

# HELLO!

## I am Erik Christiansen

Assistant Professor, Librarian [@MRULibrary](#)

Twitter: [@eriksation](#)

Email: [echristiansen@mtroyal.ca](mailto:echristiansen@mtroyal.ca)



# EVERYTHING IS SHAREABLE



**Why Open Educational Resources are Critical to  
Lifelong Learning and the Sharing Economy**

# TODAY WILL BE AN ADVENTURE!



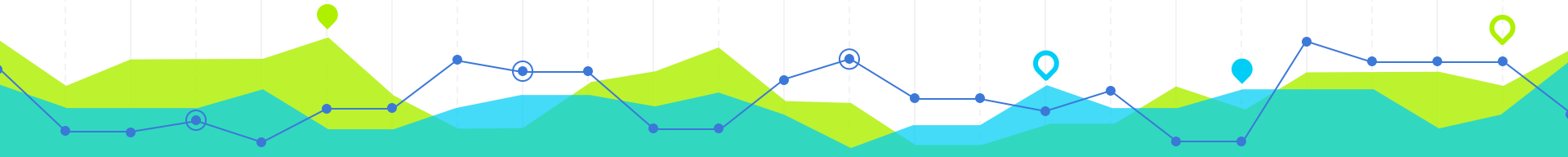
CC0 Image

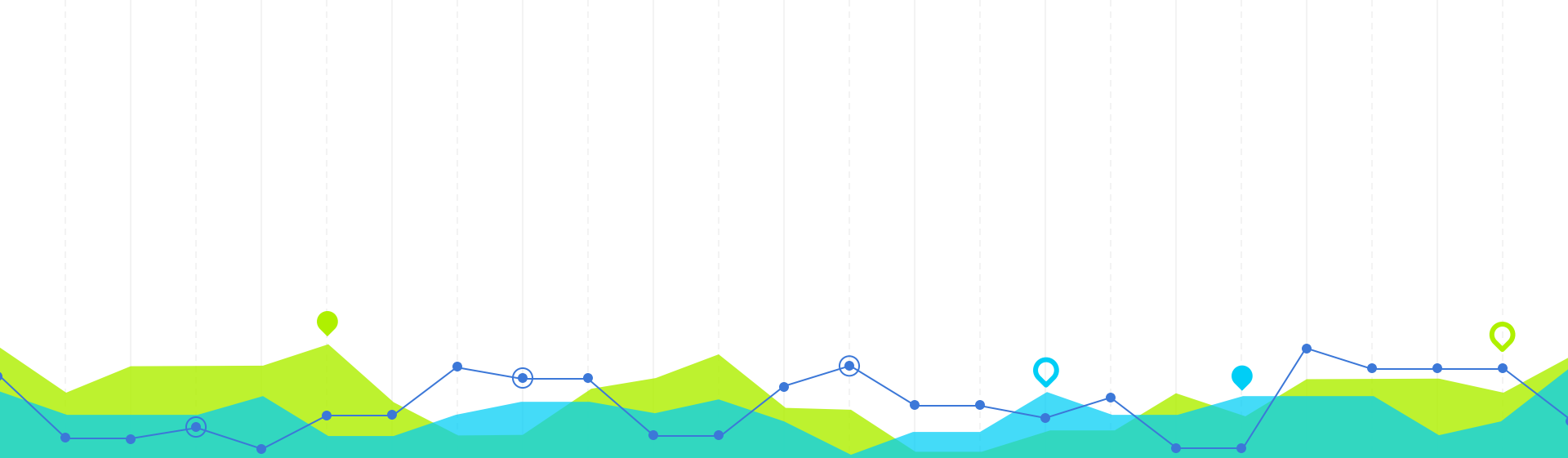
# LEARNING OBJECTIVES

1. Understand the concept of open educational resources (OER)
2. Understand the role of OER in the open education movement
3. Know where to find OERs
4. Understand the role of librarians



**We're going to build an open  
educational resource together!**





# Introduction and Brainstorming Activity

Let's put our heads together

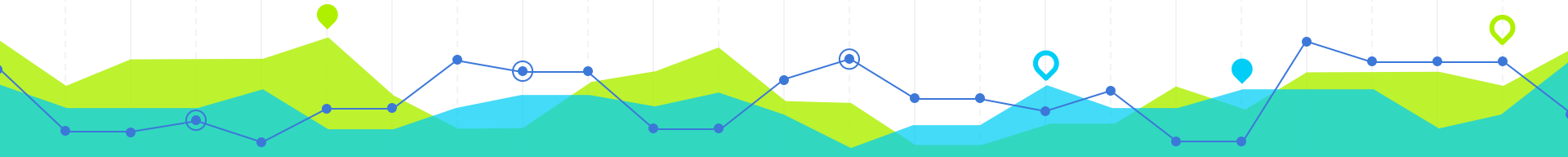
1

# Please introduce yourselves!

- Your name and occupation/industry
- Give an example of an open (online or print) resource that you've used



# A little bit about my background...





# I like to tinker...

**First family computer**

**Atari 1040 ST**

**8MHz Processor**

**1MB RAM**

**320x200 Resolution**



# Became the building block for...

- Hardware hacking
- Web development
- Web usability
- The Internet of Things and sensors

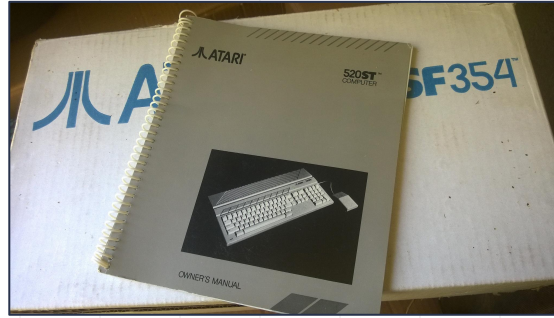


Homemade TV media centre: Raspberry Pi model B+ running OpenElec

# Learned through open resources



**Floppy disks**



**Manuals**

Image by [Jaakko Hakulinen](#),  
[Flickr](#)



