Advanced Decision Support Tools for Scalable Web Accessibility Assessments

Results

Project Information

**WAI-Tools**
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10.3030/780057

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€ 2 244 493.75

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€ 1 999 812

Coordinated by
GEIE ERCIM
France

**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.
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 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
Publisher: ACM Press
DOI: 10.1145/3315002.3317558