

# Open educational resources

**using e-resources to support African scholarship**

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ICT Division, UKZN  
Durban  
October 2011**



# Learning@UKZN

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- Online learning management system
- Moodle open source software
- Copyrighted and open resources
- Repository for electronic resources – Learning Resources Repository (LRR)

# Mahara – open source e-portfolios

**Open source eportfolios**  
*(mah-hah-rah;verb): to think, thinking, thought*

**eportfolio**  
collect, reflect on and share your achievements and development online, in a space you control

**networking**  
create online communities and social network through Groups, Blogs and Forums

**open source**  
built on open source and open principles. Interoperate out of the box with Moodle

**download**  
Mahara 1.4 Try Demo  
Installation Instructions

Home About Community Demo Partners

Google Custom Search Search

**Welcome to Mahara**  
**23 May 2011: Please read the new Terms and Conditions.**  
You can find more information about these changes [here](#).

Mahara is an open source e-portfolio system with a flexible display framework. Mahara, meaning 'think' or 'thought' in Te Reo Māori, is user centred environment with a permissions framework that enables different views of an e-portfolio to be easily managed. Mahara also features a weblog, resume builder and social networking system, connecting users and creating online learner communities.

**Login**  
Username: \*  
Password: \*  
Login Register  
Lost Username/Password

**Mahara Book**

# Openness

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- Open source
  - software where the source code is available for modification
- Open standards
  - Specifications
  - De facto standards
- Open access
  - access to resources made available without fees or cost

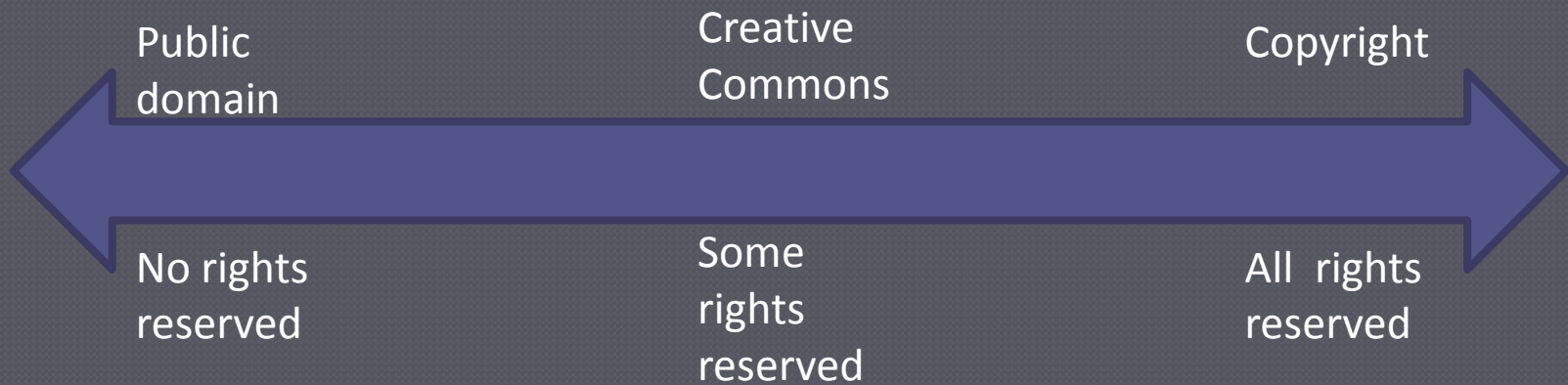
# Degrees of openness

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- Copyrighted resources (all rights reserved) which require permission for educational use
- Creative Commons Licenses
- Public Domain

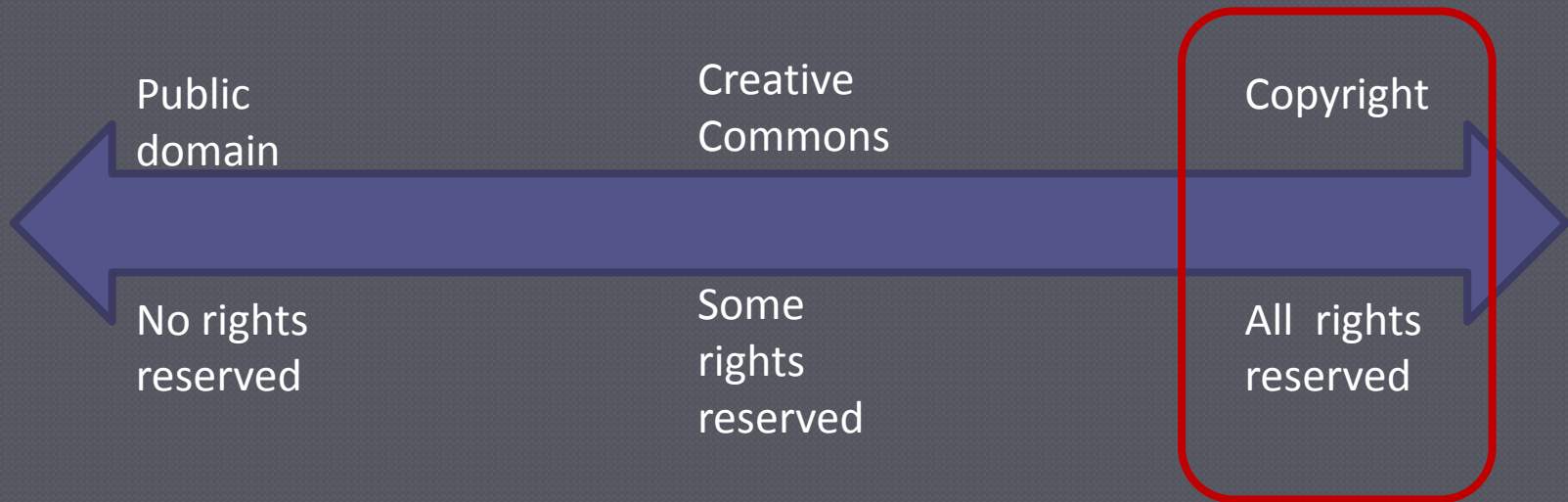
# Degrees of openness

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# Degrees of openness

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# South Africa: Copyright Act 98 of 1978 (as amended)

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Protects literary and artistic works



Copyright subsists in a work for **50 years** from the end of the year in which the work was made available.