**Web  
Communities**



# What are Open Educational Resources?

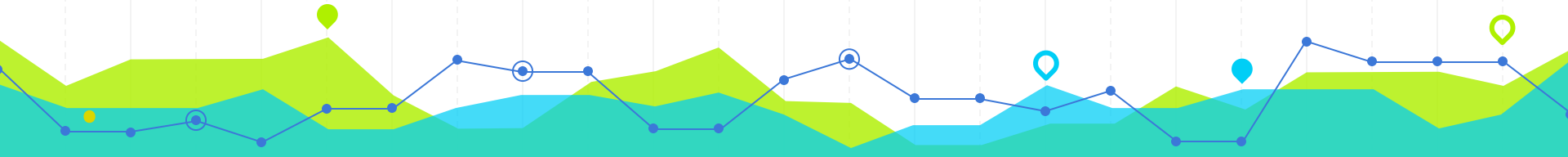
Why should librarians (or anyone) care?

2

“

*the open provision of educational resources, enabled by information and communications technologies, for consultation, use and adaption by a community of users for non-commercial purposes*

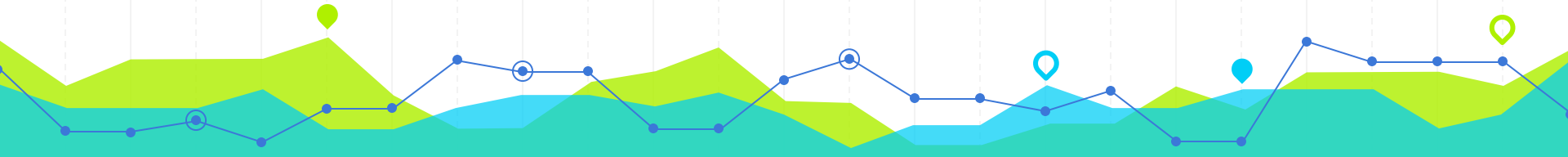
~ “Open Educational Resources” coined at a [2002 UNESCO conference](#)

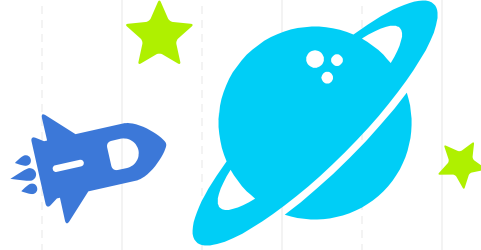


“

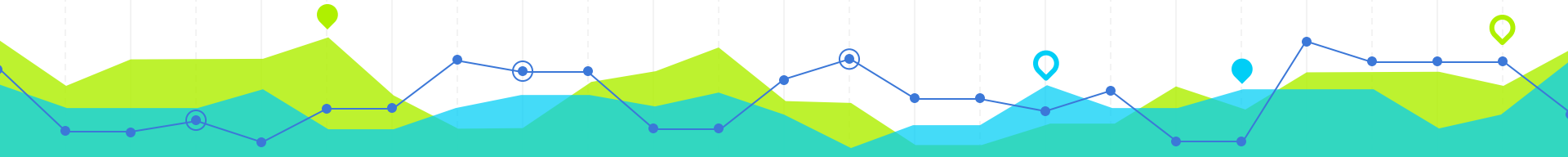
*digitised materials offered freely and openly for educators, students and self-learners to use and reuse for teaching, learning and research”*

~ OECD in [Giving Knowledge for Free](#) (2007)

