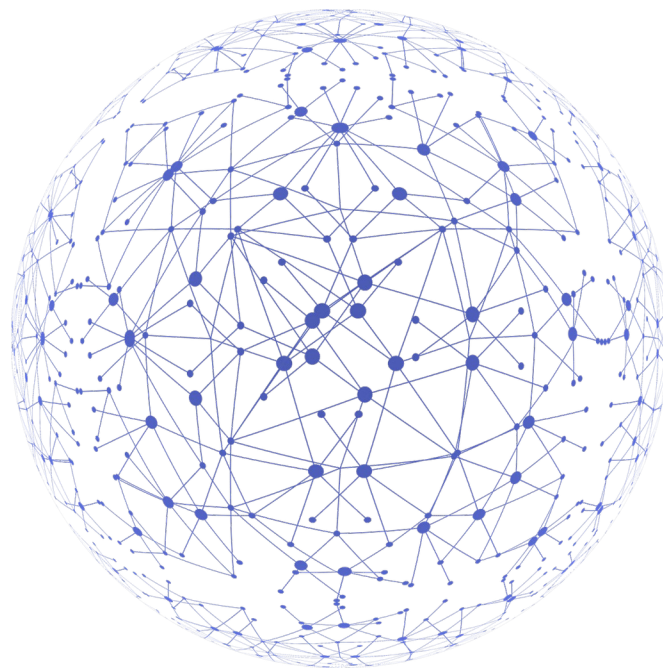


Recursos Eduacionais Abertos

Definições e uso

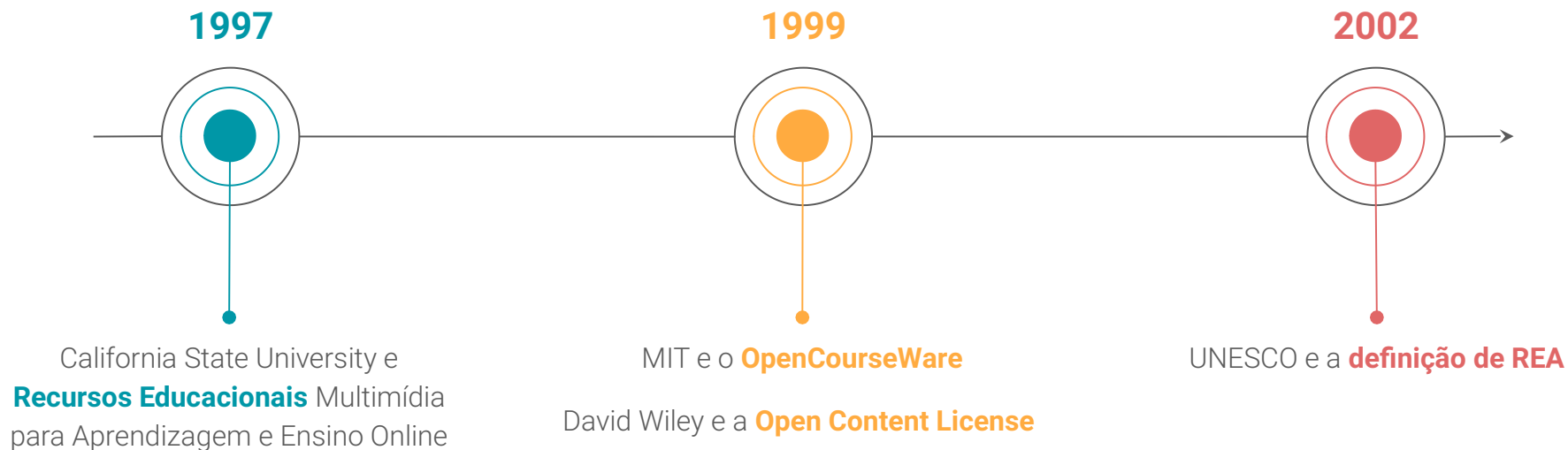


Sumário

- O que são Recursos Educacionais Abertos (REA)?
- Como podemos usar REA?
- Desafios e oportunidades



Recursos Educacionais Abertos (breve histórico)



Recursos Educacionais Abertos

- O que são REA?

