Fixing the Web

Combining Advanced Linking and Visualisation in HTML5

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Overview

- Motivation
- Alternative tools (Research training)
- Proposed solution
- Contribution
- Future work

Motivation

Current standard

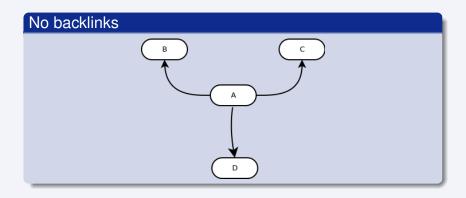
The word Google is a link.

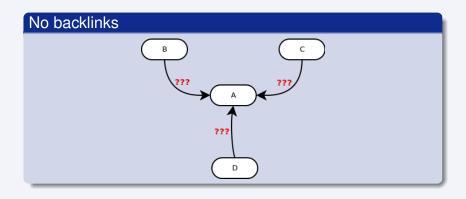
- HTML anchor tags (since 1995)
- Embedded
- Single source and single destination
- Unidirectional

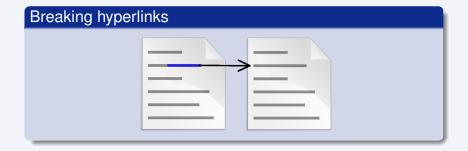
 $\label{lem:continuous} This will be an overlapping part of two different links tortor.$

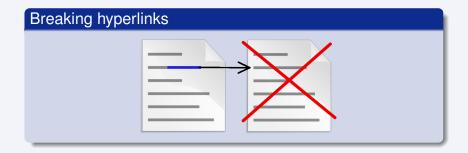
No overlapping hyperlinks

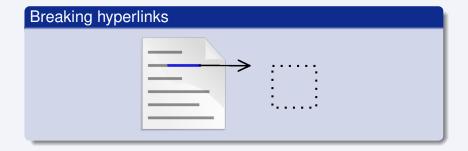
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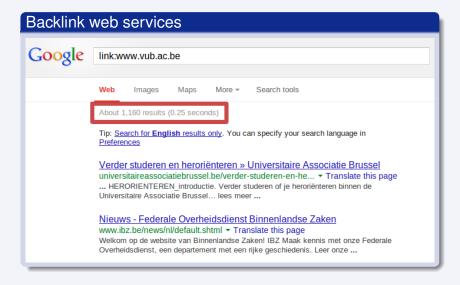








Coping Mechanisms



Coping Mechanisms

Dummy content

Pleinlaan 2 1050 Elsene Belgium

P: +32/629.21.11

E: info@vub.ac.be

W: www.vub.ac.be







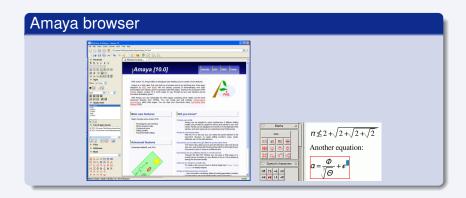




vCard



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Madcow



Selections





iWeb



Selections

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Collaborative Information Environments

Developments in mobile and ubiquitous computing are opening up who new possibilities of how users can access and interact with information. Instead of focusing solely on the digital desttop, it is important to consider the various forms of information and devices within the user's environment as well as how they interact with and influence other users.

Within the global information systems group, we are

Benefits

- Remove embedded hyperlinks
- Allow collaboration
- Share metadata

- Designed for small groups of users
- Inline rendering

Newly Introduced Issues

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Scalability

Lack of overview

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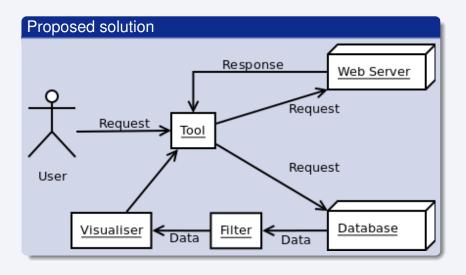
s. lacus

Newly Introduced Issues

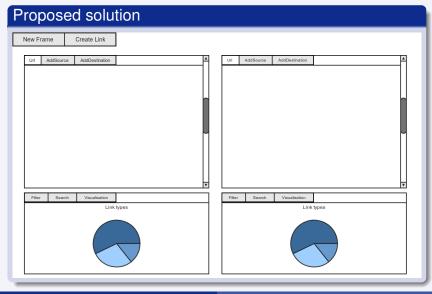
Suboptimal use of data dimensions

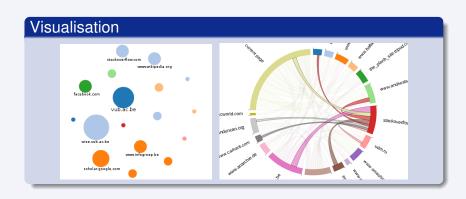
	Amaya	Madcow	iWeb
Location on page	✓	✓	✓
Document type	X	✓	X
Domain	X	Х	X
Amount of outgoing links	X	Х	X
Amount of incoming links	X	Х	X
Popularity of hyperlink	X	Х	X
Tagged Data	X	X	✓

Solution



Solution



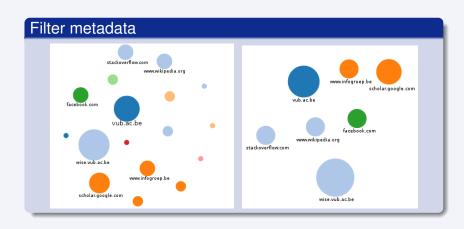


Filter metadata

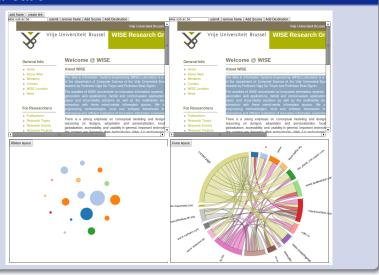
- User configuration
- Machine learning
- Community based voting
- ...

Filter metadata

- User configuration
- Machine learning
- Community based voting
- •



Visualisation



Solution

Demo

Contributions

- Literature study
- Identified shortcomings with state-of-the-art
- Innovative proposed solution
- Extensible prototype implementation

Future Work

- Link robustness
- Interactivity
- Visualisations

