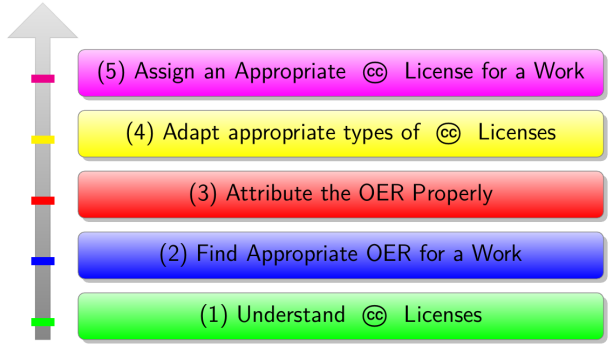



*5Rs according to*
*https://opencontent.org/definition/*

Icons by The Noun Project, https://creativecommons.org/about/downloads/
Licensed under a Creative Commons Attribution 4.0 International License
(https://creativecommons.org/licenses/by/4.0/).

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

# *Using Open Educational Resources (OER) for Academic Activities*

Professor Dr. Mazharul Islam, P.Eng. (Alberta, Canada)

*Director, Institutional Quality Assurance Cell (IQAC)*
*Ahsanullah University of Science and Technology, Dhaka, Bangladesh*

Licensed under the Creative Commons Attribution-ShareAlike 4.0 International License
(https://creativecommons.org/licenses/by-sa/4.0/)

1 *Learning Outcomes*

2 *Brain Storming*

3 *Introduction*

4 *Licenses*

5 *Finding OER*

6 *Attribution (BY)*

7 *Adaptation*

8 *Assigning a License for a Personal Work*

9 *Quiz*

10 *Summary*

# *Session Learning Outcomes*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*© Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a © License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

After the completion of this session, the participants should be able to

- explain the © Licenses
- find suitable OER
- attribute different types of OER
- adapt different types of OER appropriately
- select an appropriate license for a work containing resources with different types of © Licenses

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a License for a Personal Work
9 Quiz
10 Summary

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 © Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a © License for a Personal Work
9 Quiz
10 Summary

# *Open Educational Resources (OER)*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

- "*Open Educational Resources (OER) are teaching and learning materials that you may freely use and reuse at no cost*" [1]
- "*Unlike copyrighted resources, OER have been authored or created by an individual or organization that chooses to retain few, if any, ownership rights*" [1]
- Usually shared through Creative Commons (CC) licenses

# *Benefits of OER*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

- can be used with proper attributions without contacting the copyright owner;
- freely available;
- save time as they are readily available;
- improve quality of works;
- and more...

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

"*learning, teaching and research materials in any format and medium that reside in the public domain or are copyright that have been released under and open license, that permit no-cost access, re-use, re-purpose, adaptation and redistribution by other*" [2]

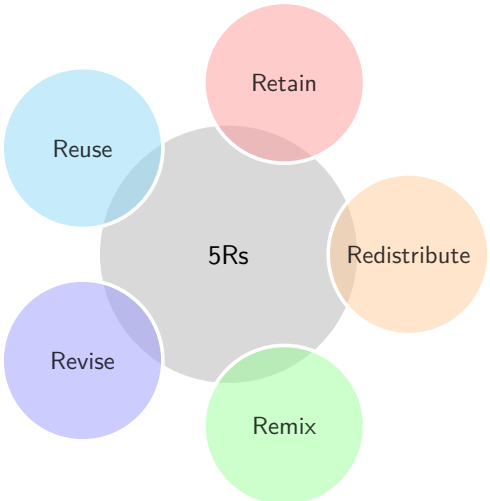
# *Types of OER*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

- documents
- images
- infographics
- audios
- videos
- Full university courses

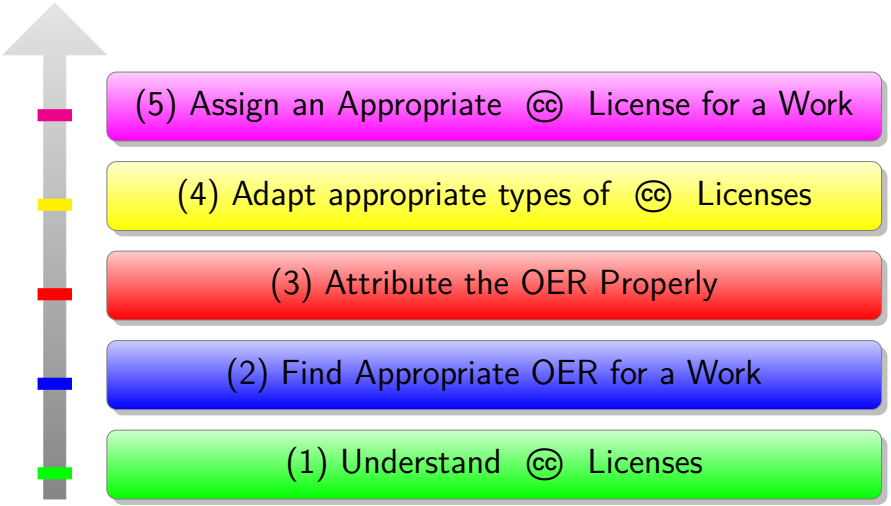
# 5Rs according to https://opencontent.org/definition/