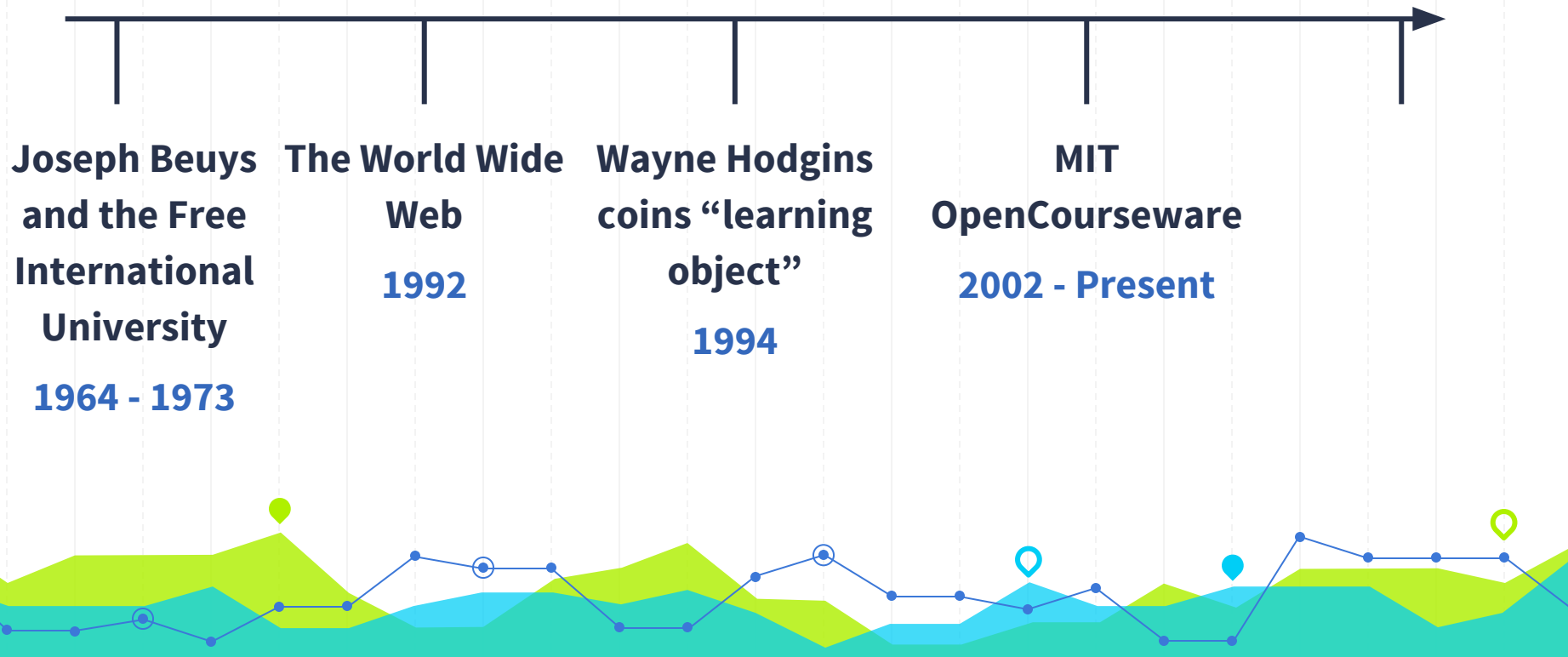




# OPEN EDUCATION



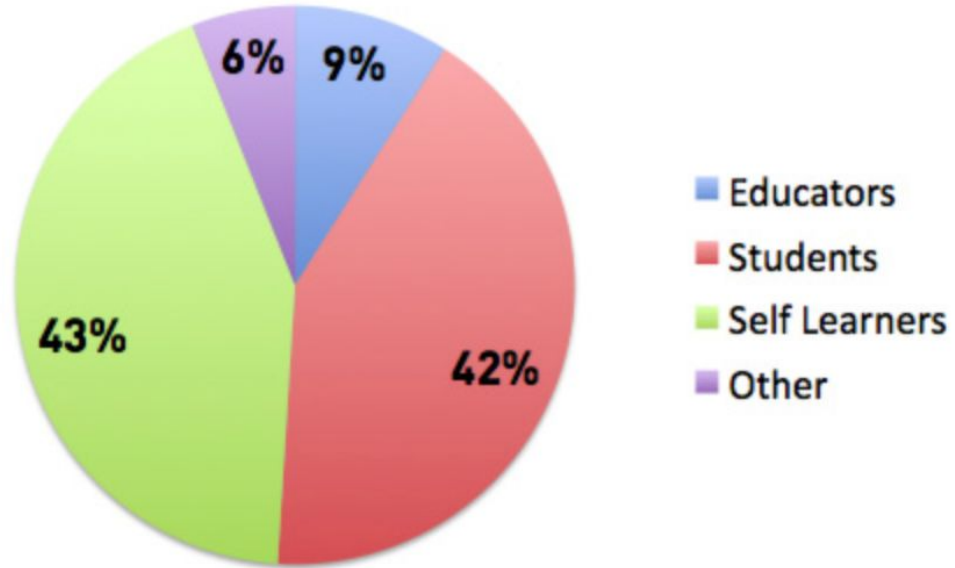
# A Brief History





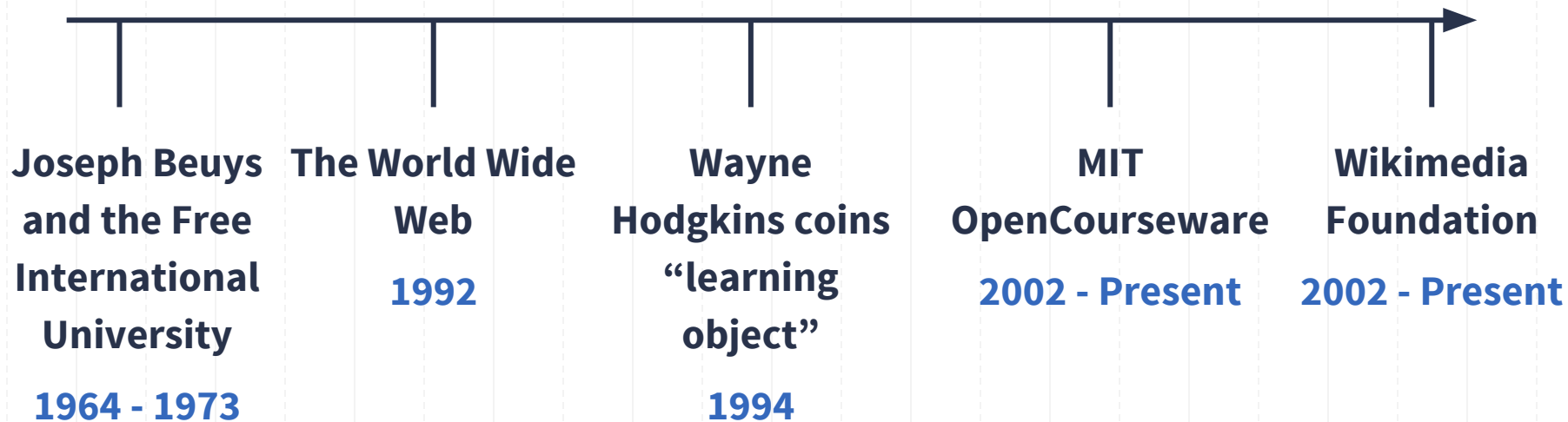
# MIT OpenCourseWare

- **Receives 2 million visits a month**
- **2364 courses published**



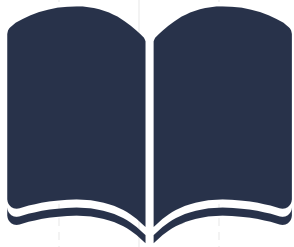
MIT OpenCourseWare. (2016, October). Retrieved from <https://ocw.mit.edu/about/site-statistics/>

# A Brief History



# OER In Higher Education

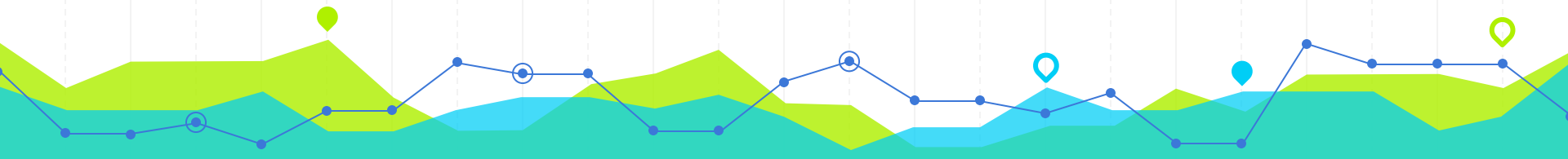
**Textbooks**



**Multimedia**



**Full Courses**



# OER can be much broader

- Open source software / tools
- Presentations / slide decks
- Code repositories (GitHub)
- Open data
- Manuals and technical guides