*“São materiais de **aprendizagem, ensino e pesquisa** em qualquer formato e meio que residem no domínio público ou estão sob direitos autorais que foram lançados sob uma licença aberta, que permitem **acesso gratuito, re-uso, re-propósito, adaptação e redistribuição** por outros”*

- UNESCO (2019)

Recursos Educacionais Abertos

PROPÓSITO EDUCACIONAL



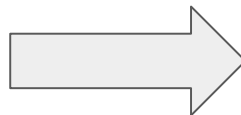
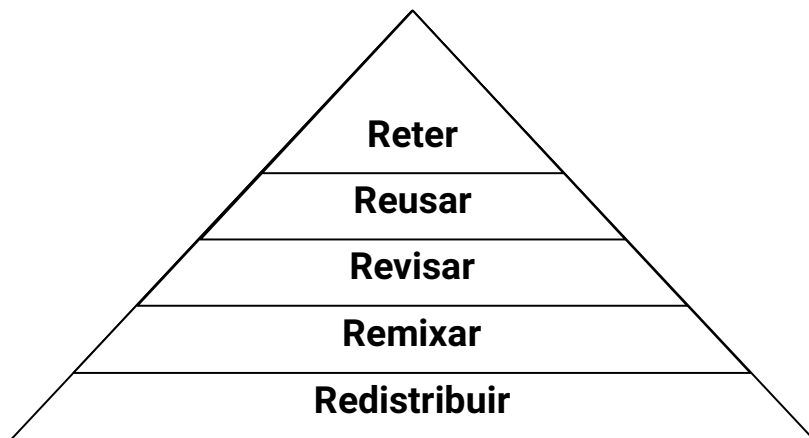
O conteúdo do recurso **deve** apoiar o ensino, aprendizagem ou pesquisa

ABERTURA



O recurso **deve** ser projetado considerando a maior abertura possível

Recursos Educacionais **Abertos**



Abertura técnica

Abertura social

**Abertura como
característica do
recurso**

David Wiley. [The Access Compromise and the 5th R](#)

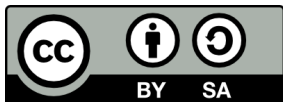
Licenças abertas

- A **abertura de um recurso pode variar** conforme diferentes contextos
- No entanto, é essencial que o conteúdo de um REA sempre esteja sob **licença aberta ou pública**
 - Domínio público
 - Licenças do software livre
 - Licenças *Creative Commons*
 - ...

Creative Commons



[CC BY](#): Distribuir, remixar, adaptar e desenvolver o material em qualquer meio ou formato, desde que a atribuição seja dada ao criador. A licença permite o uso comercial



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Onde encontrar REA?

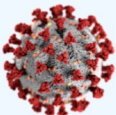
- REA **não possuem** uma estrutura fixa ou fonte estável
- REA estão distribuídos em diferentes sites, repositórios, plataformas
- Por isso é essencial **entender** o conceito de REA para saber quando e como encontrá-los

Onde encontrar REA?

[Upload](#)[Communities](#)[Log in](#)[Sign up](#)

Featured communities

Need help uploading? [Contact us](#)



Coronavirus Disease Research Community - COVID-19

This community collects research outputs that may be relevant to the Coronavirus Disease (COVID-19) or the SARS-CoV-2. Scientists are encouraged to upload their outcome in this collection to facilitate sharing and discovery of information. Although Open Access articles and datasets are...

Curated by: Covid19_Team_OpenAIRE

[Browse](#)[New upload](#)

Recent uploads

[June 11, 2021 \(v2.0\)](#)[Other](#)[Open Access](#)

Community Guiding Principles for the National COVID Cohort Collaborative (N3C)

N3C Consortium

N3C Community Guiding Principles This Community Guiding Principles document outlines expectations of every N3C community member, which includes institutions and individuals who use N3C resources, expertise, and data. The N3C community is committed to providing a welcoming and inspiring...

Uploaded on June 12, 2021
1 more version(s) exist for this record

[View](#)

[June 11, 2021 \(v50\)](#)[Dataset](#)[Open Access](#)

BIP4COVID19: Impact metrics and indicators for coronavirus related publications

Thanasia Vergoulis, Ilias Kaniellou, Serafeim Chatzopoulos, Danae Pla Karidi, Theodore Dalamagas

This dataset contains impact metrics and indicators for a set of publications that are related to the COVID-19 infectious disease and the coronavirus that causes it. It is based on the COVID-19 dataset released by the team of Semantic Scholar1 and The curated data provided by the LitCovid hub2...

Uploaded on June 11, 2021
56 more version(s) exist for this record

[View](#)

[June 11, 2021 \(v1.0\)](#)[Dataset](#)[Open Access](#)

Rapid Creation of a Data Product for the World's Specimens of Horseshoe Bats and Relatives, a Known Reservoir for Coronaviruses

Mast, Austin R., Paul, Deborah L., Rios, Nelson, Bruhn, Robert, Dalton, Trevor, Krimmel, Erica R., Pearson, Katelyn D., Sherman, Aja, Shorthouse, David P., Simmons, Nancy B., Soltis, Pam, Upham, Nathan

Need help?

