



**Open Educational Resources**

# Outline

- Definition and related terms.
- Classification of educational resources.
- History of the Open Educational Resources.
- Characteristics and types.
- Wikimedia projects and OERs.

# Key terms box

Open Educational  
Resources

Free Educational  
Resources

E-learning

Learning object

Open content

## Definition of related terms

**Open content** is any creative work that anyone can copy or modify for further reuse.

**Learning object** is a collection of content items, practice items, and assessment items that are combined based on a single learning objective.

**E-learning** is a form of education, learning and teaching that is supported by the use of electronic devices.

# Definition of Open Educational Resources

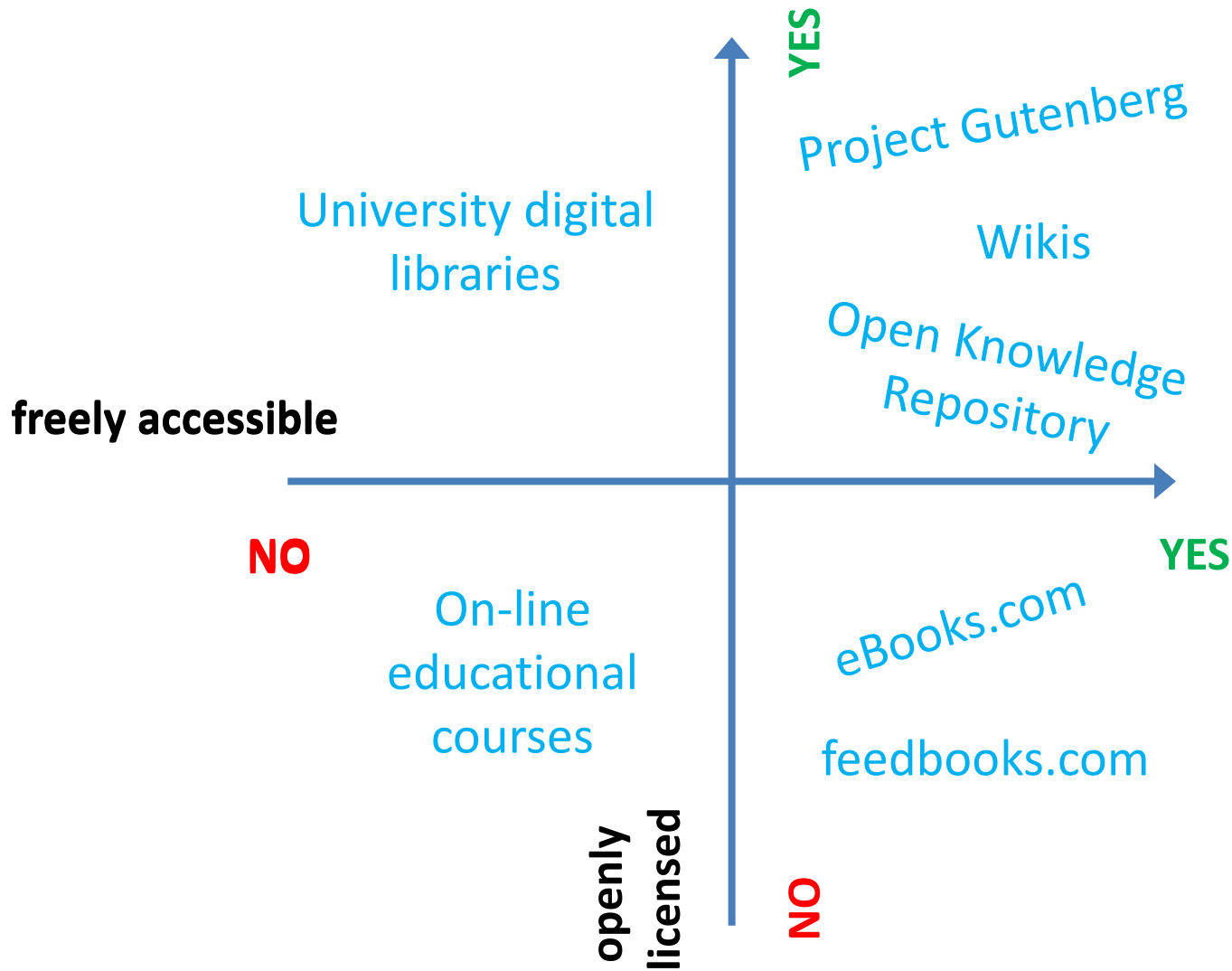
**Open Educational Resources = Free Educational Resources**

**Open Educational Resources (OERs) or Free Educational Resources** are a freely accessible and openly licensed content that is useful for educational, teaching and learning purposes.

***OERs = f(open content; learning objects)***

Open Educational Resources are essential part of E-learning.

# Classification of educational resources



# History of the Open Educational Resources

The term **learning object** was introduced in 1994 by Wayne Hodgins and quickly popularised the idea of creating digital content for educational purposes.

The **OER movement** originated from development in open knowledge, open source, free sharing and peer collaboration.

