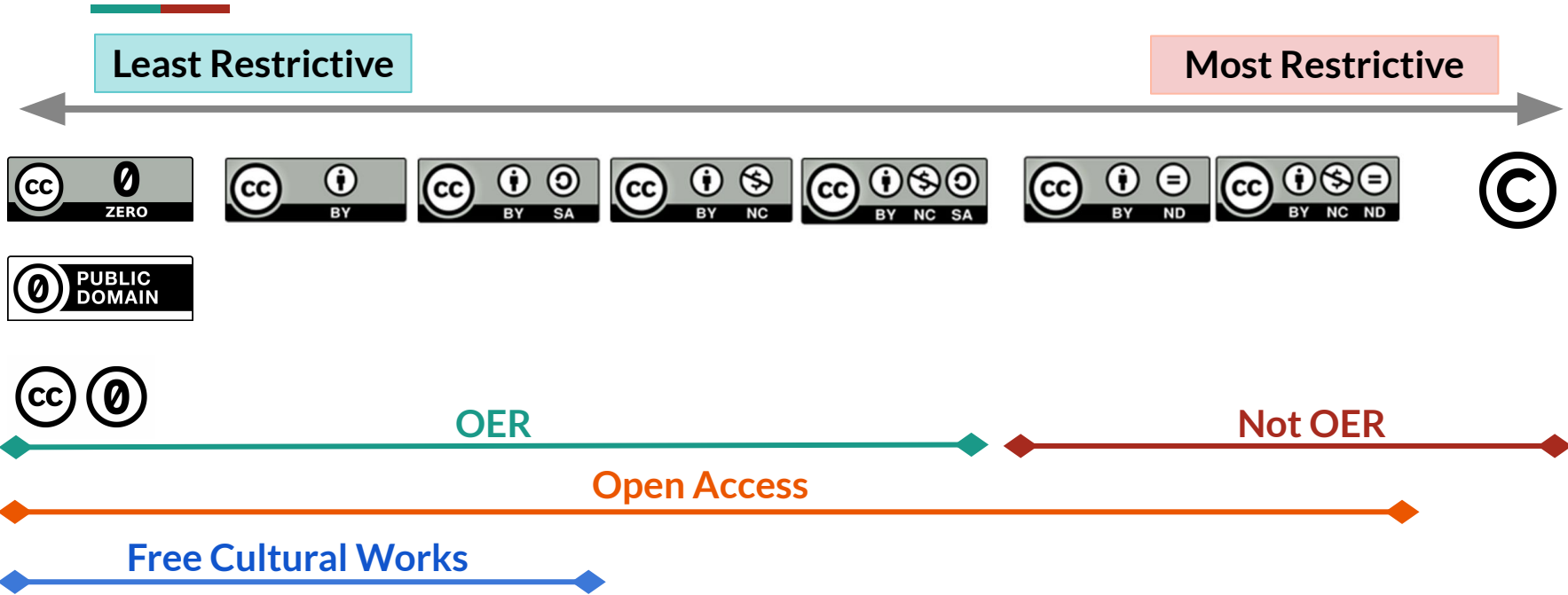
CC Licences Spectrum



CC Licences Spectrum



















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License Compatibility

	 PUBLIC DOMAIN	 PUBLIC DOMAIN	 BY	 BY SA	 BY NC	 BY ND	 BY NC SA	 BY NC ND
 PUBLIC DOMAIN	✓	✓	✓	✓	✓	✗	✓	✗
 PUBLIC DOMAIN	✓	✓	✓	✓	✓	✗	✓	✗
 BY	✓	✓	✓	✓	✓	✗	✓	✗
 BY SA	✓	✓	✓	✓	✗	✗	✗	✗
 BY NC	✓	✓	✓	✗	✓	✗	✓	✗
 BY ND	✗	✗	✗	✗	✗	✗	✗	✗
 BY NC SA	✓	✓	✓	✗	✓	✗	✓	✗
 BY NC ND	✗	✗	✗	✗	✗	✗	✗	✗