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography



# *The Process of Using OER*


*Learning Outcomes*
*Brain Storming*
*Introduction*
*© Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a © License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 © Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a © License for a Personal Work
9 Quiz
10 Summary

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

"*a license that respects the intellectual property rights of the copyright owner and provides permissions granting the public the rights to access, re-use, re-purpose, adapt and redistribute educational materials*" [2]

Learning Outcomes
Brain Storming
Introduction
© Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a © License for a Personal Work
Quiz
Summary
Bibliography

"*the most popular licensing system*" [3]

# 3 Layers in Creative Commons ( cc ) Licenses [4]

Learning Outcomes
Brain Storming
Introduction
cc Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a cc License for a Personal Work
Quiz
Summary
Bibliography

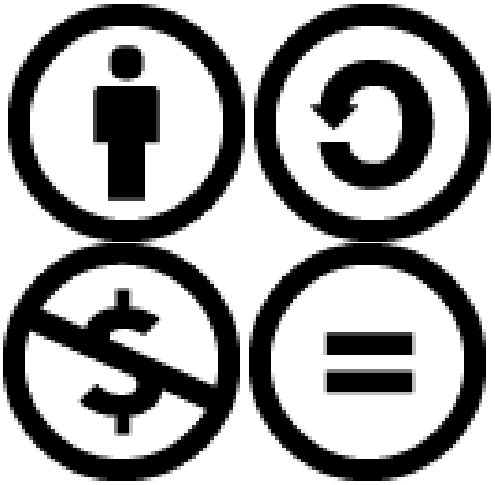
"Legal Code"

"Human Readable"

"Machine Readable"

# *Four Creative Commons (CC) License Elements*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*



Icons by The Noun Project, https://creativecommons.org/about/downloads/
Licensed under a Creative Commons Attribution 4.0 International License (https://creativecommons.org/licenses/by/4.0/).

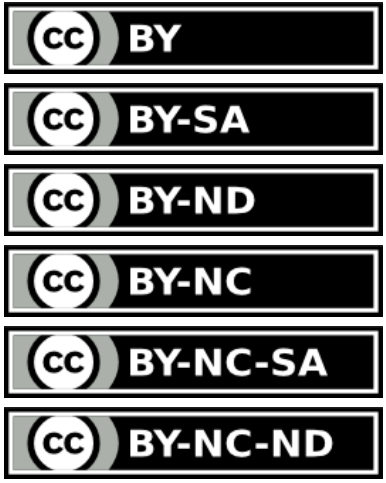
# *Public Domain*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

Icons by The Noun Project, https://creativecommons.org/about/downloads/
Licensed under a Creative Commons Attribution 4.0 International License
(https://creativecommons.org/licenses/by/4.0/).

# *Six Types of © Licenses*


*Learning Outcomes*
*Brain Storming*
*Introduction*
*© Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a © License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*



Icons by The Noun Project, https://creativecommons.org/about/downloads/
Licensed under a Creative Commons Attribution 4.0 International License (https://creativecommons.org/licenses/by/4.0/).

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a License for a Personal Work
9 Quiz
10 Summary

# *Where to Find OER?*


*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*


**Search**

https://search.creativecommons.org

**OER Commons**

https://www.oercommons.org

**Google Advanced Search**

https://www.google.com/advanced_search

**FIND OER**

https://start.me/p/QRDO7R/find-oer

# Where to Find OER?

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

**YouTube**

Use the "Creative Commons" Feature in FILTERS

**flicker**

https://www.flickr.com/creativecommons

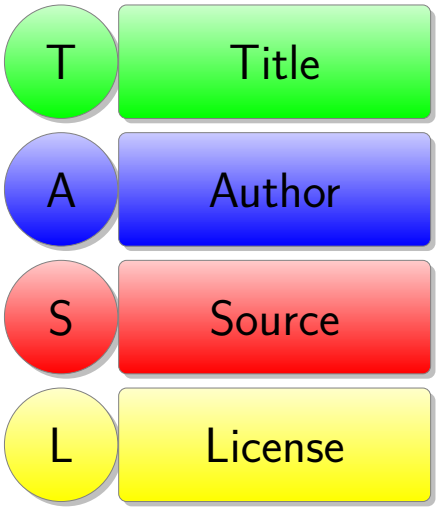
**vimeo**

https://vimeo.com/creativecommons

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a License for a Personal Work
9 Quiz
10 Summary

