diva.js

A web-based document viewer for high-resolution images

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Outline

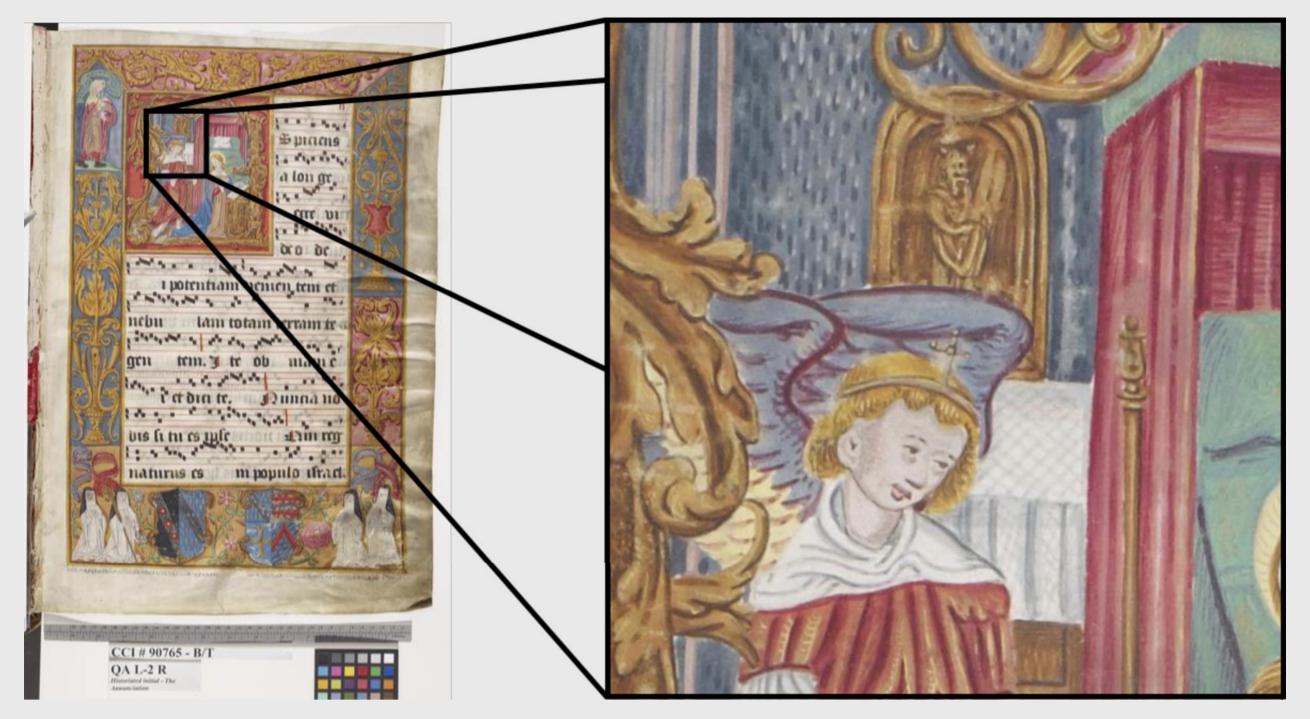What it is

How it works

Image manipulation features

What it is

High resolution

Preserve document structure (scrolling)