Owen Dean, Handbook of South African Copyright Law



# Licences for use

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- South African Music Right Organisation (SAMRO)
- The Dramatic, Artistic and Literary Rights Organisation (DALRO)
  - Production of plays
  - Visuals for powerpoints
  - Chapters from books for distribution
  - Commercially produced music

# Online UKZN copyright application workflow

Browser window showing the UKZN Copyright Application workflow.

Address bar: <https://eresources.ukzn.ac.za/addapp.html>

Page Title: Copyright Application

Sign In

**UNIVERSITY OF KWAZULU-NATAL**  
**INYUVESI YAKWAZULU-NATALI**

[LOGOUT](#)

**COPYRIGHT APPLICATION**

**BIBLIOGRAPHIC DETAILS**

**Author/s :**

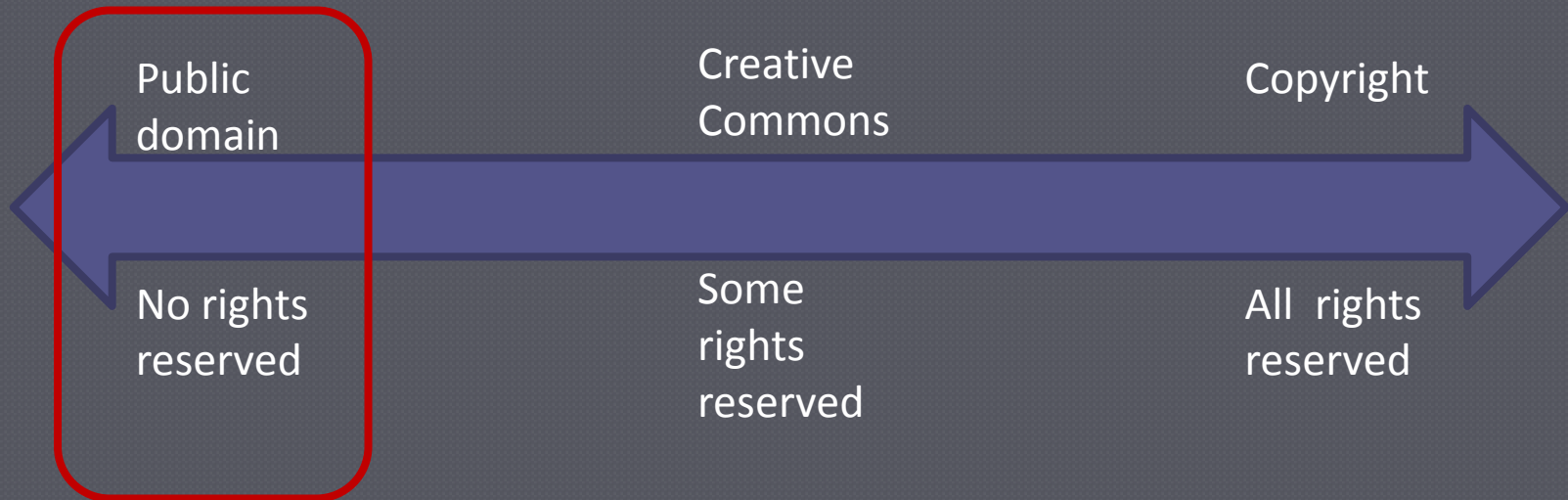
**Full Title of Book/Journal :**

**Type :**  **If periodical, provide vol. no and year :**

**Author and Title of Chapter/article to be copied:/web address : (for periodicals only)**

# Degrees of openness

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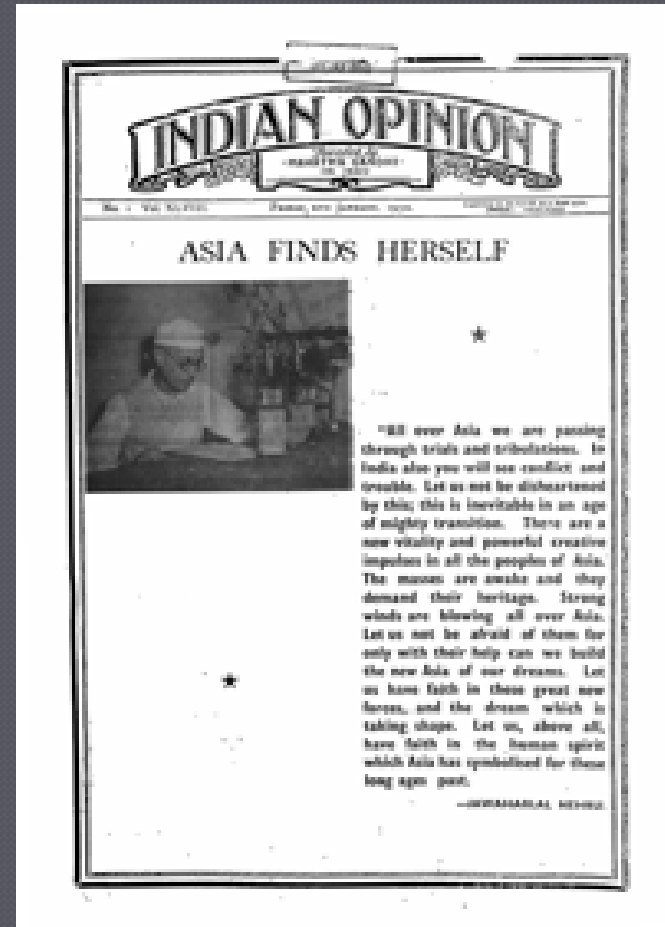


