Towards Cognitively Accessible Web Pages

Inclusive content and services

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Outline

Introduction

Intellectual impairments

Development process

Challenges

Example

Results

Conclusion and outlook

Questions
Introduction

Inclusive design of static and dynamic web pages
  Content and web applications
  UI and functionality (look and feel)

Accessibility

Usability

Cognitive/intellectual impairments
  Limitation of one's mental capability

Huge user group
Intellectual impairments

Focus and attention span
Learning and problem solving, orientation
Memory
Linguistic comprehension
Visual comprehension
### Development process

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Challenges

Research on mobility and sensory disabilities

Heuristics and educated guesses

Diversity/broad definition of user group
  Degree of severity of impairment
  Lack of knowledge: orientation

Balance
  Vague vs concrete recommendations
  Applicable vs invalid guidelines
Norwegian public service provider Altinn.no
Results

More accessible login solution

Number of concrete design recommendations per functional classification
  Memory, attention span, etc.

Development and style guide at http://ikttforalle.no/ (design for all, in Norwegian)
  Guidance for developers and designers
  Background, methodology, and development process
  Coding and style
Conclusion and outlook

Helpful design guidelines
Better usability for all
Need for quantitative research
Reflection of cognitive impairments in universal design
Reflection of cognitive impairments in standards
Translation of http://iktforalle.no/
Thank you for your attention!

Questions and comments

Other information
  Project site http://nr.no/pages/dart/project_flyer_kognett
  Till Halbach: http://nr.no/~halbach