# 5 Rs

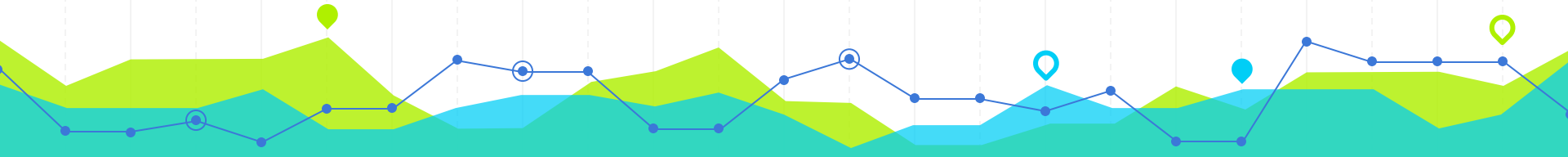
**Retain**

**Reuse**

**Revise**

**Remix**

**Redistribute**



# Interested Parties

- ➔ **Librarians**
- ➔ **Students / learners**
- ➔ **Administration / leadership**
- ➔ **Government / policy makers**

Source: What are open educational resources? <http://lumenlearning.com/about-oer/>





About ▾ Call for Participation ▾ Projects & Resources Events

March 27-31, 2017

Open Education Week is a celebration of the global Open Education Movement. Its goal is to raise awareness about the movement and its impact on teaching and learning worldwide. Join us!

Call for participation open until February 28th, 2017

Submit Your Entry

Screenshot source: <https://www.openeducationweek.org>

STUDENTS | FACULTY

# Find

a Textbook

[Find](#)

Search our collection of open textbooks. The curated collection aligns with the [top 40 subject areas in BC](#). Many of these textbooks have been [reviewed and vetted by BC post-secondary faculty](#).

FACULTY

# Adopt

a Textbook

[Adopt](#)

Let us know if you have [adopted an open textbook](#). Or, if you are looking for resources on how to adopt a textbook, we have some resources to help.

FACULTY

# Adapt

a Textbook

[Adapt](#)

Take advantage of the open textbook [Creative Commons license](#) and customize an open textbook to fit your specific needs. See [Support for Adapting an Open Textbook](#) for a list of resources to help you modify an existing open textbook.



CAMPUS  
Manitoba



# OPENNESS AND THE ACADEMY

Title and Diagram Adapted from  
McNally, M. (2014). *Broadening Access  
to Knowledge*





# Examples and Repositories

Sharing is caring

3

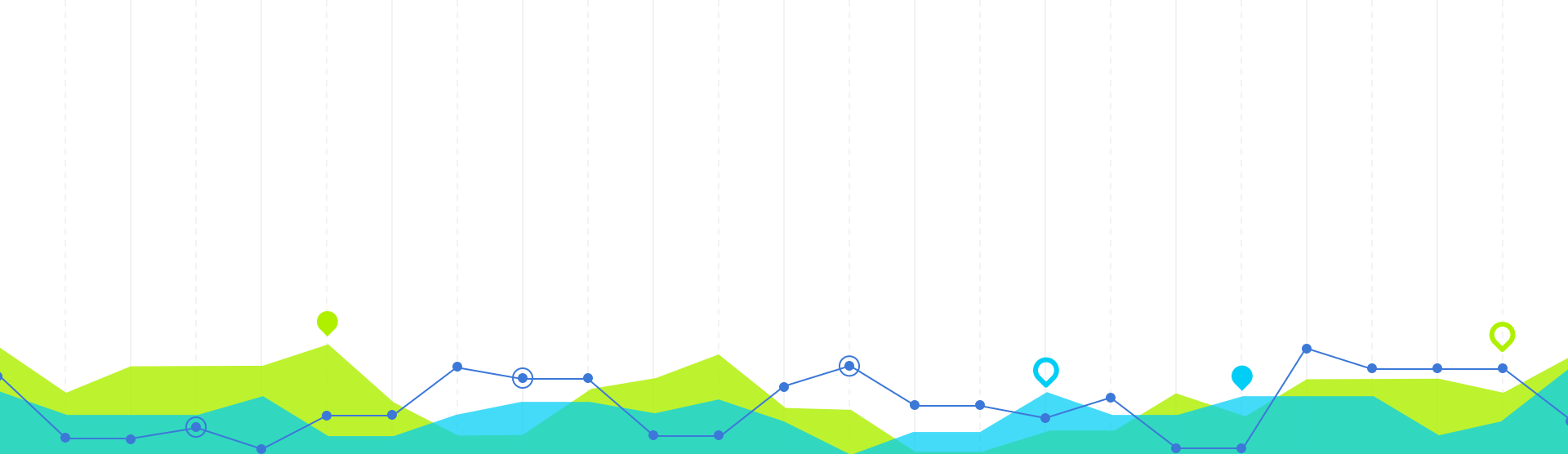
# FINDING OER

MIT OpenCourseWare

BC Campus / Open Stax

OER Commons





# Search Activity

Let's put our heads together

4

## Working in pairs or groups...

1. Choose a group name **(3 min)**
2. Copy the Template (slide 31) - right click + “Duplicate Slide” **(2 Min)**
3. Using an OER repository, find one OER that could be useful to your work, your patrons, or industry colleagues **(15 min)**
4. Fill in the blanks in the template **(10 min)**