# *Title-Author-Source-License (TASL)*


*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

# *Useful Links*

- https://creativecommons.org/choose/
- https://www.openwa.org/attrib-builder/

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a License for a Personal Work
9 Quiz
10 Summary

# *Adapter's Chart [3, pp. 44]*


*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
***Adaptation***
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

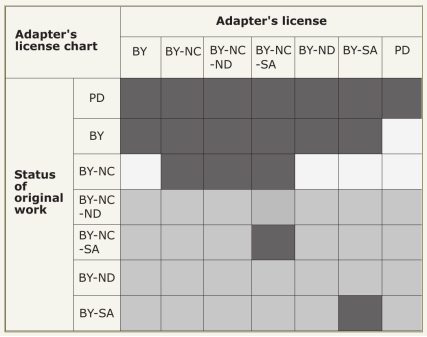

| | PUBLIC DOMAIN | PUBLIC DOMAIN | BY | BY SA | BY NC | BY ND | BY NC SA | BY NC ND |
|---|---|---|---|---|---|---|---|---|
| PUBLIC DOMAIN | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | × |
| PUBLIC DOMAIN | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | × |
| BY | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | × |
| BY SA | ✓ | ✓ | ✓ | ✓ | × | × | × | × |
| BY NC | ✓ | ✓ | ✓ | × | ✓ | × | ✓ | × |
| BY ND | × | × | × | × | × | × | × | × |
| BY NC SA | ✓ | ✓ | ✓ | × | ✓ | × | ✓ | × |
| BY NC ND | × | × | × | × | × | × | × | × |


"Understanding Open Educational Resources" by N. Butcher and A. Moore,
URL: `http://oasis.col.org/handle/11599/1013`),
Creative Commons Attribution-ShareAlike 4.0 License (International)
(`https://creativecommons.org/licenses/by-sa/4.0/`),
©2015 by the Commonwealth of Learning.

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 © Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a © License for a Personal Work
9 Quiz
10 Summary

# *Adapter's License [3, pp. 44]*


*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

| Adapter's license chart | | Adapter's license | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | BY | BY-NC | BY-NC-ND | BY-NC-SA | BY-ND | BY-SA | PD |
| Status of original work | PD | | | | | | | |
| | BY | | | | | | | |
| | BY-NC | | | | | | | |
| | BY-NC-ND | | | | | | | |
| | BY-NC-SA | | | | | | | |
| | BY-ND | | | | | | | |
| | BY-SA | | | | | | | |


"Understanding Open Educational Resources" by N. Butcher and A. Moore,
URL: `http://oasis.col.org/handle/11599/1013`),
Creative Commons Attribution-ShareAlike 4.0 License (International)
(`https://creativecommons.org/licenses/by-sa/4.0/`),
©2015 by the Commonwealth of Learning.

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a License for a Personal Work
9 Quiz
10 Summary

# *Question # 1: Use of Resources from (1) the Public Domain, and (2) CC BY-NC-SA*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*© Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a © License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

Aerodynamics (ME 4019) Lecture Slides on "Incompressible Flow over Finite Wings - Part 1" using resources from

- MITOPENCOURSEWARE
  URL: https://ocw.mit.edu/courses/aeronautics-and-astronautics/16-01-unified-engineering-i-ii-iii-iv-fall-2005-spring-2006/index.htm; and
- Federal Aviation Administration's "Pilot's Handbook of Aeronautical Knowledge"
  URL: https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/phak/
- NASA
  tiny URL: https://www.grc.nasa.gov/www/k-12/airplane/Images/downwash.gif

Are we allowed to mix resources with PD ( © 0) and © BY-NC-SA licenses?

# *Question # 2: Use of Resources from (1) the Public Domain, and (2) CC BY-NC-SA*

*Learning Outcomes*
*Brain Storming*
*Introduction*
*Licenses*
*Finding OER*
*Attribution (BY)*
*Adaptation*
*Assigning a License for a Personal Work*
*Quiz*
*Summary*
*Bibliography*

Aerodynamics (ME 4019) Lecture Slides on "Incompressible Flow over Finite Wings - Part 1" using resources from

- MITOPENCOURSEWARE
  URL: https://ocw.mit.edu/courses/aeronautics-and-astronautics/16-01-unified-engineering-i-ii-iii-iv-fall-2005-spring-2006/index.htm; and
- Federal Aviation Administration's "Pilot's Handbook of Aeronautical Knowledge"
  URL: https://www.faa.gov/regulations_policies/handbooks_manuals/aviation/phak/
- NASA
  tiny URL: `https://www.grc.nasa.gov/www/k-12/airplane/Images/downwash.gif`

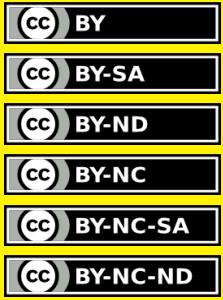
What should be license for this document?