The term **Open Educational Resources** was first adopted and defined at UNESCO's 2002 Forum on the Impact of Open Courseware for Higher Education in Developing Countries.

# Characteristics and types

The most common characteristics attributed to the OERs are the following:

- freely accessible content;
- openly licensed content;
- no monetary value is paid;
- public and collective good.

Types of OERs:

- open textbooks, streaming videos, software, course materials, tests, etc.



# Wikimedia projects and OERs

Wikimedia projects are fine example of repositories for OERs.

The most commonly used Wikimedia projects in the sense of OERs are:

- Wikipedia – a free encyclopedia;
- Wikimedia Commons – a free repository of media files;
- Wikibooks – a free repository of textbooks and manuals;
- Wikisource – a free content library;
- Wikiversity – a project offering free materials and courses.

# Examples from Wikimedia projects

## Wikibooks



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### Cookbook:Paella Roja

[Cookbook](#) | [Ingredients](#) | [Recipes](#) | [Cuisine of Spain](#) | [Rice Recipes](#)

Paella is a Spanish-cuisine rice dish that derives its name from the utensil used to prepare it, a *paellera*—a flat round pan with two handles. *Paella roja* is a classic version of mixed paella in Spain (not including the Valencian region). Paella aficionados refer to it as **mixed** because it combines meat from land animals with seafood. The recipe below is based on the one displayed on [Spain-recipes.com](#)<sup>[1]</sup> but with more ingredients.

This lightly seasoned dish takes its name from sweet-roasted, red bell peppers and tomatoes. A chicken and seafood broth enhances this paella's flavors as well.

*Paella roja* requires some time to prepare but it's well worth the effort.

| Contents <sup>[hide]</sup>    |
|-------------------------------|
| 1 Cleaning and eating mussels |
| 2 Equipment                   |
| 3 Recipe                      |
| 3.1 Ingredients               |
| 3.1.1 Broth                   |
| 3.1.2 Paella                  |
| 3.2 Procedure                 |



**Paella Roja**  
 Category: Spanish recipe  
 Servings: 6  
 Time: 3 hours approx.  
 Difficulty: ● ● ● ●

## Wikisource



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### Der er et yndigt land


**Der er et yndigt land**  
 by *Adam Oehlenschläger*

*Der er et Yndigt Land (There is a Lovely Land) is the (civil) national anthem of Denmark. If the royal family is present, the royal anthem, Kong Christian stod ved højen mast, is used. In its common use only the first stanza and the three last verses of the fourth are used. Even if all four stanzas are sung, the first half of the fourth is practically always omitted. The third and sixth verses of each stanza are repeated once.*

— Excerpted from [Der er et yndigt land](#) on Wikipedia, the free online encyclopedia.

| Original language  | Literal translation  | Free metrical translation  |
|--|--|--|
| 1. Der er et yndigt land,<br>det står med brede bøge<br>nær salten østerstrand<br>Det bugter sig i bakke, dal,<br>det hedder gamle Danmark<br>og det er Frejas sal | 1. There is a lovely country<br>it stands with broad beeches<br>near the salty eastern beach<br>It winds itself in hill, valley,<br>it is called old Denmark<br>and it is Freja's hall | 1. There is a lovely land<br>with spreading, shady beeches<br>Near Baltic's salty strand<br>its hills and valleys gently fall,<br>its ancient name is Denmark,<br>And it is Freya's hall |

## Wikipedia



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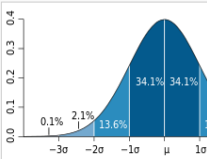
### Standard deviation

From Wikipedia, the free encyclopedia

*For other uses, see [Standard Deviation \(disambiguation\)](#).*


In statistics and probability theory, **standard deviation** (represented by the symbol sigma,  $\sigma$ ) shows how much variation or "dispersion" exists from the average (mean, or expected value). A low standard deviation indicates that the data points tend to be very close to the mean; high standard deviation indicates that the data points are spread out over a large range of values.

The standard deviation of a random variable, [statistical population](#), data set, or [probability distribution](#) is the square root of its [variance](#). It is algebraically simpler though practically less [robust](#) than the [average absolute deviation](#).<sup>[1][2]</sup> A useful property of standard deviation is that, unlike variance, it is expressed in the same units as the data. Note, however, that for measurements with [percentage](#) as unit, the standard deviation will have [percentage points](#) as unit.



A plot of a normal distribution (or bell-shaped) each band has a width of 1 standard deviation 99.7 rule


## Wikiversity



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### Topic:German

Welcome to the German department!  
 This department consists of two parts:



**LEARNING GERMAN**  
 for everybody interested in the German language  
 Learning German

and



**GERMAN PHILOLOG**  
 for discussing German literature - in English

Faleminderit për vëmendjen!

İlginiz için teşekkür ederim!

Grazie per l'attenzione!

Thank you for your attention!

Danke für ihre Aufmerksamkeit!

Хвала на пажњи!

Благодарам на вниманието!

Merci de votre attention!

Ευχαριστώ για την προσοχή σας!

Спасибо за внимание!