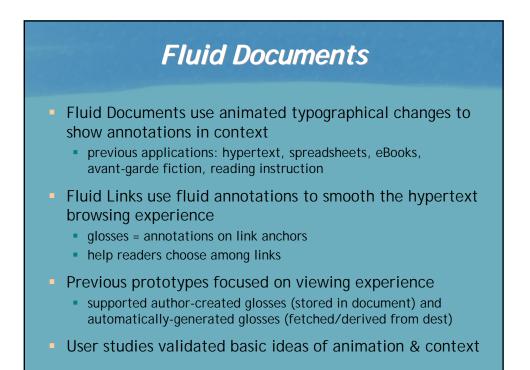
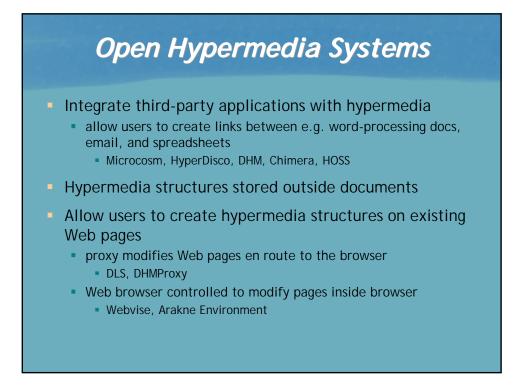
Fluid Annotations through Open Hypermedia

Using and Extending Emerging Web Standards

Niels Olof Bouvin Kaj Grønbæk Aarhus University, Denmark Polle T. Zellweger Jock D. Mackinlay Xerox PARC

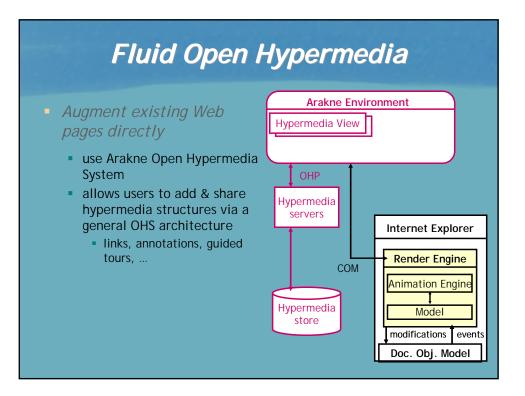
<section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item>

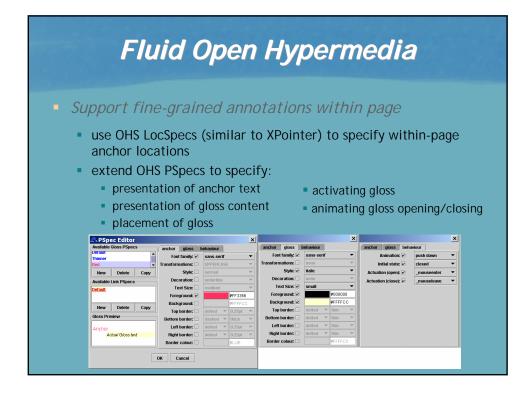


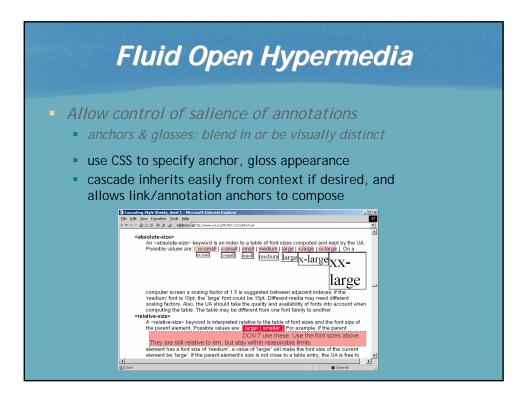


Requirements for Web Annotations

- Augment existing Web pages directly
- Support fine-grained annotations within page
- Allow readers to view glosses in context
- Allow control of salience of annotations
- Allow readers easy viewing control
- Allow readers to interact fully with glosses
- ... more in paper ...



