OER on the web - a call to action *

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University:Future Festival 2023, April 27

Reality Check

- Open Educational Resources (OER), characterized by 5 Rs of openness (4 Rs in [Hil+10])

  - Permissions to *retain, reuse, revise, remix, redistribute*

- Suppose that after this conference you aim to **remix** a presentation

  - Do you **find** it? Where?

Figure 1: "Transparency" by Wichai Wi under CC BY 3.0 US; cropped from the Noun Project

    * In some organization's silo?
    * In a popular place under surveillance capitalism?
  - What **source format** do you obtain?
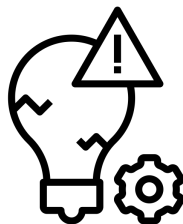

Figure 2: "mistake" by Kamin Ginkaew under CC BY 3.0 US; cropped from the Noun Project

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       * PDF, Powerpoint, and video with various issues

       * Contents bound to organization-specific layout

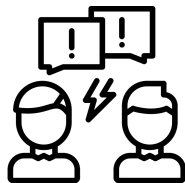   – What to do with **revised** contents?

Figure 3: "Conflict" by lastspark under CC BY 3.0 US; cropped from the Noun Project

       * Do you **notify** the author? Do you **collaborate**? How?

       * How and where do you **redistribute**?

For OER, we expect the 5 Rs of openness, which go back to research by Hilton et. al (2010), namely the freedoms to retain, reuse, revise, remix, and to redistribute educational material.

\<Read\>

Subsequently, I will present my answers to these questions.

Enlightenment

- Let us embrace **freedom**, **openness**, and **decentralization** in the context of OER as role model for our digital society!

  1. We find OER with ordinary search engines on the web.

Figure 4: "A future where enlightenment empowers students" from GitLab. Generated with DALL-E. No copyright, no restrictions.

2. We teach and learn with OER without being subjected to surveillance capitalism.

3. We educate and empower to collaborate on OER with free/libre and open source software.

4. We maintain OER in a global society with the capabilities offered by industrial-strength decentralized version control systems such as Git.

5. We benefit from learning analytics under truly informed consent.

Let us start with Enlightenment, which I use in the Kantian sense: "emergence from self-incurred immaturity"

<Read/Go over points>

I'll make this more precise with answers to the introductory questions.

OER on the Web

- Find and use OER on the web
    - Rely on search engines and browsers
        * Platform-independent use, also mobile and offline
    - OER with chat, annotation, social presence

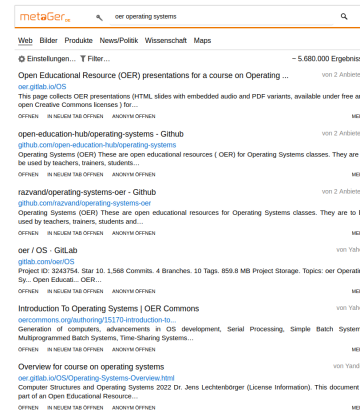- Publish outside LMS silos and outside surveillance capitalism!

Figure 5: "Search result for OER with metaGer" under CC0 1.0; from GitLab

A search for "OER operating systems" with your favorite search engine, not necessarily the one shown here, quite likely directs you to OER of mine among the top results related to operating systems. Thus, the above vision does not need to remain a dream.

Legalese, Licensing, Collaboration

- Teach and learn with OER outside surveillance capitalism

Figure 6: "A brain breaking free from surveillance on the internet" from GitLab. Generated with DALL-E. No copyright, no restrictions.

- Publish without invasive tracking
    - Benefig from learning analytics under truly informed consent
        * What do instructors need to know why? What learners?
        * Let's build that!

- Empower to collaborate (on OER) with free/libre and open source software
    - **Strategically** (money!) build infrastructure (software, hardware, cloud, AI)
        * Maintain OER as global society
        * With capabilities of decentralized version control, e.g., Git
            · Teach version control along with digital writing
            · With ensuing discussions of communication, collaboration, organization, ownership, trust

If we want to collaborate and to escape surveillance capitalism we need to discuss legalese and licensing.

We should not use invasive tracking, but we might still benefit from techniques like learning analytics, based on learners' and instructors' needs.

5

Importantly, we need strategic efforts to build our infrastructures and tools, where we invest our money according to our values, in ways that empower. Our money should not sustain unhealthy dependencies and immaturity.

I already mentioned decentralized version control, which I want to emphasize here. Maybe we want to teach version control along with digital writing.

