

- Skills for the European
- Open Science
- Commons

## Accessibility

WP2 T3

Supporting

eosc



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the European Union



UK Research  
and Innovation



# Learning Objectives



Facilitate access to the learning content

Validate accessibility of the learning materials

# Agenda



# Accessible learning materials

- Designed or later enhanced to be usable across the **widest range of learner variability**
  - directly used without assistive technology
  - made usable with **assistive technology**
- examples
  - Cultural background
  - Native language
  - Learning styles
  - Physical impairments



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# General Guidelines

- How does this reflect on
  - writing MD content
  - preparing a slide deck

present the information in multiple ways and formats

use simple language

- option to provide additional resources

use headings

use table of content

provide alternative text for images

use equation editors for math expressions

use a high contrast colour palette

don't use colour as the only way to convey information

use descriptive links

use tables only when required

provide closed captions and transcripts

# Standards

- W3C Web Content Accessibility Guidelines international standard
  - WCAG 2.1 (2.2)
    - 4 principles: perceivable, operable, understandable, and robust.
    - defined success criteria that can be tested
    - three levels: A (low), AA (mid) and AAA (high)
    - Compliance = 100% success
- PDF/Universal Accessibility (UA)
  - ISO 14289
  - enable people independently access all information provided in a PDF document
  - complementary to the WCAG 2 success criteria

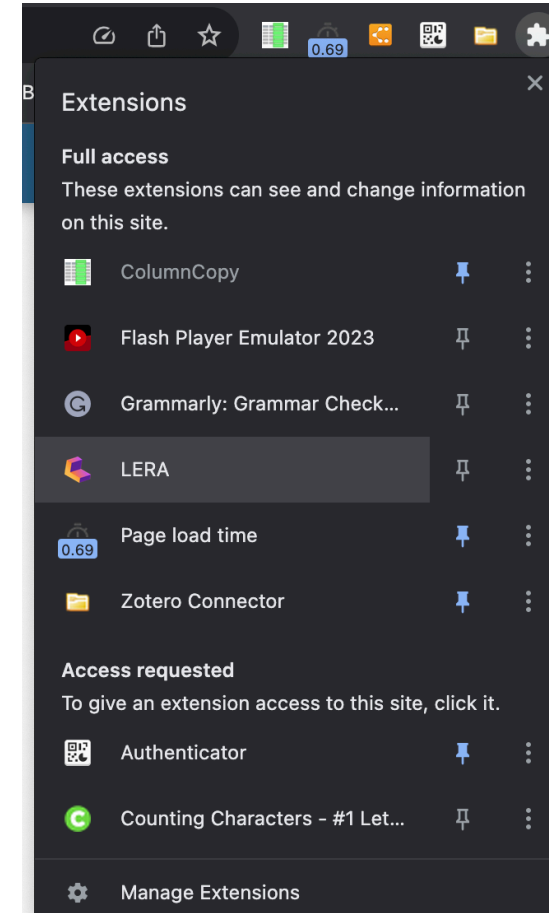


# Tools

- Checking for accessibility of all generated learning content for learners is **required**
  - Aiming for WCAG 2.1(2.2) AA conformance
- [Web Accessibility Evaluation Tools List generated by W3C](#)
  - Includes country guidelines filtering
- **Accessibility evaluation tools are not almighty!**

# LERA

- free browser plugin for Chrome
- Available on chrome webstore
  - [direct link to install LERA](#)





# Checking accessibility with LERA

Check the accessibility  
of the NASA Transform  
to Open Science web  
site using LERA

# Power Point Accessibility

- Built-in Accessibility Checker Tool
  - Review -> Check Accessibility

every slide should have a meaningful title

include alternative text for all visuals

slide content should be read in the intended order

descriptive hyperlink text should be used

color should not be the only way of conveying information

sufficient contrast should be used for text and background color

tables should be avoided, or at least be simple with headers

font size should be min 18pts

sans serif fonts should be used

integrated videos should be accessible

export the presentation in an accessible format

# Using the Accessibility Checker Tool

Check the accessibility of the Power Point presentation on Open Science available on OSF: [Intro to Open Science - Panelist Slides for upload 3.3.18 at noon](#) taken from [Introduction to Open Science: Nuts & Bolts of Getting Started](#) uploaded by [Elizabeth Gilbert](#)

# PDF/UA

- Best way to ensure PDF accessibility is to use **Acrobat Pro**
  - integrated accessibility checker
- Free option is the [axesCheck online tool](#)
  - upload a PDF file
  - get a report on the compliance with PDF/UA and WCAG

# Moodle – Skills4EOSC Learning Platform

E-mail : learning-support@skills4eosc.eu

Home Dashboard My courses

FAIRmeth > Training Topics:Day 1: Welcome => FAIR Skills f... Settings

TEXT AND MEDIA AREA

**Training Topics:Day 1: Welcome => FAIR Skills f...**

Course Settings More

Updating Text and media area in General Information?

Expand all

General

Text

Training Topics:

- Day 1: Welcome => FAIR Skills for Instructional Designers => FAIR Learning Objects => Discovering learning materials
- Day 2: Conceptualization => Structure => LU Development => Instructor Kit => Content Design => Design Tools => Accessibility => Formats => Metadata => Internal Quality Assurance
- Day 3: Depositing => Versioning => Feedback gathering => FAIR verification

Common module settings

Restrict access

Activity completion

# Alternative text

- [Alternative text guide by WebAIM](#)
  - should be accurate and equivalent in representing content and function
  - should be concise
  - do not make it redundant
  - do not include phrases such as "image of ..." or "graphic of ..."
- Decorative image = blank alternative text
  - does not present important content
  - is used for layout or non-informative purposes
  - does not have a function (e.g. is not a link)



# Accessibility Statement

- [Developing an Accessibility Statement – Guide by W3C WAI](#)
- [Example of Complete Accessibility Statement](#)
- We are following a best effort approach

mission

measures to support accessibility

conformance status

feedback gathering

compatibility

technical specification

limitations and alternatives

assessment approach

evaluation report and statement

complaints response

# Summary

Check and ensure accessibility as much as possible

Use available tools and best practices

Adhere to standards such as the WCAG

- follow the recommendations and rules defined on the country level

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Supporting



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# Thank you!

## Any questions before we continue?

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