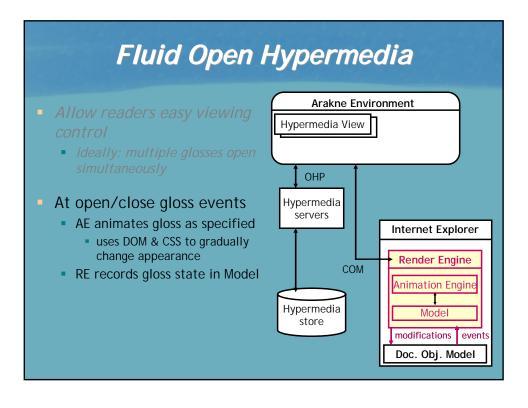


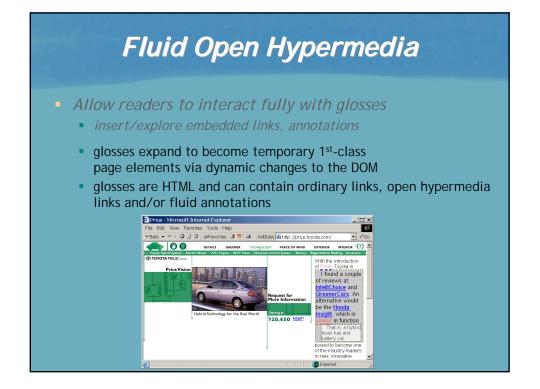


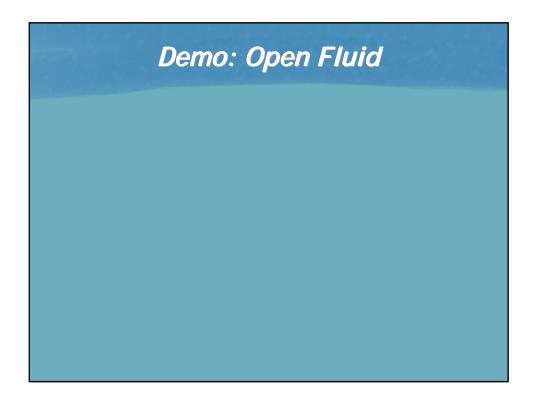
Fluid Open Hypermedia Allow readers to view glosses in context • *ideally: near anchor with minimal occlusion* animated opening/closing clarifies page changes glosses typically hidden, reader can interactively open "push down" technique gradually reveals the gloss below the anchor, while the following lines are pushed down the page to make room conference. Refereed P the areas such as: the areas such as: conference. Refereed P conference. Refereed Papers will be presented in the areas such as: Applications Browsers and User Electronic Comment Applications Applications Browsers and User Interfaces Electronic Commerce & Security Applications Browsers and User Electronic Commer · Browsers and User · Electronic Comme Hypermedia Languages Mobility and Wirele Multimedia Hypermedia ime. lypermedia vpermedia iedia as a field was arguably ed by Vannevar Bush (1890pior 197 Languages Mobility and Wire Multimedia ector of the Performance during WW2, and after th the landmark paper 'As W lescribing a hypothetical Searching, Queryir Semantic Web · Languages Performance Searching, Queryir Semantic Web · Mobility and Wire Multimedia Here is the list of Accep for Education, Global C

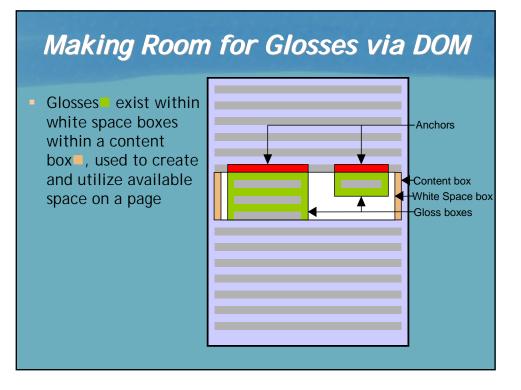
Performance

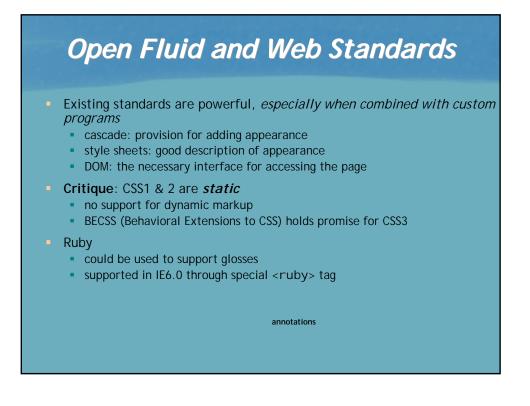
Languages











Open Fluid and Annotea

Annotea

- Web-based shared annotation framework
- available for Amaya, bookmarklets, & Annozilla
- Could be extended to support fluid behavior
 - presentation specification name space
 - (ignored if not supported by local platform)
- Critique: Annotea's notion of presentation is limited
 - both anchors and glosses

Extending Existing Standards

- Open Fluid relies heavily on DOM & CSS
- Dynamic behavior extends the reading experience
 - currently, little support for specifying dynamics
 - BECSS and ruby hold promise for CSS3
- Annotea
 - no provisions for complex presentation specifications
 - format can easily be extended

Conclusions

- Open Fluid provides fluid glosses on existing Web pages
 - implementation can handle complex HTML pages
 - gloss animations are responsive and smooth
- Readers can add their own glosses to existing Web pages
 - varied anchor and gloss appearance via CSS
- Behavior as exemplified in Open Fluid:
 - provides rich navigation and annotation
 - natural companion to Annotea, CSS, RDF, and XLink