Zenodo prioritizes all requested related to the COVID-19 outbreak.

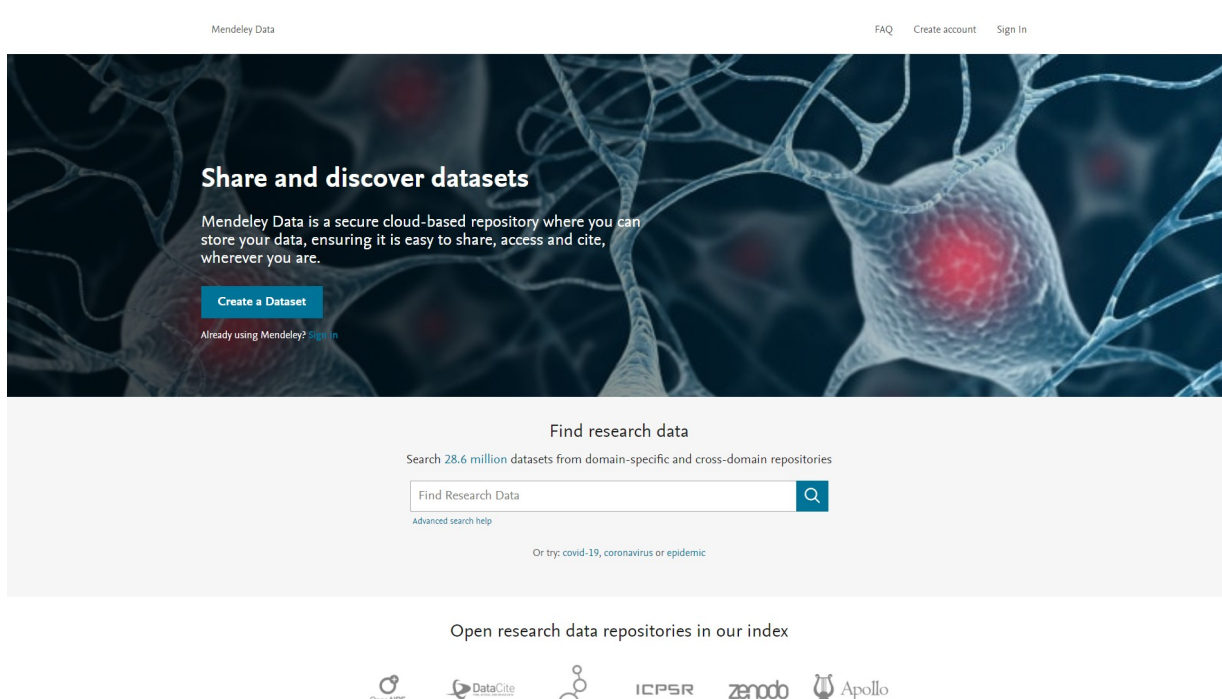
We can help with:

- Uploading your research data, software, preprints, etc.
- One-on-one with Zenodo supporters.
- Quota increases beyond our default policy.
- Scripts for automated uploading of larger datasets.

Why use Zenodo?

- **Safe** – your research is stored safely for the future in CERN's Data Centre for as long as CERN exists.
- **Trusted** – built and operated by CERN and OpenAIRE to ensure that everyone can join in Open Science.
- **Citeable** – every upload is assigned a Digital Object Identifier (DOI), to make them citable and trackable.
- **No waiting time** – Uploads are made available online as soon as you hit publish, and your DOI is registered within seconds.
- **Open or closed** – Share e.g. anonymized clinical trial data with only medical

Onde encontrar REA?



The screenshot shows the Mendeley Data website. At the top, there is a navigation bar with links for 'Mendeley Data', 'FAQ', 'Create account', and 'Sign In'. The main header features a large image of a neuron with a glowing red nucleus. Overlaid on this image is the text 'Share and discover datasets' and a description: 'Mendeley Data is a secure cloud-based repository where you can store your data, ensuring it is easy to share, access and cite, wherever you are.' Below this is a blue button labeled 'Create a Dataset' and a link 'Already using Mendeley? Sign in'. The middle section is titled 'Find research data' and includes a search bar with the placeholder text 'Find Research Data' and a magnifying glass icon. Below the search bar is a link for 'Advanced search help' and a suggestion 'Or try: covid-19, coronavirus or epidemic'. The bottom section is titled 'Open research data repositories in our index' and displays logos for OpenAIRE, DataCite, ICPSR, zenodo, and Apollo.

Mendeley Data

FAQ Create account Sign In

Share and discover datasets

Mendeley Data is a secure cloud-based repository where you can store your data, ensuring it is easy to share, access and cite, wherever you are.

