Fitting Manuscripts into the Browser with Diva.js

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

CIRMMT Research Axis 2 Workshop
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Evan Magoni
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
Qatar Digital Library is free to use and reuse.

This growing archive covers modern history and culture of the Gulf and wider region, available online for the first time.

EXPLORE THE ARCHIVE

ARTICLES FROM OUR EXPERTS
STUDENTS' INTERLINEAR TRANSLATIONS

VIRGIL’S ÆNEID
Books 1-VI

The Original Text
with a Literal Interlinear Translation

BY
FREDERICK HOLLAND DEWEY, A. B.

TRANSLATION PUBLISHING COMPANY, INC.
26 Fifth Avenue
New York City
Zooming
Zooming - Early English Books Online
Zooming - e-codices
Viewing Modes
Viewing Modes - Early English Books Online
Viewing Modes - Early English Books Online
Viewing Modes - e-codices
Virgil’s Aeneid, books I-VI: the original text with a literal interlinear

Propinquus consanguinitate, pauper pater

BOOK II
The Tale of Troy.

57

quodcumque faerit, inquit, "acque

...
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
Features

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

Future: Smooth zooming
Features

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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.
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!

http://ddmal.github.io/diva.js
evan.magoni@mail.mcgill.ca