1 Learning Outcomes
2 Brain Storming
3 Introduction
4 Licenses
5 Finding OER
6 Attribution (BY)
7 Adaptation
8 Assigning a License for a Personal Work
9 Quiz
10 Summary

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

## Licenses

Icons by The Noun Project,
https://creativecommons.org/about/downloads/
Licensed under a Creative Commons Attribution 4.0 International License (https://creativecommons.org/licenses/by/4.0/).




Icons by The Noun Project,
https://creativecommons.org/about/downloads/
Licensed under a Creative Commons Attribution 4.0 International License (https://creativecommons.org/licenses/by/4.0/).

# Summary

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

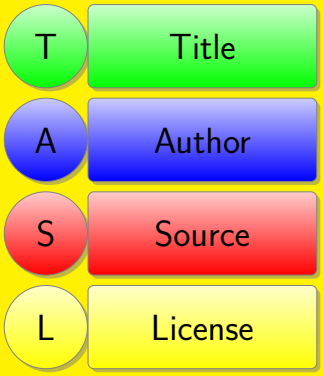
**Finding OER**

- ✓ Different sites are available
- ✓ Google Advanced Search is quite useful
- ✓ "Creative Commons" Feature in FILTERS can be used in YouTube

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

**Attribution ( BY )**

Remember Title-Author-Source-License(TASL)



Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

## Adaptation

- ✓ Use the Adapter's Chart [3, pp. 44]
- ✓ Special attention should be paid regarding SA, NC, and ND

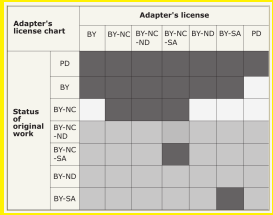
| | PUBLIC DOMAIN | PUBLIC DOMAIN | BY | BY SA | BY NC | BY NC SA | BY ND | BY NC ND |
|---|---|---|---|---|---|---|---|---|
| PUBLIC DOMAIN | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | × |
| PUBLIC DOMAIN | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | × |
| BY | ✓ | ✓ | ✓ | ✓ | ✓ | × | ✓ | × |
| BY SA | ✓ | ✓ | ✓ | ✓ | × | × | × | × |
| BY NC | ✓ | ✓ | ✓ | × | ✓ | × | ✓ | × |
| BY NC SA | × | × | × | × | × | × | × | × |
| BY ND | ✓ | ✓ | ✓ | × | ✓ | × | ✓ | × |
| BY NC ND | × | × | × | × | × | × | × | × |

"Understanding Open Educational Resources" by N. Butcher and A. Moore,
URL: http://oasis.col.org/handle/11599/1013),
Creative Commons Attribution-ShareAlike 4.0 License (International)
(https://creativecommons.org/licenses/by-sa/4.0/),
©2015 by the Commonwealth of Learning.

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

## Assigning a License for a Personal Work

✓ Use the Adapter's License chart [3, pp. 44]



| Adapter's license chart | | Adapter's license | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | BY | BY-NC | BY-NC-ND | BY-NC-SA | BY-ND | BY-SA | PD |
| Status of original work | PD | | | | | | | |
| | BY | | | | | | | |
| | BY-NC | | | | | | | |
| | BY-NC-ND | | | | | | | |
| | BY-NC-SA | | | | | | | |
| | BY-ND | | | | | | | |
| | BY-SA | | | | | | | |

"Understanding Open Educational Resources" by N. Butcher and A. Moore,
URL: http://oasis.col.org/handle/11599/1013),
Creative Commons Attribution-ShareAlike 4.0 License (International)
(https://creativecommons.org/licenses/by-sa/4.0/),
©2015 by the Commonwealth of Learning.

# References

## I

Learning Outcomes
Brain Storming
Introduction
Licenses
Finding OER
Attribution (BY)
Adaptation
Assigning a License for a Personal Work
Quiz
Summary
Bibliography

[1] "OER Commons - Open Access Resources." url: https://oaresources.org/resources/oer-commons/.

[2] UNESCO, "Recommendation on Open Educational Resources (OER)," 2019. URL of the PDF Version: https://unesdoc.unesco.org/ark:/48223/pf0000373755/PDF/373755eng.pdf.multi#page=3.

[3] N. Butcher and A. Moore, *Understanding Open Educational Resources*. Commonwealth of Learning (COL), 2015. url: http://oasis.col.org/handle/11599/1013.

[4] C. Commons, "About The Licenses," n.d. URL: https://creativecommons.org/licenses/, accessed on August 2, 2021.