Create a Dataset

Already using Mendeley? [Sign in](#)

Find research data

Search 28.6 million datasets from domain-specific and cross-domain repositories

Find Research Data

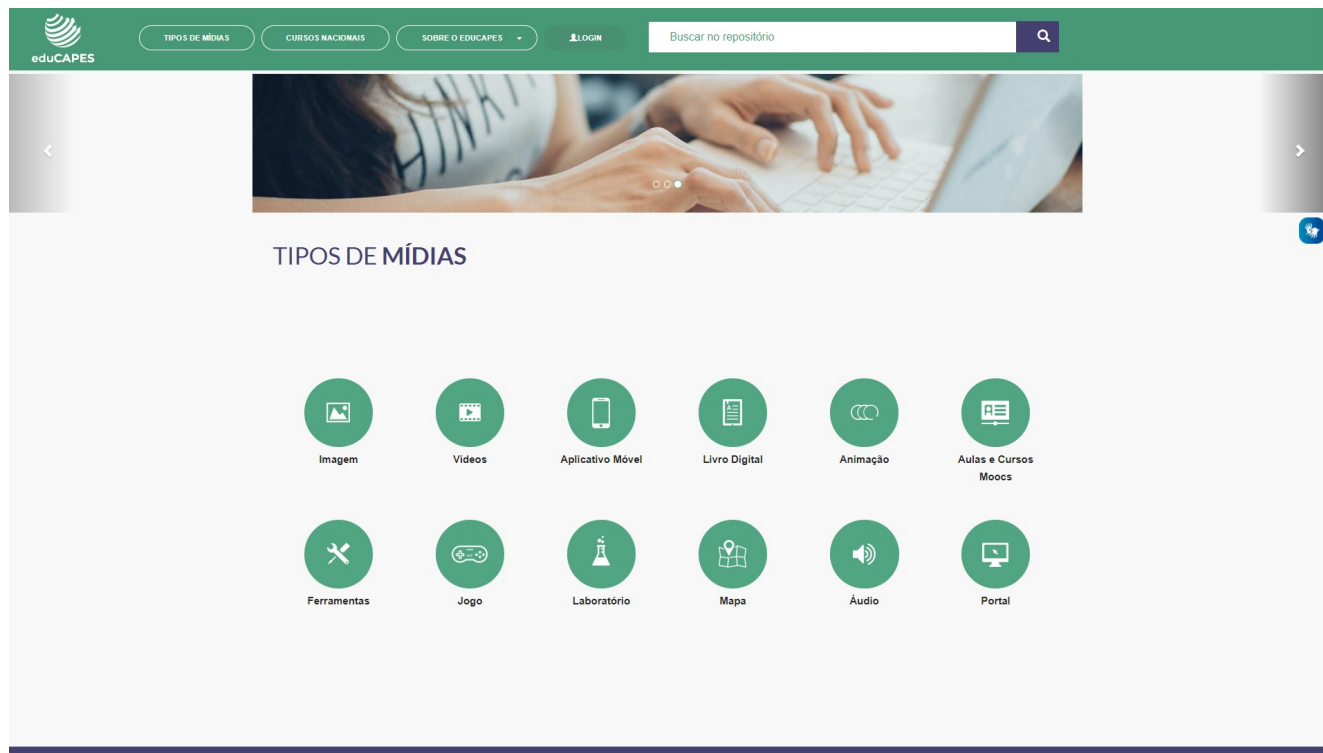
[Advanced search help](#)