# Public Domain

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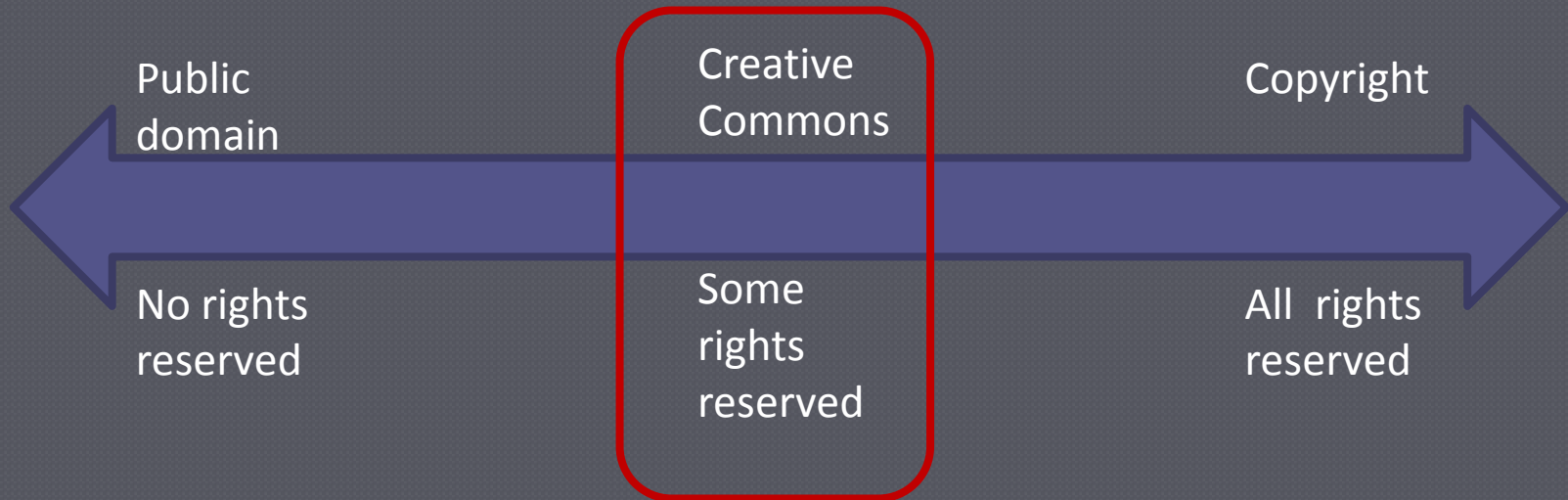
- No rights reserved
- Outside the Copyright Act No 98 of 1978
- Resources > 50 years

# Newspapers in the public domain



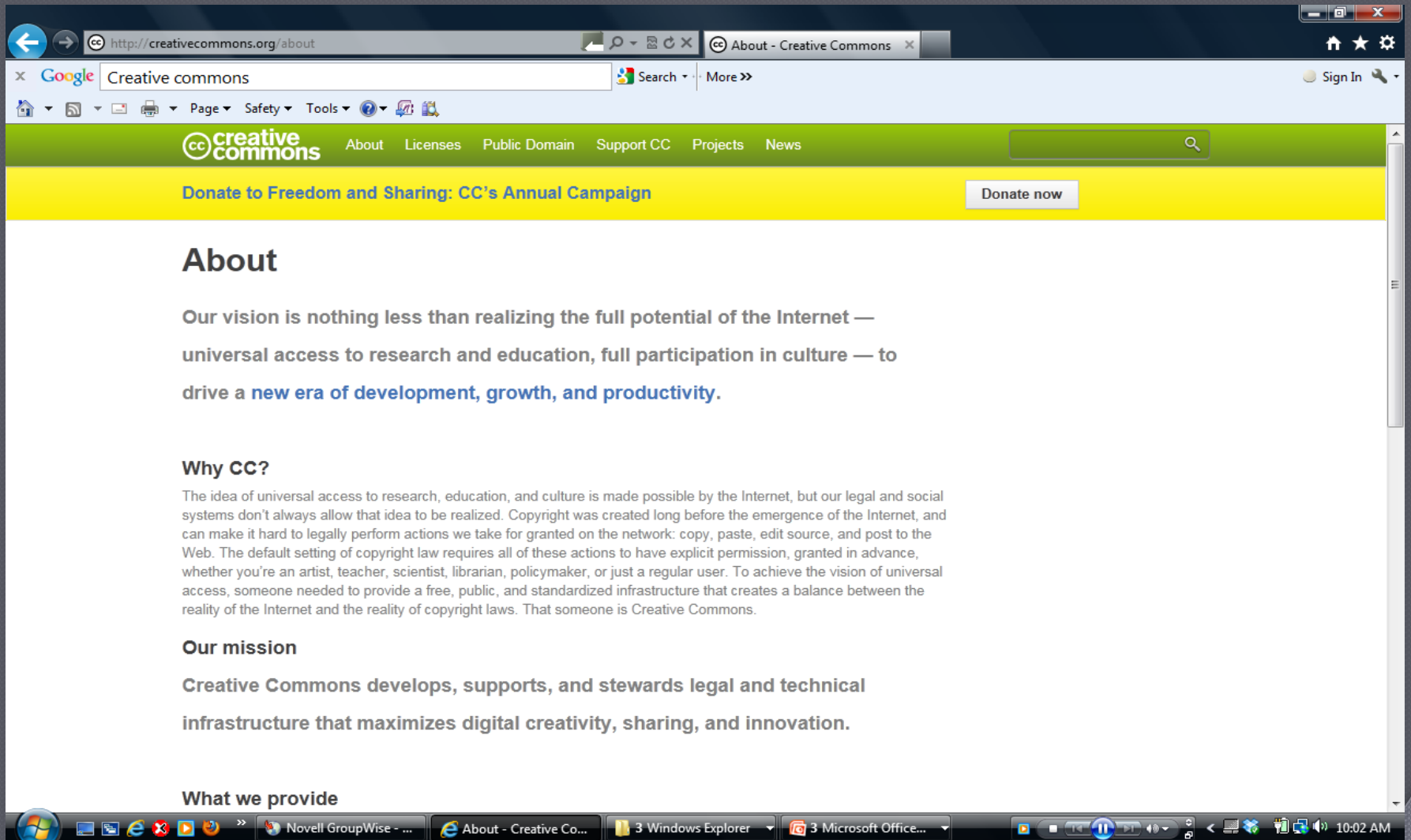
# Degrees of openness

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# Creative Commons

<http://creativecommons.org>



The screenshot shows a web browser window with the address bar displaying <http://creativecommons.org/about>. The browser's search bar contains the text "Creative commons". The website's header features the Creative Commons logo and navigation links: "About", "Licenses", "Public Domain", "Support CC", "Projects", and "News". A yellow banner below the header reads "Donate to Freedom and Sharing: CC's Annual Campaign" with a "Donate now" button. The main content area is titled "About" and contains the following text:

**About**

Our vision is nothing less than realizing the full potential of the Internet — universal access to research and education, full participation in culture — to drive a **new era of development, growth, and productivity.**

**Why CC?**

The idea of universal access to research, education, and culture is made possible by the Internet, but our legal and social systems don't always allow that idea to be realized. Copyright was created long before the emergence of the Internet, and can make it hard to legally perform actions we take for granted on the network: copy, paste, edit source, and post to the Web. The default setting of copyright law requires all of these actions to have explicit permission, granted in advance, whether you're an artist, teacher, scientist, librarian, policymaker, or just a regular user. To achieve the vision of universal access, someone needed to provide a free, public, and standardized infrastructure that creates a balance between the reality of the Internet and the reality of copyright laws. That someone is Creative Commons.

