Advanced Decision Support Tools for Scalable Web Accessibility Assessments

Results

Project Information

WAI-Tools
Grant agreement ID: 780057

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INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

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€ 2 244 493,75

EU contribution
€ 1 999 812,00

Coordinated by
GEIE ERCIM
France

EC signature date
25 October 2017

Start date
1 November 2017

End date
31 January 2021

Deliverables

Demonstrators, pilots, prototypes (2)

Working Instance of Difi Observatory
Report and documentation describing the setup, functionality and other operational aspects of the Difi observatory.
Working Instance of AMA Observatory

Report and source code describing the setup, functionality and other operational aspects of the AMA observatory.

Other (13)

Prototype Large-Scale Data Browser

Source code and documentation of a prototype tool based on the use cases and scenarios researched in D3.4

Phase 2 Test Rules Development

Development of 10 fully-automated, 10 semi-automated, and 5 manual test rules according to the W3C standard ACT Rules Format, where possible building on existing public repositories.

Implementation of Open Format

Implementation of the open format as an output option of the SI and DQ engine.

Open Format for Accessibility Test Data

Open format for accessibility test data based on existing metadata definitions, such as Evaluation and Report Language (EARL) and Test Case Description Language (TCDL).

Phase 1 Test Rules Development

Development of 15 fully-automated, 10 semi-automated, and 5 manual test rules according to the W3C standard ACT Rules Format, where possible building on existing public repositories.

Phase 2 Test Rules Implementation

Implementation of the available Phase 2 fully- and semi-automated test rules, as applicable, in the SI and DQ engines.

Updated WCAG-EM Report Tool

Source code and documentation of the WCAG-EM Report Tool with extended functionality to important accessibility results from fully- and semi-automated testing using the open format, to complement manual testing.

Phase 3 Test Rules Development

Development of 5 fully-automated, 5 semi-automated, and 5 manual test rules according to the W3C standard ACT Rules Format, where possible building on existing public repositories.
Requirements Analysis for Data Browser

Documentation of use cases and scenarios of a prototype tool that can browse large amounts of open data from observatories and evaluation reports using the open format.

Phase 3 Test Rules Implementation

Implementation of the available Phase 3 fully- and semi-automated test rules, as applicable, in the SI and DQ engines.

Model Accessibility Statement

Model accessibility statement for websites, based on the guidance from WCAG 2.0 and WCAG-EM, through the consensus process of the W3C/WAI Education and Outreach Working Group (EOWG).

Phase 1 Test Rules Implementation

Implementation of the available Phase 1 fully- and semi-automated test rules, as applicable, in the SI and DQ engines.

Accessibility Statement Generator

Source code and documentation of a tool for manually generating accessibility statements, based on the model statement developed by EOWG.

Documents, reports (4)

Phase 3 Test Rules Validation

Report on the outcome of running the available Phase 3 test rules on the selected sample of websites.

Report on Website Selection Process

Report on the selection process for a sample of websites with current evaluation reports as content for cross-review.

Phase 1 Test Rules Validation

Report on the outcome of running the available Phase 1 test rules on the selected sample of websites.

Phase 2 Test Rules Validation

Report on the outcome of running the available Phase 2 test rules on the selected sample of websites.

Open Research Data Pilot (1)
Data Management Plan

This deliverable describes the data management life cycle for the data collected, processed and / or generated by WAI-Tools.

Publications

Conference proceedings (5)

Analysis of automated contrast checking tools

Author(s): Rafael Almeida, Carlos Duarte
Publisher: ACM DL
DOI: 10.1145/3371300.3383348

Comparing accessibility evaluation plug-ins

Author(s): Tânia Frazão, Carlos Duarte
Published in: Proceedings of the 17th International Web for All Conference, 2020, Page(s) 1-11, ISBN 9781450370561
Publisher: ACM
DOI: 10.1145/3371300.3383346

Semantic Content Analysis Supporting Web Accessibility Evaluation

Author(s): Carlos Duarte, Inês Matos, Luís Carriço
Published in: Proceedings of the Internet of Accessible Things on - W4A '18, 2018, Page(s) 1-4, ISBN 9781450356510
Publisher: ACM Press
DOI: 10.1145/3192714.3196828

Artificial Intelligence (AI) for Web Accessibility - Is Conformance Evaluation a Way Forward?

Author(s): Shadi Abou-Zahra, Judy Brewer, Michael Cooper
Published in: Proceedings of the Internet of Accessible Things on - W4A '18, 2018, Page(s) 1-4, ISBN 9781450356510
Publisher: ACM Press
DOI: 10.1145/3192714.3192834

Combining Semantic Tools for Automatic Evaluation of Alternative Texts

Author(s): Carlos M. Duarte, Luís Carriço