Or try: covid-19, coronavirus or epidemic

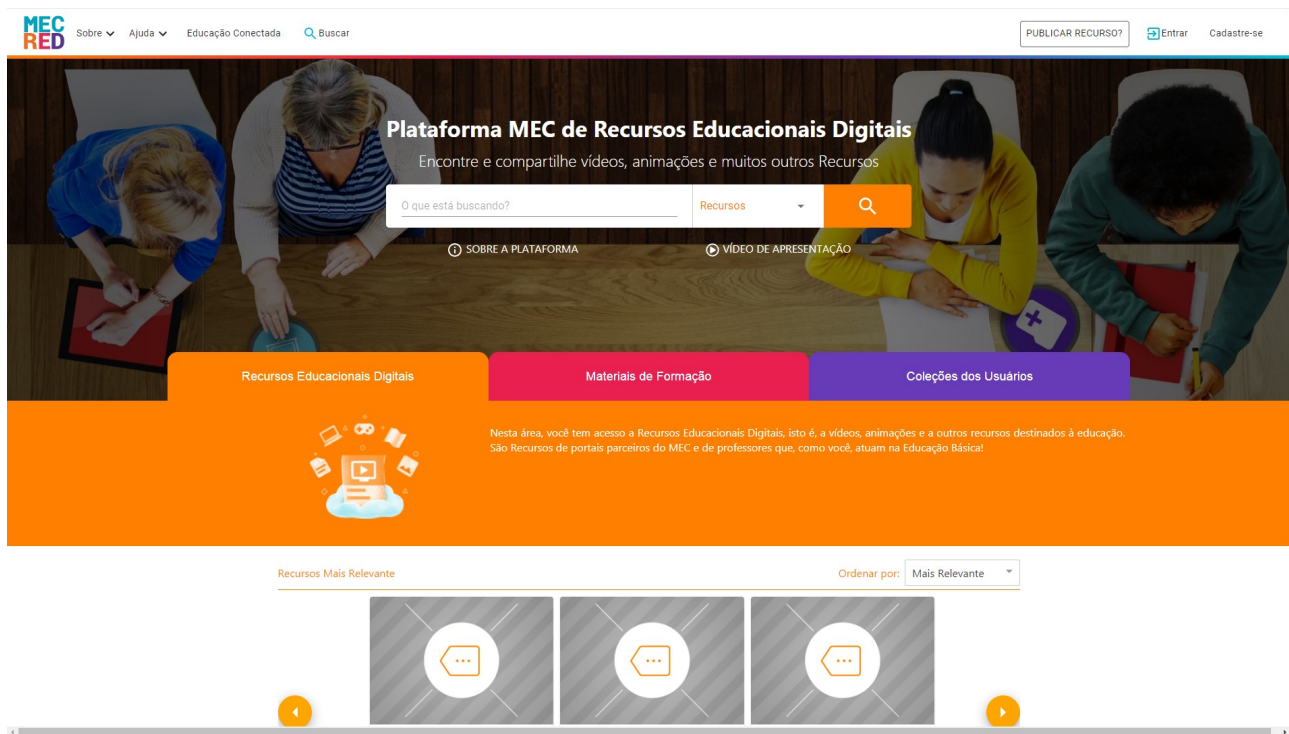
Open research data repositories in our index

OpenAIRE DataCite ICPSR zenodo Apollo

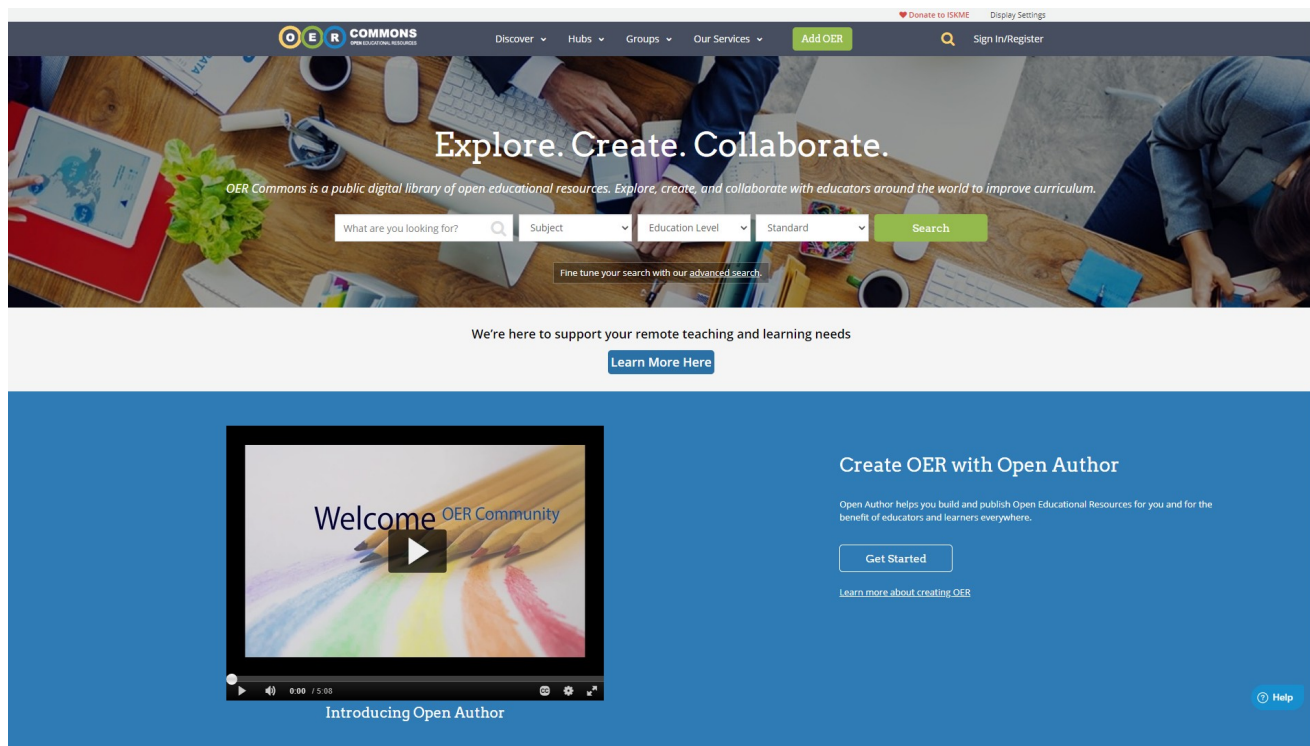
Onde encontrar REA?