# OER Repositories

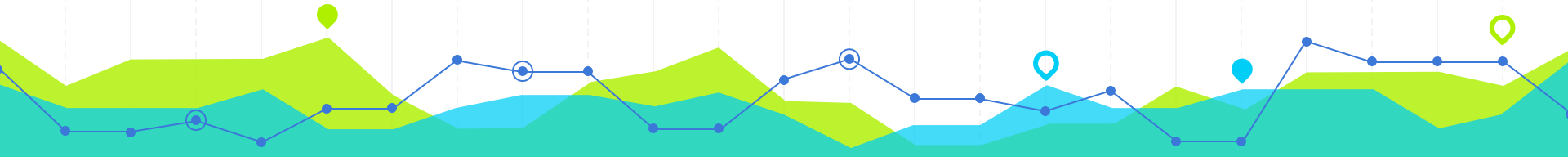
<b>OER Commons</b>	Learning objects + textbooks	<a href="https://open.bccampus.ca/find-open-textbooks/">https://open.bccampus.ca/find-open-textbooks/</a>
<b>MIT Open CourseWare</b>	Fully open courses	<a href="https://ocw.mit.edu/index.htm">https://ocw.mit.edu/index.htm</a>
<b>Merlot II</b>	Learning objects	<a href="https://www.merlot.org/merlot/index.htm">https://www.merlot.org/merlot/index.htm</a>
<b>BCCampus Open Textbooks</b>	Textbooks	<a href="https://open.bccampus.ca/find-open-textbooks/">https://open.bccampus.ca/find-open-textbooks/</a>
<b>Open Stax</b>	Textbooks	<a href="https://openstax.org/">https://openstax.org/</a>
<b>Open Data Canada</b>	Data	<a href="http://open.canada.ca/en/open-data">http://open.canada.ca/en/open-data</a>
<b>Internet Archive</b>	Multimedia / web archive	<a href="https://archive.org/">https://archive.org/</a>
<b>Open Source Software Directory</b>	Open source software	<a href="https://opensourcesoftwaredirectory.com/">https://opensourcesoftwaredirectory.com/</a>



# [Group Name]

<b>OER Title:</b>	
<b>URL:</b>	
<b>The repository where you found the OER</b>	

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**

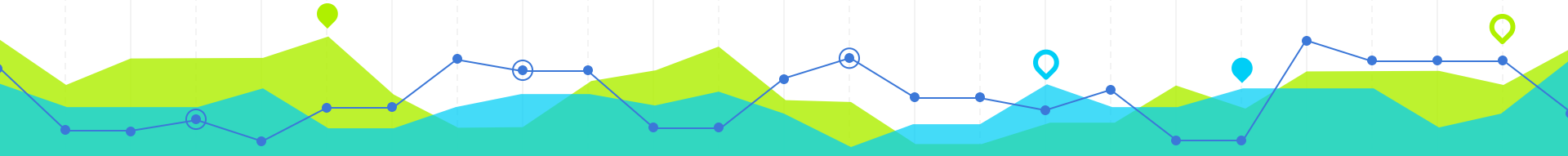


# Saint Red Deer

<b>OER Title:</b>	Stack Exchange / Stack Overflow / w3 Schools combination
<b>URL:</b>	<a href="http://stackexchange.com/sites">http://stackexchange.com/sites</a> , <a href="http://stackoverflow.com/">http://stackoverflow.com/</a> , <a href="http://www.w3schools.com/">http://www.w3schools.com/</a>
<b>The repository where you found the OER</b>	Stackoverflow found through google, w3schools as supporting tool

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**

We thought about the combination of the open question answer forum stackoverflow, which is a great resource for find “how to do X” in a various coding languages. However we included stackexchange because this format of voting answers up and down is available for more than just coding. As an open educational resource it pairs really well with something like w3schools.com which is a tutorial site. The combination of a site where the answers are presented and contested, and a site where answers are presented as facts is a good way to explore and learn.





# Dudes Abide

<b>OER Title:</b>	Technologies for Creative Learning
<b>URL:</b>	<a href="https://ocw.mit.edu/courses/media-arts-and-sciences/mas-714j-technologies-for-creative-learning-fall-2009/#">https://ocw.mit.edu/courses/media-arts-and-sciences/mas-714j-technologies-for-creative-learning-fall-2009/#</a>
<b>The repository where you found the OER</b>	MIT OpenCourseware

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**



# Green Apples

<b>OER Title:</b>	Alberta Library Directory
<b>URL:</b>	<a href="http://open.alberta.ca/publications/6656702">http://open.alberta.ca/publications/6656702</a>
<b>The repository where you found the OER</b>	Open Government Alberta

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**

Useful enough. Not a lot of context given for the document. Also, older versions of document listed, so we need to scroll through to find the most recent version.



# The Fantastic Beasts

<b>OER Title:</b>	Pybossa
<b>URL:</b>	<a href="http://pybossa.com/">http://pybossa.com/</a>
<b>The repository where you found the OER</b>	Open Source Software Directory

## Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)

“The ultimate crowdsourcing framework to analyze or enrich data that can't be processed by machines alone.”

Some features in Pybossa are:

- Uploading videos and PDFs etc.
- Import data from Amazon S3, Flickr, Dropbox, Google, Twitter, SoundCloud...
- Export the data in JSON, CSV or to a data repository like open source CKAN if you prefer.

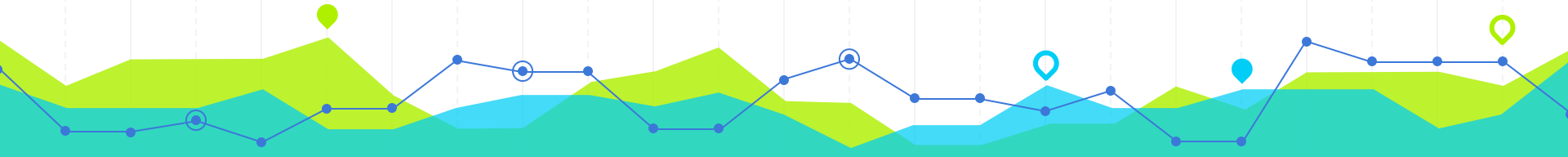


# Random

<b>OER Title:</b>	Create Your Own Comics Online
<b>URL:</b>	<a href="http://www.makebeliefscomix.com">www.makebeliefscomix.com</a>
<b>The repository where you found the OER</b>	MERLOT - Multimedia Educational Resource for Learning and Online Teaching

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**

This looks like something fun. We were looking for library resources but found that there's no one repository.