 Fast and easy to use

💵 Free tool

Distribution?
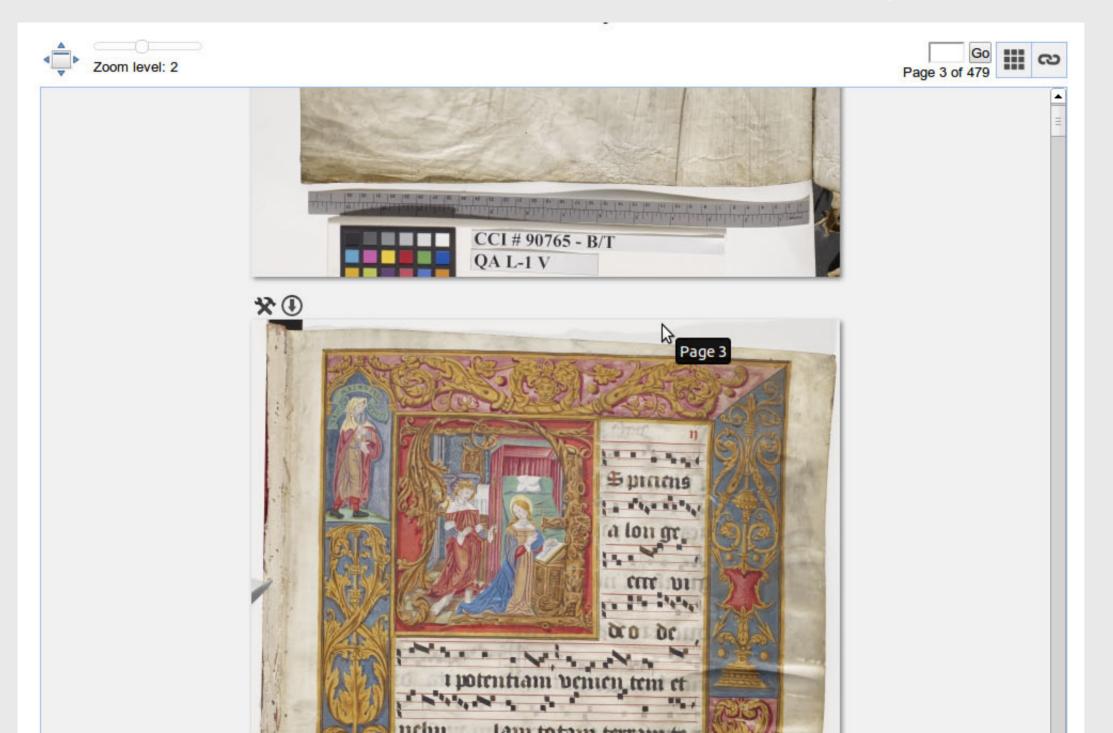
TIFF, ~30 megapixels (~180 MB) per photo

180 MB × 479 images ≈ 86 GB

Enter Diva.js

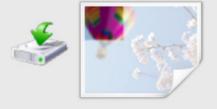From manuscript ...

To browser-based document viewer.

🔍 Zooming in and out

Grid view

☀ ◑ Image manipulation

⏱️ Extremely fast

 Selective downloading

How it works

Tiled images (JPEG2000 or pyramidal TIFF)
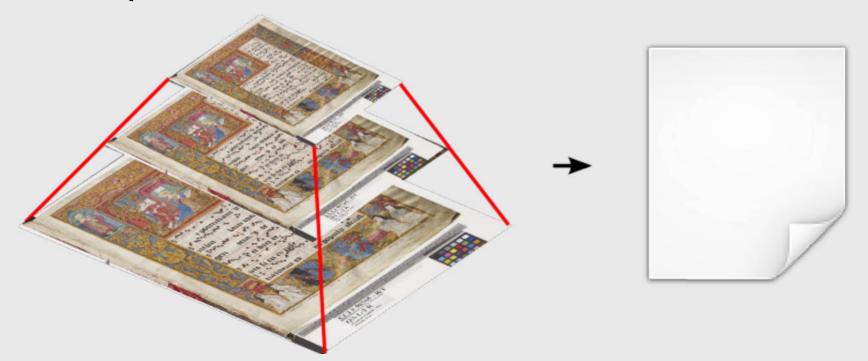
Multiple resolutions in one file

 Image server: IIPImage

Setup frontend scripts

Demo

http://coltrane.music.mcgill.ca/salzinnes/experiments/diva-cci-tif/
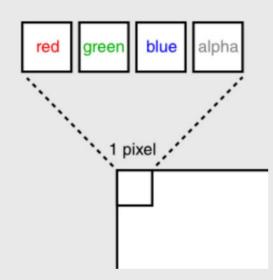
New feature: plugin system

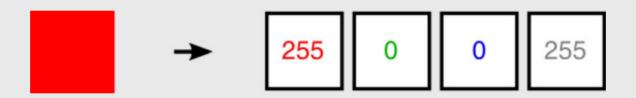Download plugin

🛠️ Image manipulation plugin

Canvas: HTML5 feature

Canvas: HTML5 feature

Working with large images: slow.

More pixels → more operations

Solution: thumbnail preview.

MIT license

Download from ddmal.music.mcgill.ca/diva

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Thanks.