Onde encontrar REA?



Onde encontrar REA?



The screenshot shows the OER Commons website homepage. At the top, there is a navigation bar with the OER Commons logo, links for Discover, Hubs, Groups, and Our Services, and a green 'Add OER' button. A search bar is also present with a magnifying glass icon and a 'Sign In/Register' link. Below the navigation bar is a large hero section with a background image of people working at a desk. The text 'Explore. Create. Collaborate.' is prominently displayed in the center. Below this, a smaller line of text reads: 'OER Commons is a public digital library of open educational resources. Explore, create, and collaborate with educators around the world to improve curriculum.' A search bar with the placeholder 'What are you looking for?' and dropdown menus for 'Subject', 'Education Level', and 'Standard' is provided, along with a green 'Search' button. A link for 'Fine tune your search with our advanced search' is also visible. Below the hero section, a white box contains the text 'We're here to support your remote teaching and learning needs' and a blue 'Learn More Here' button. The bottom section has a blue background. On the left, there is a video player showing a 'Welcome OER Community' message with a play button. Below the video player is the text 'Introducing Open Author'. On the right, the text 'Create OER with Open Author' is displayed, followed by a description of Open Author's purpose and a 'Get Started' button. A link for 'Learn more about creating OER' is also present. A 'Help' button is located in the bottom right corner.

OER Commons

Discover Hubs Groups Our Services Add OER

Donate to ISKME Display Settings

Explore. Create. Collaborate.

OER Commons is a public digital library of open educational resources. Explore, create, and collaborate with educators around the world to improve curriculum.

What are you looking for? Subject Education Level Standard Search

Fine tune your search with our advanced search

We're here to support your remote teaching and learning needs

Learn More Here

Welcome OER Community

Introducing Open Author

Create OER with Open Author

Open Author helps you build and publish Open Educational Resources for you and for the benefit of educators and learners everywhere.

Get Started

Learn more about creating OER

Help

[OER Commons](#)

Onde encontrar REA?

MERLOT Browse Add Communities Partner Benefits News & Info About MERLOT Log In Sign Up ?

Search keywords, title, URL, ISBN, or author Search Advanced Search Options

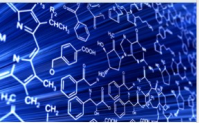
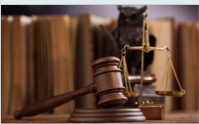
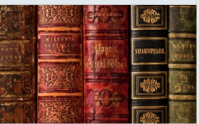
Home / Academic Discipline Community Portals

Community Portals

Filter by

Community Type

- Academic Disciplines (24)
- Academic Support (9)
- Academic Partners (72)
- Industry Partners (14)

Agriculture and Environmental Sciences  Bookmark Go to portal	Biology  Bookmark Go to portal	Business  Bookmark Go to portal	Chemistry  Bookmark Go to portal	Communication Sciences and Disorders  Bookmark Go to portal
Computer Science  Bookmark Go to portal	Criminal Justice  Bookmark Go to portal	Engineering  Bookmark Go to portal	English  Bookmark Go to portal	Fire Safety  Bookmark Go to portal
Health Sciences  Bookmark Go to portal	History  Bookmark Go to portal	Information Technology  Bookmark Go to portal	Instructional Design and Technology  Bookmark Go to portal	Mathematics  Bookmark Go to portal

Onde encontrar REA?

The screenshot shows the MIT OpenCourseWare website interface. At the top, there's a navigation bar with the MIT OpenCourseWare logo, a 'Subscribe to the OCW Newsletter' button, and social media icons. Below this is a secondary navigation bar with links like 'Home', 'Find Courses', 'For Educators', 'Give Now', and 'About'. A search bar is also present.

The main content area is for the course 'Introduction to Computer Science and Programming in Python'. It features a sidebar with a table of contents including 'COURSE HOME', 'SYLLABUS', 'READINGS', 'LECTURE VIDEOS', 'LECTURE SLIDES AND CODE', 'IN-CLASS QUESTIONS AND VIDEO SOLUTIONS', 'ASSIGNMENTS', and 'DOWNLOAD COURSE MATERIALS'. The 'LECTURE VIDEOS' section is currently selected.