**Our mission**

Creative Commons develops, supports, and stewards legal and technical infrastructure that maximizes digital creativity, sharing, and innovation.

**What we provide**

The browser's taskbar at the bottom shows several open applications: Novell GroupWise, About - Creative Co..., 3 Windows Explorer, and 3 Microsoft Office... The system clock indicates the time is 10:02 AM.

# Creative Commons Licences

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- Retain copyright
  - Allow others to copy/distribute
  - Attribution/Credit
- License specifies
  - Use/re-use
  - Modify
- Options:
  - Public domain, Attribution,
  - Share-alike, non-commercial...
- Non-commercial purposes





## Attribution-NonCommercial-ShareAlike 2.0 South Africa

You are free:

- to copy, distribute, display, and perform the work
- to make derivative works

Under the following conditions:



**Attribution.** You must attribute the work in the manner specified by the author or licensor.



**Noncommercial.** You may not use this work for commercial purposes.



**Share Alike.** If you alter, transform, or build upon this work, you may distribute the resulting work only under a license identical to this one.

- For any reuse or distribution, you must make clear to others the license terms of this work.
  - Any of these conditions can be waived if you get permission from the copyright holder.
- Your fair use and other rights are in no way affected by the above.**

# Open access resources to support learning and teaching

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- Open journals
- Institutional repositories
- Conference proceedings
- Online newspapers



# African Journals online

Browser window showing the AJOL website (http://www.ajol.info/). The address bar displays the URL, and the search bar shows "African Journals online". The page features the AJOL logo, a banner for "OPEN ACCESS WEEK" (24 - 30 October 2011) with the tagline "LEARN. SHARE. ADVANCE.", and a featured journal cover titled "Journal of Modeling, Design and Management of Engineering Systems".

Featured Event: Open Access Week Featured Journal: Journal of Modeling, Design and Management of Engineering Systems

PROMOTING ACCESS TO AFRICAN RESEARCH

Quick site search...

Navigation menu: AJOL, BROWSE, ADVANCED SEARCH, AJOL NEWS, FAQ'S

Left sidebar:

- Username:
- Password:
- ☐ Remember me
- or [Register](#)
- [Browse Journals on AJOL](#)
- HOW TO USE AJOL...
  - [for Researchers](#)
  - [for Librarians](#)
  - [for Authors](#)
- OTHER RESOURCES...
  - [for Researchers](#)
  - [for Journals](#)
- [FAQ's](#)
- [AJOL jobs](#)
- [More about AJOL](#)
- [AJOL'S Partners](#)

Main content area:

Home > [Welcome To AJOL!](#)

## Welcome To AJOL!

**African Journals OnLine (AJOL) is the world's largest and pre-eminent collection of peer-reviewed, African-published scholarly journals.**

Historically, scholarly information has flowed from North to South and from West to East. It has also been difficult for African researchers to access the work of other African academics.

In partnership with hundreds of journals from all over the continent, AJOL works to change this, so that African-origin research output is available to Africans and to the rest of the world.

**AJOL is a Non-Profit Organisation based in South Africa.**

[More about AJOL and the challenges we work to address](#)

Use AJOL To:

Hosted By AJOL:

Journals: 414

Taskbar at the bottom shows various applications: Novell GroupWise, Internet Explorer, Music, Open access..., Microsoft PowerPoint, and system tray icons including volume and network status. The time is 09:20 AM.

# Open educational resources

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**Open educational resources (OER)** are digital materials that can be re-used for teaching, learning, research and more, made available for free through [open licenses](#), which allow uses of the materials that would not be easily permitted under [copyright](#) alone

Wikipedia

# Open educational resources

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Open educational resources is educational content shared under an open licence whether it is part of a course or not

- Digital resources
- Content creation and sharing
- Re-used for teaching, learning and research
- Made available for free using open licences
- Flexibility not provided by copyright licence



# OER Commons

<http://www.oercommons.org/>

Find Free-to-Use Teaching and Learning Content from Around the World

The screenshot shows the OER Commons website in a web browser. The browser's address bar displays <http://www.oercommons.org/>. The search bar contains the text "open educational resources". The website's header features the OER Commons logo, navigation links for "Register Now!", "Log In", "Feedback", "Help", and "Contribute Content", and a search bar with "Enter Search" text. Below the header, there are tabs for "Browse All", "OER Landscape", and "My Items". The main content area is divided into several sections: a large banner with the text "Learning is Sharing" and a background image of a teacher and students; a sidebar on the left with links for "Find Free-to-Use Teaching and Learning Content from Around the World", "OER Materials" (Subject Areas, Grade Levels), "Topics" (Green), "Browse by Provider", and "Sponsorship" (OER Commons is a project of ISKME); a "Recommended Resources" section with links for "Open Textbooks", "Career and Technical Education", "Classroom Management", "Science as Inquiry", "Art as Inquiry", and "Leadership in Education"; and a "New Bookmark Button" section with an "Add OER" button and instructions on how to use it. The bottom of the page shows a Windows taskbar with various open applications and the system clock displaying 10:17 AM.

Find Free-to-Use Teaching and Learning Content from Around the World

634 46

OER Commons  
OPEN EDUCATIONAL RESOURCES

Register Now! Log In Feedback Help Contribute Content

Browse All OER Landscape My Items

Enter Search Search Advanced Search

Learning is Sharing

Free to Use  
Openly Licensed  
32267 Resources  
From K-12 to College Courses

Browse Now

New Bookmark Button  
Add resources from any website!  
Add OER  
Right-click on this button to add to your favorites. When you find an OER resource on the web, click that link to submit.