Conclusions

Reality Check Revisited

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Figure 7: "Transparency" by Wichai Wi under CC BY 3.0 US; cropped from the Noun Project

        * In some organization's silo?
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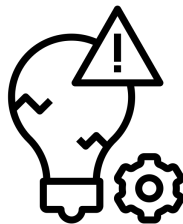   - What **source format** do you obtain?

Figure 8: "mistake" by Kamin Ginkaew under CC BY 3.0 US; cropped from the Noun Project

        * PDF, Powerpoint, and video with various issues
        * Contents bound to organization-specific layout
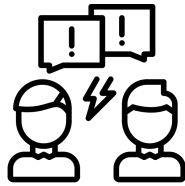   - What to do with **revised** contents?

Figure 9: "Conflict" by lastspark under CC BY 3.0 US; cropped from the Noun Project

> * Do you **notify** the author? Do you **collaborate**? How?
> * How and where do you **redistribute**?

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Figure 10: "Transparency" by Wichai Wi under CC BY 3.0 US; cropped from the Noun Project

> * On the decentralized **web**, with source material in Git
> * Under **our control**
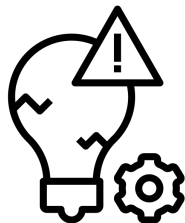
    - What **source format** do you obtain?

Figure 11: "mistake" by Kamin Ginkaew under CC BY 3.0 US; cropped from the Noun Project

> * PDF, Powerpoint, and video with various issues
> * Contents bound to organization-specific layout
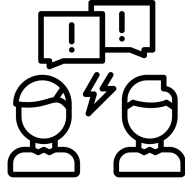
– What to do with **revised** contents?

Figure 12: "Conflict" by lastspark under CC BY 3.0 US; cropped from the Noun Project

* Do you **notify** the author? Do you **collaborate**? How?
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Figure 13: "Transparency" by Wichai Wi under CC BY 3.0 US; cropped from the Noun Project

* On the decentralized **web**, with source material in Git
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Figure 14: "infrastructure" by Nithinan Tatah under CC BY 3.0 US; cropped from the Noun Project

* Exchange **lightweight markup**, editable with any software, rendered into HTML

* For **platform-independent** consumption, including offline and mobile
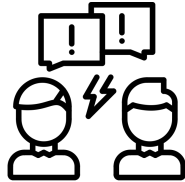 - What to do with **revised** contents?

Figure 15: "Conflict" by lastspark under CC BY 3.0 US; cropped from the Noun Project

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Figure 16: "Transparency" by Wichai Wi under CC BY 3.0 US; cropped from the Noun Project

* On the decentralized **web**, with source material in Git
* Under **our control**
  - What **source format** do you obtain?

Figure 17: "infrastructure" by Nithinan Tatah under CC BY 3.0 US; cropped from the Noun Project

9

* Exchange **lightweight markup**, editable with any software, rendered into HTML
* For **platform-independent** consumption, including offline and mobile

– What to do with **revised** contents?

Figure 18: "Society" by Nithinan Tatah under CC BY 3.0 US; cropped from the Noun Project

* We **collaborate** with version control

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    – Where do you **find** it?

Figure 19: "Transparency" by Wichai Wi under CC BY 3.0 US; cropped from the Noun Project

* On the decentralized **web**, with source material in Git
* Under **our control**

– What **source format** do you obtain?

Figure 20: "infrastructure" by Nithinan Tatah under CC BY 3.0 US; cropped from the Noun Project

> > > * Exchange **lightweight markup**, editable with any software, rendered into HTML
> > > * For **platform-independent** consumption, including offline and mobile
> > – What to do with **revised** contents?

Figure 21: "Society" by Nithinan Tatah under CC BY 3.0 US; cropped from the Noun Project

> > > * We **collaborate** with version control
> > See [Lec19a; Lec19b] for some details on my approach.

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Bibliography

[Hil+10] John L. III Hilton et al. "The four 'R's of openness and ALMS analysis: frameworks for open educational resources". In: *Open Learning* 25.1 (2010), pp. 37–44.

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[Lec19b] Jens Lechtenbörger. "Simplifying license attribution for OER with emacs-reveal". In: *17. Fachtagung Bildungstechnologien (DELFI 2019)*. Ed. by Niels Pinkwart and Johannes Konert. Bonn: Gesellschaft für Informatik e.V., 2019, pp. 205–216. DOI: 10.18420/delfi2019_280. URL: https://dl.gi.de/handle/20.500.12116/24399.

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