# Calmar

<b>OER Title:</b>	Computer Literacy
<b>URL:</b>	<a href="http://www.jegsworks.com//Lessons/index.htm">http://www.jegsworks.com//Lessons/index.htm</a>
<b>The repository where you found the OER</b>	Merlot II

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**

Very helpful and up to date. Would be useful to patrons in the library.



# Marvelous Marmots

<b>OER Title:</b>	Auf nach West Canada
<b>URL:</b>	
<b>The repository where you found the OER</b>	Internet archive

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**

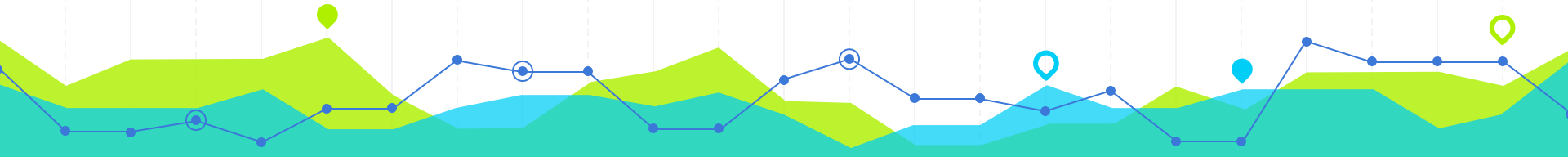


# CircForce!

<b>OER Title:</b>	Science Fiction and Fantasy Stack Xchange
<b>URL:</b>	<a href="http://scifi.stackexchange.com/">http://scifi.stackexchange.com/</a>
<b>The repository where you found the OER</b>	No repo, just interwebs.

## Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)

We wanted to know what deal Lando made with Darth Vader at the end of Empire Strikes Back, so we looked on this amazing crowdsourced resource to mine the hive mind because the deal was not made clear in the movie.



# Vidrewy

<b>OER Title:</b>	Data Management
<b>URL:</b>	<a href="https://ocw.mit.edu/resources/res-str-002-data-management-spring-2016/workshop-materials/">https://ocw.mit.edu/resources/res-str-002-data-management-spring-2016/workshop-materials/</a>
<b>The repository where you found the OER</b>	MIT

## Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)

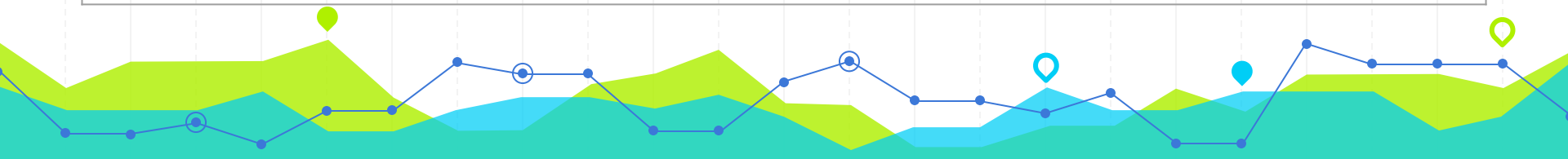
Use/resuse/open license info not apparent on individual resources

Closed format - PDF - hard to remix etc

By the MIT librarian - yay!

Metadata lacking; what year was the resource created?

Speaking notes lacking from the slide deck - uncertain what some of the slides mean?





# groupname is our name

<b>OER Title:</b>	Introductory chemistry - 1st Canadian Edition
<b>URL:</b>	<a href="https://bccampus.ca/">https://bccampus.ca/</a>
<b>The repository where you found the OER</b>	BC campus open textbook project

## Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)

Yes mostly. Not the most usability friendly interface for online reading. But free textbook with free ancillary resources (example course .pptx). Downloading may be better (eduroam didn't download fast enough).



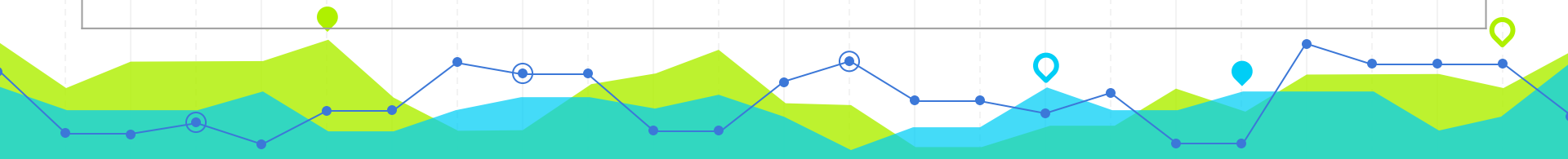
# Critical OER Guild

<b>OER Title:</b>	Energyville
<b>URL:</b>	<a href="https://www.oercommons.org/courses/energyville">https://www.oercommons.org/courses/energyville</a> ; <a href="https://web.archive.org/web/20130218211921/http://www.energyville.com/energyville/">https://web.archive.org/web/20130218211921/http://www.energyville.com/energyville/</a>
<b>The repository where you found the OER</b>	OER Commons

## Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)

This OER found in OER commons is highly biased and shows that we need critical information literacy skills when approaching OER.

The OER commons link just took us to the Chevron website so we had to do some Internet Archive slueing to find the game.