The main content area displays the course title, a large image of a keyboard, and instructor information: Dr. Ana Bell, Prof. Eric Grimson, and Prof. John Guttag. It also shows the MIT Course Number (6.0001), the term (Fall 2019), and the level (Undergraduate). A 'CITE THIS COURSE' button is available.

Below the instructor information, there's a 'Course Features' section with links to 'Video lectures', 'Interactive assessments', 'Assignments, problem sets, (no solutions)', 'Captions/transcript', 'Lecture notes', and 'Assignments, programming with examples'. A 'Course Description' section follows, detailing the course's goals and the use of Python 3.5.

At the bottom, there's a 'Course Collections' section with links to 'Cross-Disciplinary Lists' and 'Introductory Programming Courses'. A footer bar at the very bottom contains the text 'Need help getting started?' and a link to 'Don't show me this again'.

Onde encontrar recursos comuns?

Share your work on a Creative Commons platform

We work with platforms like Wikipedia, Flickr, and Vimeo to provide their users with the option of licensing works with CC licenses. Through these platforms, over 1.4 billion works have been shared and counting!

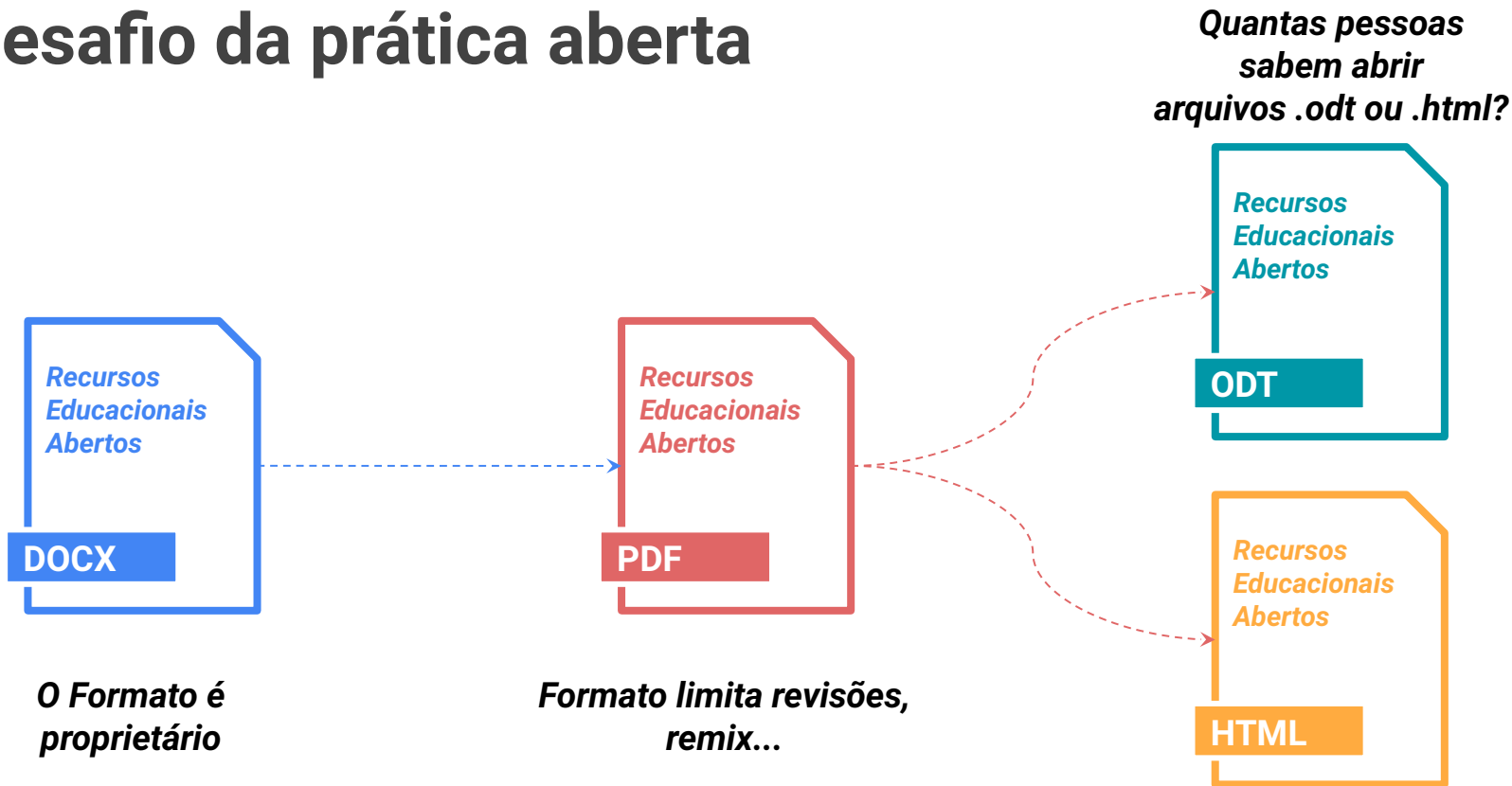


[Creative Commons](#)

