Fitting Manuscripts into the Browser with Diva.js



Building an Easy-to-Learn Interface for Exploring Virtual Documents

CIRMMT Research Axis 2 Workshop 25 September 2015

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- 1. Features of Book Viewing Interfaces
- 2. Features of Diva.js
- 3. Challenges Designing Diva.js

1. Features of Book Viewing Interfaces

Early English Books Online Qatar Digital Library (OpenSeadragon) Internet Archive Book Reader e-codices

Important features in a book viewer

Page switching – speed, continuity
Zooming – fast, streaming, smooth
Viewing modes – useful, easy to use

Page Switching

Page Switching - Early English Books Online



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Page Switching - Qatar Digital Library



Page Switching - e-codices



Page Switching - e-codices





Page Switching - Internet Archive



Zooming

Zooming - Early English Books Online



Zooming - Qatar Digital Library



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Zooming - e-codices



Viewing Modes

Viewing Modes - Early English Books Online

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Viewing Modes - Early English Books Online

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Viewing Modes - Internet Archive



Viewing Modes - e-codices



Viewing Modes - Internet Archive



2. Features of Diva.js

Our Goals for a Document Viewer

- Make it quick and easy to navigate a document
- Preserve the document as a cohesive entity

We design **page switching**, **zooming**, and **views** around these concerns



Continuous scrolling layout Zooming Tiling Jump to page Single, Book, Grid views



Continuous scrolling layout **Zooming Tiling** Jump to page Single, Book, Grid views



Continuous scrolling layout Zooming Tiling **Jump to page** Single, Book, Grid views



Continuous scrolling layout Zooming Tiling Jump to page **Single**, Book, Grid views



Continuous scrolling layout Zooming Tiling Jump to page Single, **Book**, Grid views



Continuous scrolling layout Zooming Tiling Jump to page Single, Book, **Grid** views



Support for the International Image Interoperability Framework (IIIF)

Given a IIIF-compliant image collection, users can choose viewing software that meets their needs

Of the surveyed viewers, Mirador, Internet Archive Book Reader, and Qatar (OSD) have IIIF support

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3. Design Challenges in Diva.js

Smooth zooming versus discrete zoom levels



Smooth zooming versus discrete zoom levels



Grid view buttons



Other issues

Page titles - presenting page numbers consistent with the original manuscripts ("folio 1 recto [1r]" as opposed to "0, 1, 2")



Review: Presenting Virtual Documents

1. Features (paging, zooming, views) of existing document viewing solutions

Early English Books Online Qatar Digital Library (OpenSeadragon) Internet Archive Book Reader e-codices

2. Features of Diva.js

Quick and easy document navigation Preserving the document as a cohesive entity

3. Design Challenges of Diva.js

Zooming Grid View buttons Page numbering

Thank you!

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SIMSSA : Single Interface for Music Score Searching and Analysis



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