OER Commons Tweets  
Design ed solutions w/  
#oer champions at



# JISC

Browser window showing the JISC Open Educational Resources (OER) page. The address bar displays the URL: <https://openeducationalresources.pbworks.com/w/page/24836860/What%20are%20OERs>. The search bar contains the text "open educational resources".

The page header includes the JISC logo and the text: "Release of these resources has been supported by the Higher Education Academy/JISC Open Educational Resources programme".

The main content area is titled "Open Educational Resources infoKit". It features a search bar labeled "Search this workspace" and a sidebar with navigation links: "Wiki" and "Pages & Files".

The main article is titled "What are Open Educational Resources". It is last edited by Lou McGill 3 months, 3 weeks ago. The article content includes a large image of dandelion seeds.

The sidebar contains a "Tags" section with the following tags: [OERs](#), [definition](#), [open movement](#), [open courseware](#), and [opencontent](#). There is also a "Check for plagiarism" button.

The sidebar also includes a "SideBar" section with an "Overview" section listing links: [What are Open Educational Resources?](#), [Why OER? Stakeholders and benefits](#), [Overviews and General Guidance](#), [Finding OERs](#), [OER Myths](#), and [Glossary](#). Below this is a "Management" section with links: [Management \(overview\)](#), [Approaches & Models](#), and [Quality considerations](#).

# Sharing and exchange

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- Music
- Video
- Photos
- Clip art
- E-books

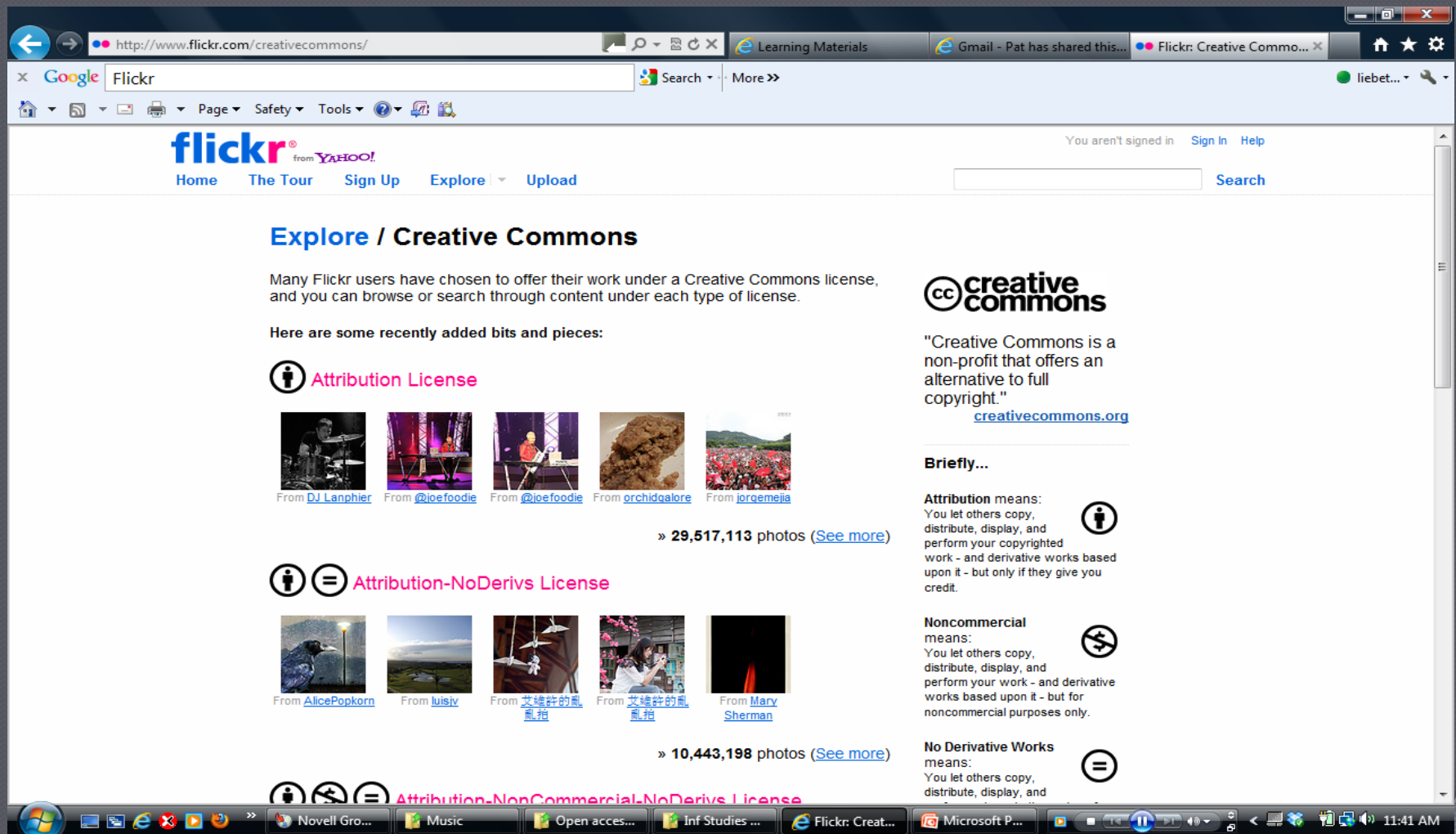


# Open educational tools

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- Blogs
- Wikis
- Graphic organisers
  - Freemind
- Social media tools

# Flickr



# Open CourseWare (OCW)

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- OCW refers to courses created by universities and shared freely with the world via the internet in a virtual learning environment
- MIT Open CourseWare – October 2002
- Uptake in China and Japan
- Other US Universities
- Peer-reviewed
- Revised
- Updated

# MIT – Massachusetts Institute of Technology

The screenshot shows a web browser window with the address bar displaying `http://ocw.mit.edu/index.htm`. The search bar contains the text "mit opencourseware". The browser's toolbar includes icons for home, back, forward, and search, along with a status bar showing "Page", "Safety", and "Tools".

The website's main banner features a satellite image of Earth with the text "Help millions reach their potential." and a button labeled "SUPPORT OCW >>". Below this, the MIT OpenCourseWare logo is displayed, along with a "SIGN UP FOR OCW NEWS" button and social media links for Twitter and Facebook.