# Frank and Megan

<b>OER Title:</b>	Glaciers
<b>URL:</b>	
<b>The repository where you found the OER</b>	OER Commons

**Comments (Was the OER useful? If not, why? If you couldn't find anything, what were you looking for?)**

Can choose the language, available in French and English.  
Simulations available for environmental conditions, science and math  
Software requirements available  
Teacher submitted activities  
From University of Colorado

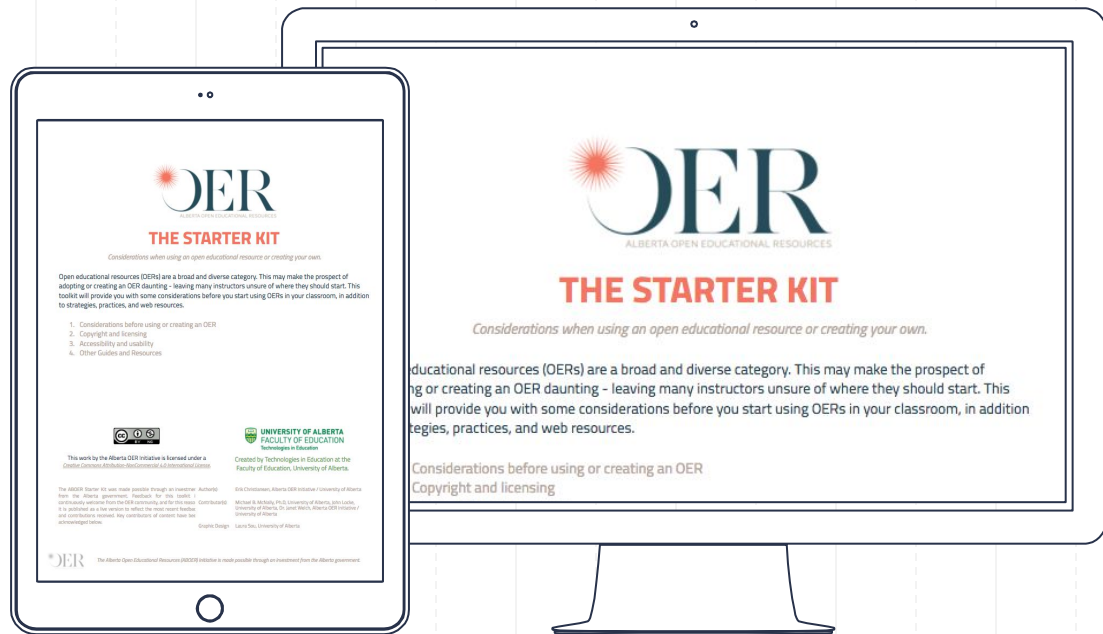




**Making your OER Available to Everyone**

**6**

# ALBERTA OER TOOLKITS



➔ **Champion's Kit**

➔ **Starter Kit**

<http://albertaoer.com>

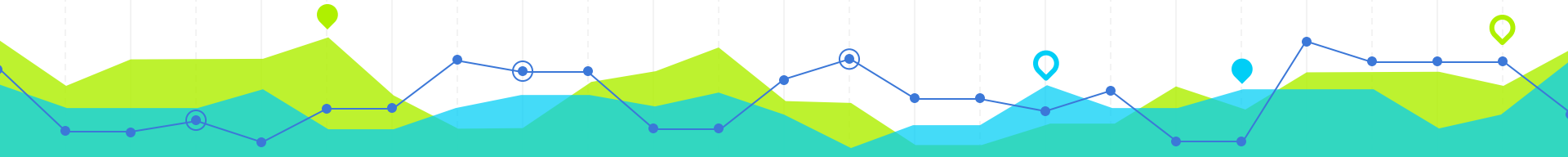
# Considerations for Users

**Does the  
OER Exist?**

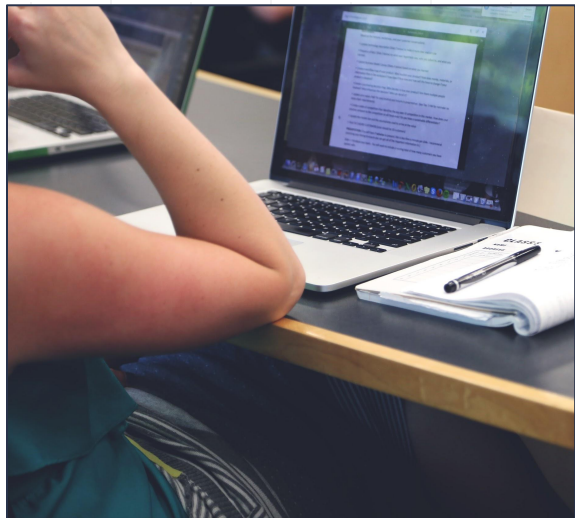
**Who is your  
Audience?**

**Expertise  
Required?**

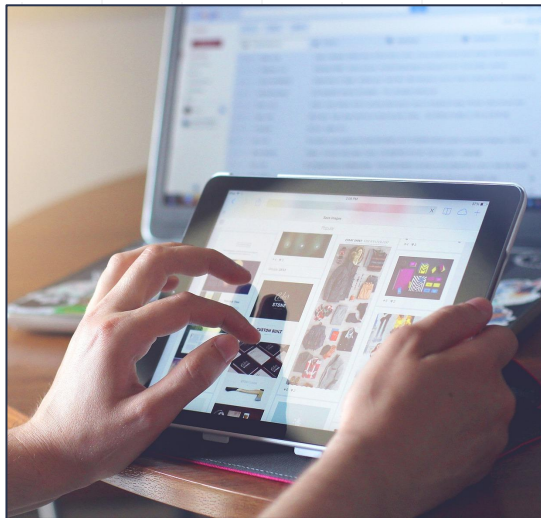
Adapted from McNutt K. and Christiansen, E. (2016). *Alberta OER Toolkits*



