

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



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



Focus and attention span

Learning and problem solving, orientation

Memory

Linguistic comprehension

Visual comprehension



Incremental prototyping

Development cycles/iterations

Requirements specification

Definition of needs

Implementation

Coding, styling

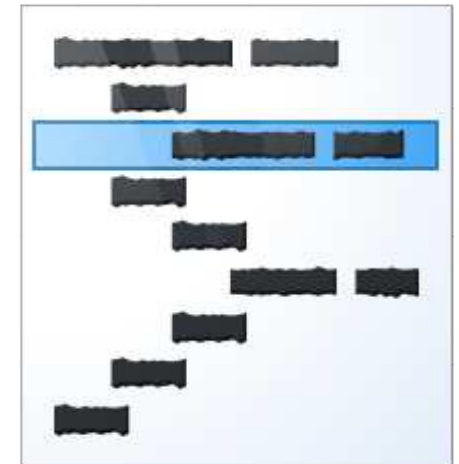
Testing

Scenarios/walk-throughs

Personas/role plays

Expert panel

Users (qualitative studies, interviews)



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

Simplified Electronic Dialogue - Norway - News and press - Contact and help - Service messages - Altinn A-Z - About Altinn

altinn

Front page | My main page | Forms and services | Help with the rules | Administration

Log on to Altinn

In order to continue, you must log on to Altinn. Choose a log on method below: ?

- I have a smartcard from Buypass
- I have PIN codes for MinID (letter from the Tax Administration)
- I have PIN-codes for my tax return (letter from Tax Administration)
- I have a one-off code from a letter ordered on Altinn [Order >>](#)
- I have registered a password and would like a one-off code by SMS
- I wish to use a password only
- I am a new user/ I wish to order one-off codes/ I have forgotten my password

Fill in the fields below and click *Log on*.

Personal identity number: ?

Password: ?

This log on method results in security level 1.

Altinn - The Brønnøysund Register Centre - Phone: +47 75 00 60 00 - support@altinn.no - Organization number: 974 760 673

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To main part

Portal page | Help & contact | About Altinn | Text size | Language | Phrase | Find

Status: Unknown user | Insecure connection

You are here: Portal page > Login

You want to start a new company. Therefore, you have to login to identify yourself.

Step 1 of 2: Choice of login method

Please choose how you would like to identify yourself.

- With a Telephone / short message
- With MyID
- With a Buypass smartkort
- Using a password

Assistance

- Demonstration
- Information on security & privacy
- Blocking of login & security codes

More accessible login solution

Number of concrete design recommendations per functional classification

Memory, attention span, etc.

Development and style guide at <http://iktforalle.no/> (design for all, in Norwegian)

Guidance for developers and designers

Background, methodology, and development process

Coding and style



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>