MONASH University

MONASH INFORMATION TECHNOLOGY

HUMANISE

EVALUATING WEB USE CHALLENGES WITH BROWSER-BASED AR APPROACHES

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At a glance

Background

Software engineers often differ from end users, especially those facing accessibility barriers around sight, hearing, cognitive, mobility, age and language, among many others.

Goal

Help developers understand and design for accessibility challenges through AR browser-based plug-ins.

Strategies

- Review work on creating AR browser-based plug-ins.
- Summarise and evaluate popular choices like Funkify.
- Survey developers on their requirements and use of the tools.

Outcomes

Accessibility challenges and approaches

Common issues identified in the survey included addressing the needs of sight, hearing and cognitive-impaired users.

Areas for improvement

Identified weaknesses of current AR testing tools included limited configuration and scope of challenges, and a lack of usability, guidelines and automated testing.

Recommendations for enhancement

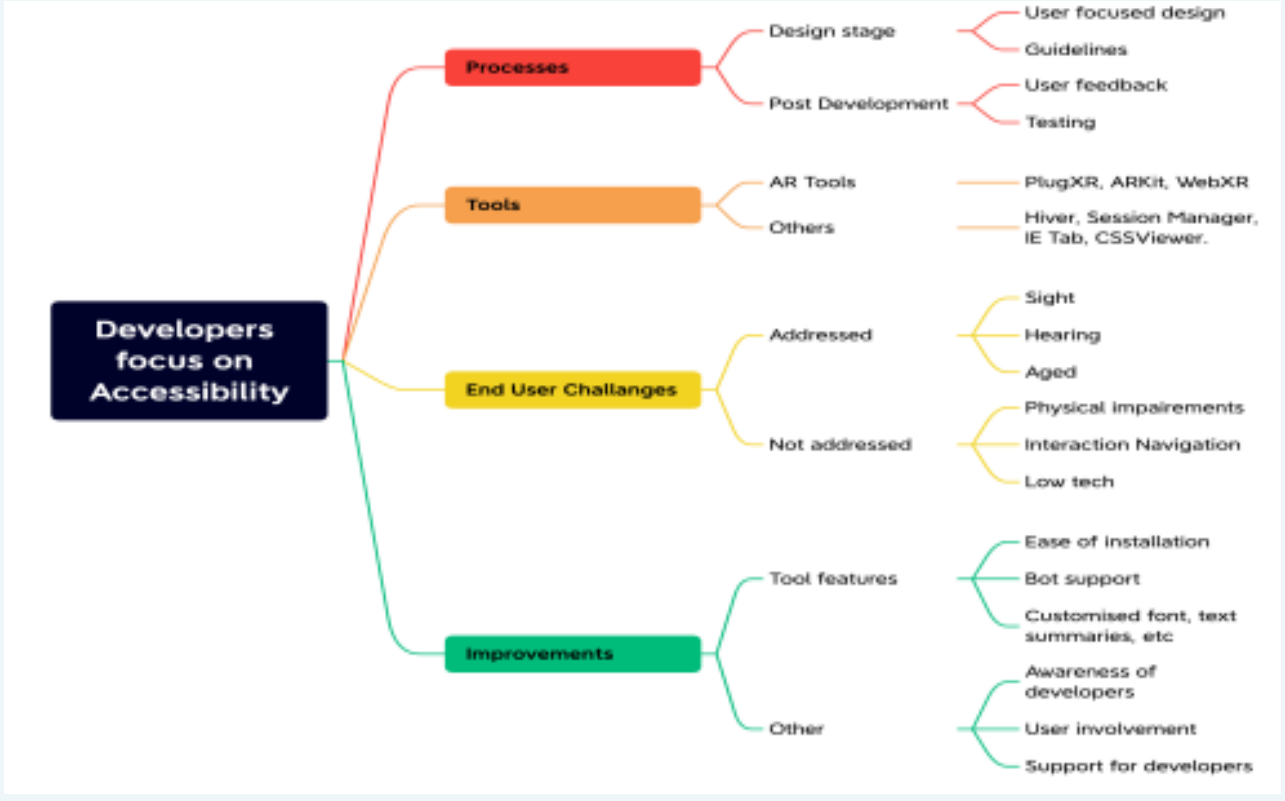
Suggestions to improve processes and AR testing tools involved use of symbols vs text, better training and and boosting developer awareness.

Methods and tools

Surveyed 30 software practitioners to explore their challenges and approaches to website accessibility.

Evaluated how well leading AR testing tool Funkify can simulate user experiences and challenges when interacting with software.

Adopted a heuristics-based approach and cognitive walkthroughs on three target websites for tool evaluation.



Get in touch

If you would like to learn more about this project, contribute best practices or improve the accessibility of your website and apps, contact Professor John Grundy or scan the QR code.

Acknowledgements

This project is funded by the Australian Research Council Laureate Fellowship FL190100035.

We would like to acknowledge the participants who completed the survey to assist with our research.

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Australian Government
Australian Research Council