# Accessibility and Usability



CC0 Image



CC0 Image



CC0 Image

Adapted from McNutt K. and Christiansen, E. (2016). *Alberta OER Toolkits*

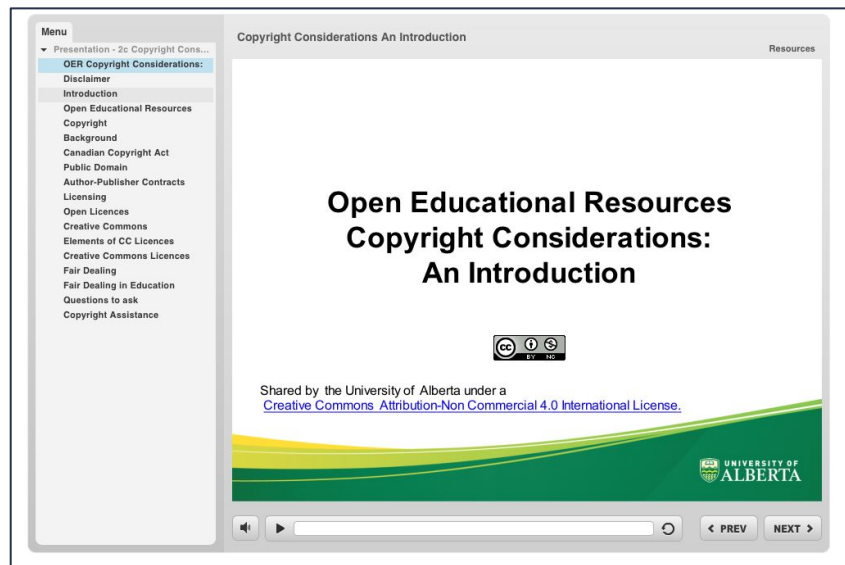


# Copyright and Licensing

## Open Licensing Frameworks

- Creative Commons
- GNU Public License
- MIT License

## UofA Copyright Tutorials



<http://copyright.ualberta.ca>



# Role of Librarians

- Locating resources
- Evaluation of resources / information literacy
- Copyright and licensing
- Advocacy
  - ♦ Spreading the word about OER
  - ♦ Including high-quality OER in your libguides
- Dissemination



Conclusion

7

# SOCIAL BENEFITS OF OER



**They promote lifelong learning**



**They expand access to learning materials to students inside, and outside, the academy.**



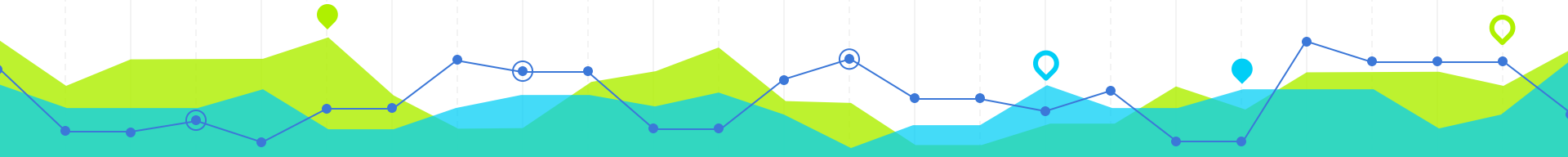


# THANKS!

## Any questions?

You can find me at

[@eriksation](#) / [echristiansen@mtroyal.ca](mailto:echristiansen@mtroyal.ca)



# REFERENCES

Christiansen, E., McNally M., Lock, J., Welch, J., Sou, L. (2016). *The starter kit*. Retrieved from <http://albertaoer.com/content/resources>

Jhangiani, Rajiv S., Rebecca Pitt, Christina Hendricks, Jessie Key and Clint Lalonde. 2016. *Explore Faculty Use of Open Educational Resources at British Columbia Post Secondary Institutions*. [https://bccampus.ca/files/2016/01/BCFacultyUseOfOER\\_final.pdf](https://bccampus.ca/files/2016/01/BCFacultyUseOfOER_final.pdf)

Lumen Learning. (2015). *What are open educational resources?* Retrieved from <http://lumenlearning.com/about-oer/>

McNally, M. (2014). *Broadening access to knowledge*. Retrieved from <https://era.library.ualberta.ca/files/jw827c89b#.WDSsMLIrL4Y>

McNutt, K., Christiansen, E., Welch, J., Sou, L. (2016). *The champions toolkit*. Retrieved from <http://albertaoer.com/content/resources>

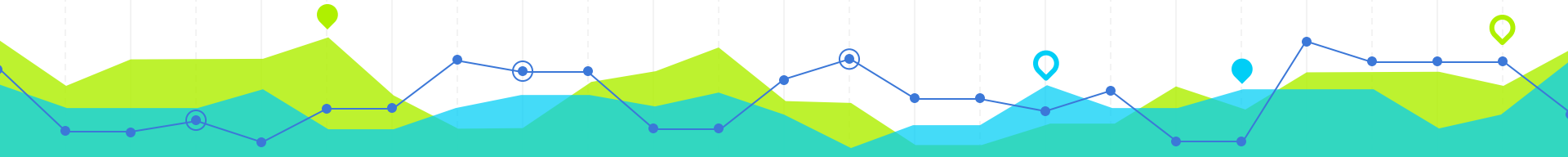
MIT OpenCourseWare. (2016, October). Retrieved from [https://ocw.mit.edu/about/site-statistics/monthly-reports/MITOCW\\_DB\\_Rpt\\_2016\\_10\\_v1.pdf](https://ocw.mit.edu/about/site-statistics/monthly-reports/MITOCW_DB_Rpt_2016_10_v1.pdf)

• MIT. 2016. “MIT OpenCourseWare Site Statistics.” [https://ocw.mit.edu/about/site-statistics/Organisation for Economic Cooperation and Development \(OECD\). 2007. Giving Knowledge for Free: The Emergence of Open Educational Resources.](https://ocw.mit.edu/about/site-statistics/Organisation%20for%20Economic%20Cooperation%20and%20Development%20(OECD).%202007.%20Giving%20Knowledge%20for%20Free:%20The%20Emergence%20of%20Open%20Educational%20Resources.%20http://www.oecd.org/edu/cei/givingknowledgeforfreetheemergenceofopeneducationalresources.htm)  
<http://www.oecd.org/edu/cei/givingknowledgeforfreetheemergenceofopeneducationalresources.htm>



# PARTICIPANT ATTRIBUTIONS

[LAST, FIRST - OCCUPATION - PLACE OF WORK]



For an editable version of this document, please contact Erik Christiansen using the link below.

Website: <https://erikchristiansen.net/contact/>