The navigation menu includes links for Home, Courses, Donate, About OCW, Help, and Contact Us. A search bar is also present with the placeholder text "Enter search keyword".

The left sidebar contains a "Get Started with OCW" section with links to "VIEW ALL 2000 COURSES", "Most Visited Courses", "OCW Scholar", "Editor's Picks", "Audio/Video Courses", "Translated Courses", and "New Courses". Below this is a "Find Courses" section with checkboxes for "Architecture and Planning", "Engineering", and "Health Sciences and".

The main content area features a large image of a man (Larry Birenbaum) with the text "Unlocking Knowledge, Empowering Minds." and "Free lecture notes, exams, and videos from MIT. No registration required." A button labeled "> Learn more" is visible. To the right, a quote from Larry Birenbaum is displayed: "OpenCourseWare is exactly the kind of thing that universities should be doing." Below the quote, his name and affiliation are listed: "Larry Birenbaum, MIT Class of 1969 and OCW supporter, United States". A button labeled "> Read more" is also present.

At the bottom, a section titled "FEATURED COURSE" is partially visible, along with a "CELEBRATING" banner and the text "A DECADE OF OPEN SHARING".

The browser's address bar at the bottom shows the URL `http://ocw.mit.edu/donate/why-donate/`.

# MERLOT

Multimedia Educational Resource  
for Learning and Online Teaching

Browser window showing the URL: <http://www.merlot.org/merlot/materials.htm?sessionid=638C47CFC4B9DAE28E8F>

Search bar:  materials

Navigation links: Home, Communities, Learning Materials, Member Directory, My Profile, About Us



Search  materials

[advanced search materials](#) | [advanced search members](#) | [search other libraries](#)

- Home
- Communities
- Learning Materials
- Member Directory
- My Profile
- About Us

## Learning Materials

[Become a Member](#) | [Log In](#)

Browse Path: [All](#)

[Contribute A Material](#)

### Browse Material Hittist by Category

- [Academic Support Services \(2,481\)](#)
- [Arts \(1,403\)](#)
- [Business \(4,416\)](#)
- [Education \(3,890\)](#)
- [Humanities \(5,300\)](#)
- [Mathematics and Statistics \(2,522\)](#)
- [Science and Technology \(11,859\)](#)
- [Social Sciences \(3,619\)](#)
- [Workforce Development \(907\)](#)

### Material Types

- [Animation \(1,167\)](#)
- [Assignment \(668\)](#)
- [Assessment Tool \(88\)](#)
- [Case Study \(612\)](#)
- [Collection \(3,337\)](#)
- [Development Tool \(145\)](#)
- [Drill and Practice \(1,107\)](#)
- [ePortfolio \(16\)](#)
- [Learning Object Repository \(867\)](#)
- [Presentation \(2,923\)](#)
- [Online Course \(2,606\)](#)
- [Open Journal-Article \(545\)](#)
- [Open Textbook \(2,045\)](#)

New Search:  All categories  [Advanced Search](#)

Items 1 - 10 shown of 31,502 results

Sort by: Overall Rating

#### [DNA from the Beginning](#)

Author: Cold Spring Harbor Laboratory  
DNA from the Beginning is an animated tutorial on DNA, genes and heredity. The science behind each...  
Type: Simulation  
Date Added: Apr 11, 2000  
Date Modified: Oct 23, 2011



[Peer Review \(1\)](#) ★★★★★  
[Comments \(34\)](#) avg: ★★★★★  
[Personal Collections \(308\)](#)  
[Learning Exercises \(9\)](#)

#### [WebQuest Page](#)

Author: Bernie Dodge  
Bernie Dodge of San Diego State University developed the idea of WebQuests to teach students how to...  
Type: Reference Material  
Date Added: Aug 25, 2000  
Date Modified: Oct 20, 2011



[Peer Review \(1\)](#) ★★★★★  
[Comments \(19\)](#) avg: ★★★★★  
[Personal Collections \(216\)](#)  
[Learning Exercises \(1\)](#)

#### [Ojala que llueva cafe](#)

Author: Barbara Kuczun Nelson  
A guided-reading selection in Spanish based on a song by Dominican artist Juan Luis Guerra, optional...  
Type: Tutorial  
Date Added: Mar 02, 2001  
Date Modified: Oct 17, 2011



[Peer Review \(1\)](#) ★★★★★  
[Comments \(16\)](#) avg: ★★★★★  
[Personal Collections \(118\)](#)  
Learning Exercises (none)

#### [Mathematical Visualization Toolkit](#)



[Peer Review \(1\)](#) ★★★★★




# Content updated, and versioned

EECE253\_01\_Intro.pdf - Adobe Acrobat Pro

File Edit View Document Comments Forms Tools Advanced Window Help

Create Combine Collaborate Secure Sign Forms Multimedia Comment

17 / 81 52.1% Find

 EECE/CS 253 Image Processing  
Vanderbilt University School of Engineering

## Color Processing

requires some knowledge of how we see colors

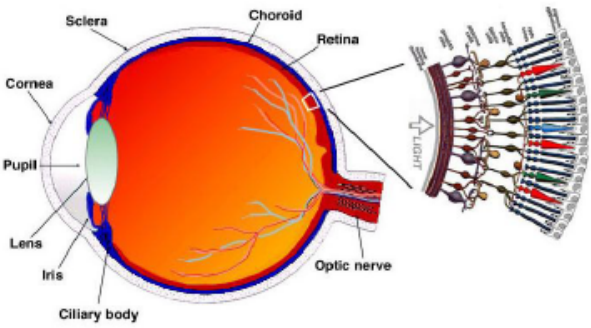


Fig. 1.1. A drawing of a section through the human eye with a schematic enlargement of the retina.

