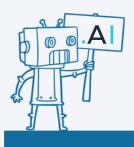


## Accessibility and WCAG Compliance in Higher Education

WCAG AI - artificial intelligence in document accessibility



## What is WCAG?

Web Content Accessibility Guidelines

WCAG is an international standard, providing guidelines for making web content accessible for people with disabilities.

- perceivable: provide text alternatives for non-text content, make it easier for users to see and hear content
- operable: make all functionality available from a keyboard, help users navigate and find content

es

- understandable: make text readable and understandable
- robust: maximize compatibility with current and future user tools

### Accessible Web content: is it only HTML?

Websites are usually not limited to HTML-based web pages. Especially in the case of digital repositories the user usually interacts with documents, which are potentially:

- very large in number (e.g. multiple thousands of documents in a library or a digital repository)
- very diverse in structure and format (e.g. books, theses, scientific papers, reports, official documents)
- very large in terms of size (e.g. books, containing several hundred pages)





### Accessibility of documents is a more difficult task than accessibility of web pages

### Web pages

- are usually generated from templates, which may be made accessible just once
- are usually authored by a limited number of actors
- are controlled by the owning organization

#### Documents

- differ significantly in their structure and are not produced from a single template
- are usually authored by a large number of actors
- may either by acquired from the inside or outside of the organization

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# Motivation: the case of Polish Platform of Medical Research



Dołączyli do nas







### Accessibility of a repository containing 380k+ documents

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### Manual work? Not a viable solution











### WCAG AI

Artificial Intelligence in the task of making documents accessible

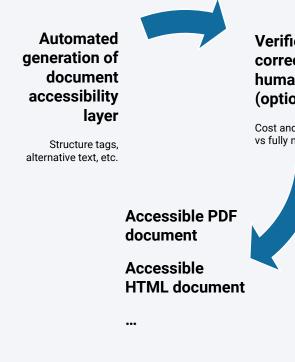
The results of a research project, co-financed by the European Union from the European Regional Development Fund under the Intelligent Development Operational Program.

The aim is to use AI models for (among others):

- automated annotation of document structure,
- automated generation of alternative text for non-text objects,
- disambiguating abbreviations,
- ✤ automatic annotation of foreign text.



### WCAG AI process



Verification and correction by a human expert (optional)

Cost and time reduction vs fully manual work









### **Questions and contact information**

Thank you for your attention!

**Questions?** 

Please contact:

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