Mas, temos problemas

- REA só tem benefício?
- Existem diversos desafios que impedem que todo o potencial dos REA sejam, de fato, alcançado
- Tais desafios representam oportunidades de pesquisa

O desafio da prática aberta



Desafios - Problemas técnicos

- Pesquisar por um REA geralmente é uma **tarefa cansativa**
 - Não encontramos resultados relevantes
 - Muitos resultados são retornados ou nenhum resultado é retornado
 - Colisão de busca/termos/assuntos
- Problemas no processo de **classificação** do recurso
 - Fontes possuem categorias ou disciplinas primitivas
 - REA podem ser dinâmicos e por vezes complexos
- Falta de **documentação e apoio** sobre como fazer uso de repositórios e iniciativas abertas
- Desenvolvimento de ferramentas abertas

Desafios - A questão dos direitos autorais



Wikimedia, [CC BY-SA 4.0](#)

- **Falta de conhecimento** sobre uso e funcionamento de licenças abertas
- **Dúvidas** sobre direitos autorais no geral
- Dificuldades de fomentar a prática e a cultura aberta
- Saber quais são as **“dores”** dos alunos, professores e pesquisadores

Ciência e pesquisa

[Simpósio Brasileiro de Informática na Educação](#)

[Workshop sobre Educação em Computação](#)

[Simpósio Brasileiro de Educação em Computação](#)

1st Annual Student OER Contest



This contest is officially endorsed by the IEEE Education Society.

Win Up To \$1,000 and Free COMPSAC Conference Registration



The IEEE Computer Society Computers, Software, and Applications Conference (COMPSAC), in honor of the *Computer Society's 75th anniversary*, is announcing COMPSAC's first Annual Student OER Contest and invites undergraduate college/university student submissions.

OERs (Open Educational Resources) are Web-accessible entities that can be used by teachers to teach, or students to learn. Submissions are open to undergraduate higher education students, working alone or in teams of up to 4, who have developed a Web-based OER that can be used for teaching or learning at the undergraduate college or university level of Computer Science or Information Technology.

You and your team can win:

First Prize

\$1000/team + free conference registration

For every team member access to all presentations and papers (\$450 value for each)

Second Prize

\$500/team + free access to all online presentations and papers

For every team member (\$200 value for each)

Third Prize

\$250/team + free access to all online plenary sessions

For every team member (\$50 value for each)

Honorable Mentions (Up to 10 Teams)

For every team member free access to all online keynote plenary sessions

First 50 qualifying submissions

For every team member free access to select plenary sessions

Veja mais em [COMPSAC](#)

Referências

● Fontes e recursos diversos sobre REA em português

- [Caderno REA](#)
- [Recursos Educacionais Abertos: práticas colaborativas e políticas públicas](#)
- [Iniciativa Educação Aberta](#)
- [EducaDigital](#)
- [UNIVESP](#)

● Fontes e recursos diversos sobre REA em inglês

- [UNESCO Recommendation on OER](#)
- [William and Flora Hewlett Foundation](#)

Referências

Todas as imagens, fotografias e recursos externos desta apresentação foram usados em seu formato original, sem qualquer alteração. Complementarmente, as seguintes fontes foram consultadas a fim de organizar este conteúdo:

- UNESCO, Recomendação sobre Recursos Educacionais Abertos (REA): <https://unesdoc.unesco.org/ark:/48223/pf0000373755/PDF/373755eng.pdf.multi.page=3>
- Hylén, J. Open Educational Resources: Opportunities and Challenges. <http://www.oecd.org/education/ceri/37351085.pdf>
- Salto para o Futuro: Recursos Educacionais Abertos: <https://vimeo.com/396687933>
- Slide 01: Rede Conectada: <https://pixabay.com/illustrations/network-connections-communication-3537400/>
- Todas as informações e imagens sobre as licenças Creative Commons foram retiradas do site: <https://creativecommons.org/about/cclicenses/>
- Relatórios da OECD (2006) <https://www.oecd.org/education/ceri/38654317.pdf> e 2015 <https://www.oecd.org/innovation/open-educational-resources-9789264247543-en.htm>

Dúvidas?