25 August 2011 © 1999-2011 by Richard Alan Peters II 17

# Local OER

[http://opencontent.uct.ac.za/Law/Access-to-Knowledge-in-Africa-The-Role-of-C](#)
[OCW Consortium - Availa...](#)
[Access to Knowledge i...](#)
[aca2k.org](#)

[Google](#)
[Search](#)
[More >>](#)

[Page](#)
[Safety](#)
[Tools](#)



# UCT OpenContent

Sharing online resources for teaching and learning • Deelbare onderrig en leerbronne • Ukwabelana ngezixhobo zokufundisa nokufunda

[Contribute](#)
[Feedback](#)
[Help](#)
[Login](#)

[Home](#) » [Law](#) » [Access to Knowledge in Africa: The Role of Copyright](#)

## Recent posts



**The Human Rights Key**  
Veronica Mitchell



**Chemical Industries Resource Pack**  
UCT Chemical Engineering Schools Project



**Media Sexual and Reproductive Health Taboos in the Middle East and North Africa (MENA)**  
Dr. Ibrahim Saleh



**WikiLeaks in MENA:**  
Dr. Ibrahim Saleh



**Handbook on Citation**  
Karin de Jager and Dianne Steele

## Access to Knowledge in Africa: The Role of Copyright

by Armstrong, de Beer, Kawooya, Prabhala, Schonwetter  
Added by [TOBIAS SCHONWETTER](#) on 21 Sep 2010  
Funded by IDRC

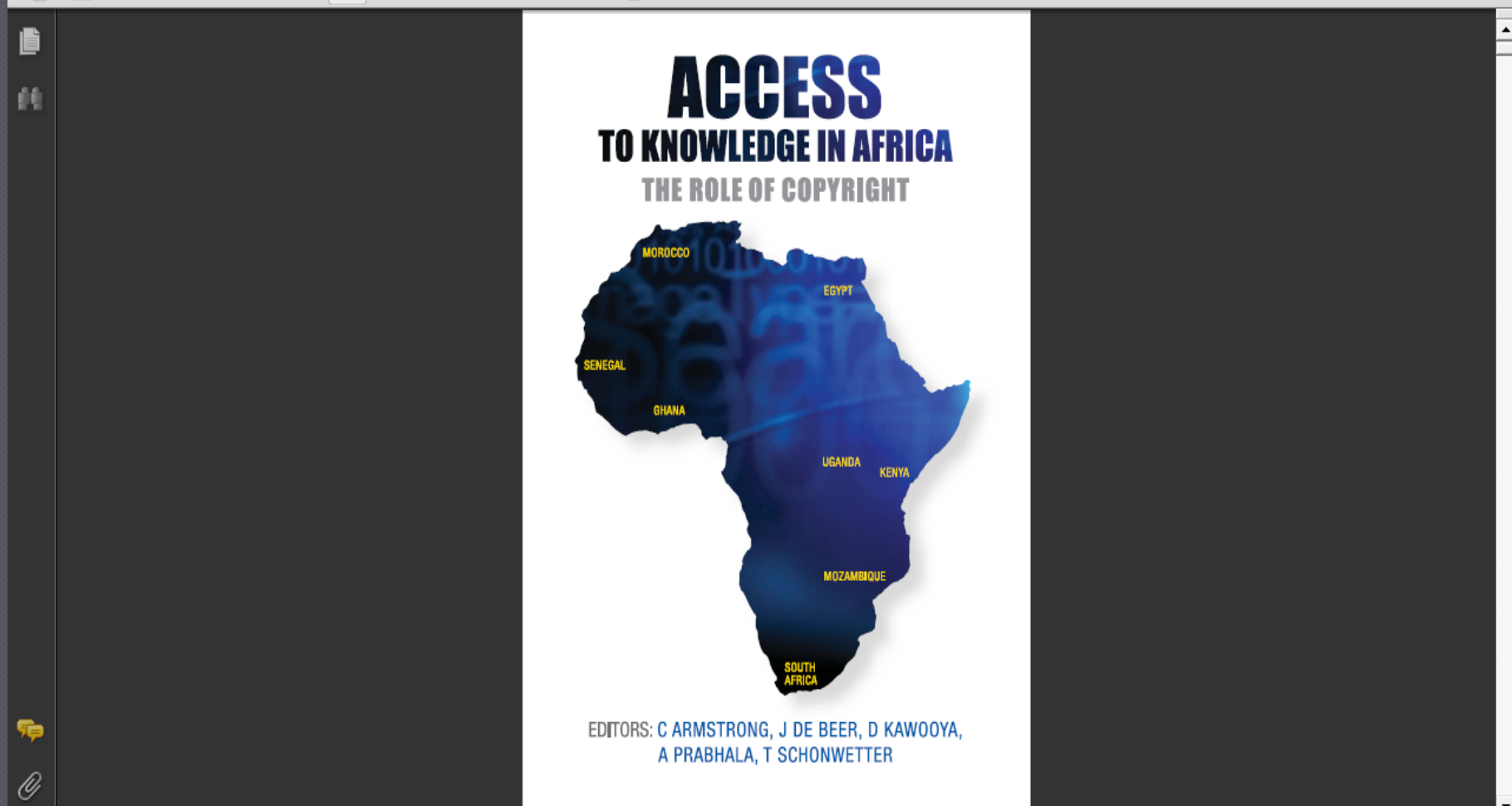
**This book will help educators identifying challenges for learning materials access posed by copyright laws in Africa. Some solutions as to how to overcome these challenges are provided.**

[Go to Access to Knowledge in Africa: The Role of Copyright](#)

The emergence of the Internet and the digital world has changed the way people access, produce and share information and knowledge. Yet people in Africa face challenges in accessing scholarly publications, journals and learning materials in general. At the heart of these challenges, and solutions to them, is copyright, the branch of intellectual property rights that covers written and related works.

This book gives the reader an understanding of the legal and practical issues posed by copyright for access to learning materials in Africa, and identifies the relevant lesson, best policies and best practices that would broaden and deepen this access. This book is based on the work of the African Copyright and Access to Knowledge (ACA2K) research network, launched in late 2007 as a network of researchers committed to probing the relationship between copyright and learning materials access in eight African countries: Egypt, Ghana, Kenya, Morocco, Mozambique, Senegal, South Africa and Uganda.







# OER Africa supporting African scholarship

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- “.... any educational resources openly available for educators and students, without an accompanying need to pay royalties or licence fees....” OER Africa website
  
- UKZN
  - Course materials
  - Streaming videos
  - Podcasts
  - Music

# Open Educational Resources (OER) for Africa

← → http://www.oerafrica.org/ Learning@UKZN OER Africa

Google open educational resources repositories Search More >> Sign In

Page Safety Tools



OER Africa  
Building African education capacity through openness

search

HOME BLOGS FORUMS NEWS EVENTS SIGN IN JOIN

UNDERSTANDING OER FINDING OER OER IN ACTION USING TECHNOLOGY ABOUT OER AFRICA




Open Educational Resources  
for African Academics

OER Africa provides you access to all the information you will need to [learn about and benefit from Open Educational Resources \(OER\)](#). If you are just discovering OER, we provide an excellent starting point for finding OER, learning about the benefits of sharing. You can view and download learning materials from our [collection of resources](#). We also provide links to several other repositories.

### OER Themes

OER Africa currently focuses on the supporting and developing OER in these thematic areas: [Agriculture OER](#), [Health OER](#), [Foundation OER](#) and [Teacher Education OER](#). To find out more about each thematic area, how to participate and view/download resources click on links below.

 Agriculture OER

 African Health OER Network

 Foundation OER

 Teacher Education

### TEACHER EDUCATION OER IN AFRICA

As part of the DETA conference this year, Saide and the TESSA programme will be facilitating a pre-conference workshop: "Getting real about OER for African Teacher Education" from 2-3 August 2011

[READ MORE](#)

### Latest Updates

9/22/2011  
[Insights from the Health OER Inter-Institutional Project, by Ken Harley](#)  
9/22/2011  
[OER Webinar Series](#)  
9/19/2011  
[Open Source Drug Discovery for Malaria](#)  
9/14/2011  
[Nature Publishing Group launches Scientific Reports](#)

[All](#) 

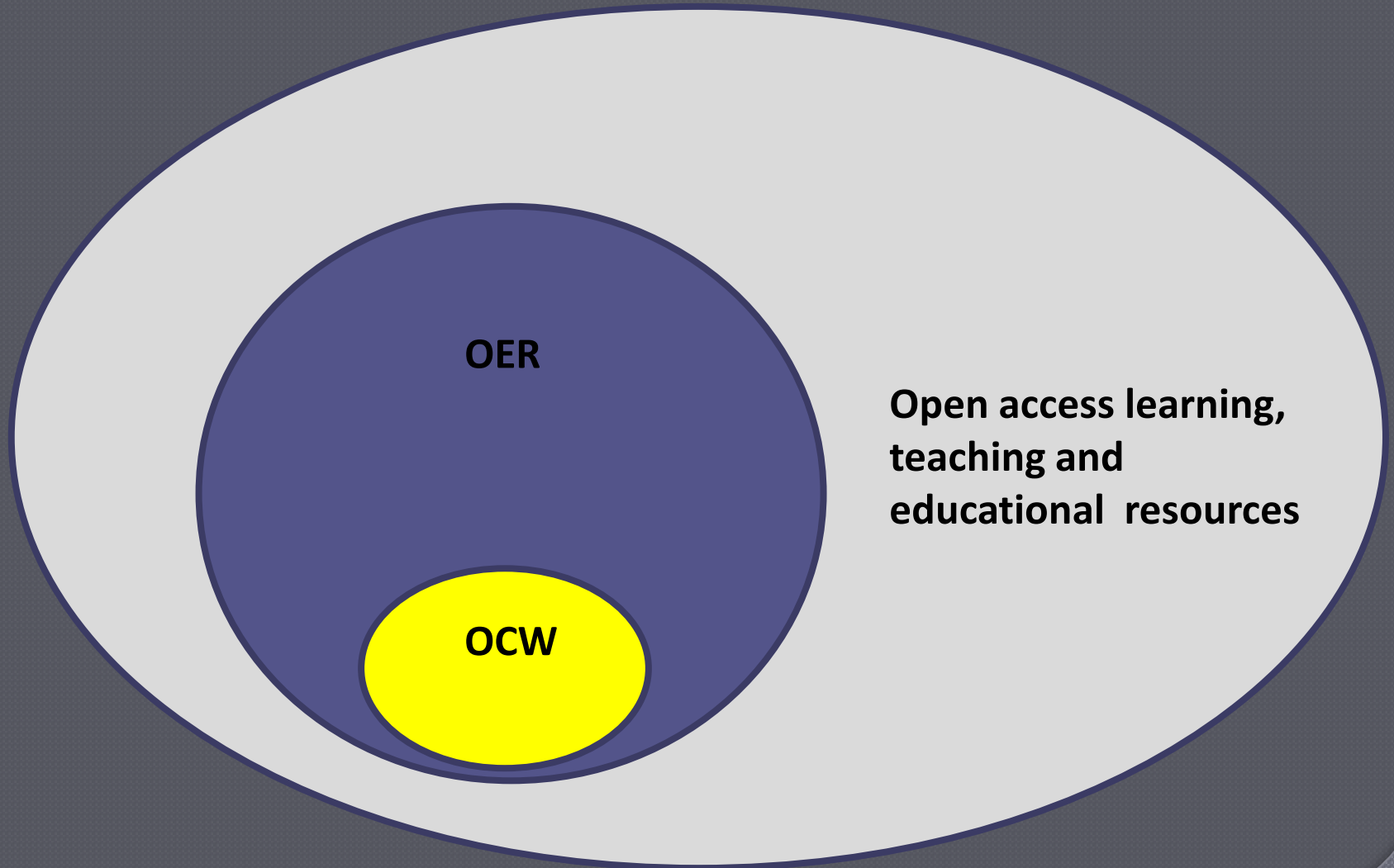
### Featured Publication

 The Commonwealth of Learning has recently released a [Basic Guide to Open Educational](#)

http://www.oerafrica.org/aboutoer

# Open access, OER and OCW

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# Why use OER

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- Re-use
  - Re-mix
  - Re-create
- 
- Facilitates democratisation of knowledge
  - Changes in education
  - Foster innovation
  - Supports open education
  - Global environment – harvest globally, grow locally

# Challenges

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- Validity
  - Reliability
  - Currentness
  - Suitability
  - Usability
- 
- Calls for discernment
  - Appraisal
- 
- Lack of strong evidence on the benefits
  - Can track downloads etc
  - Difficult to assess their impact

# User advocacy

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- Engage academic community
- Create awareness
  - Global *open access week* 24-30 October 2011
- Training
- User support



# Conclusions

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- Teaching and Learning support in new areas of academic enterprise:
- Changing the way course content is created
- Using open licensed materials
- Add CC licences to your own course material
- Make them available as OER