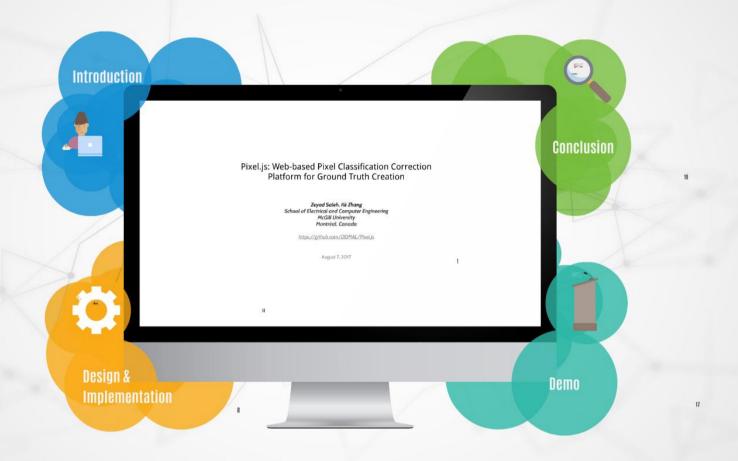
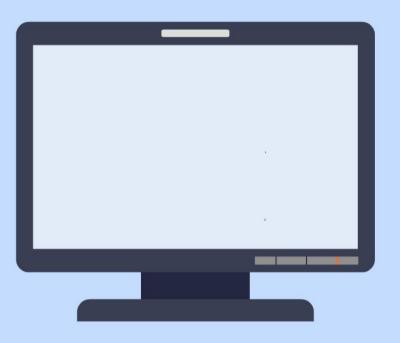
Pixel.js: Web-based Pixel Classification Correction Platform for Ground Truth Creation

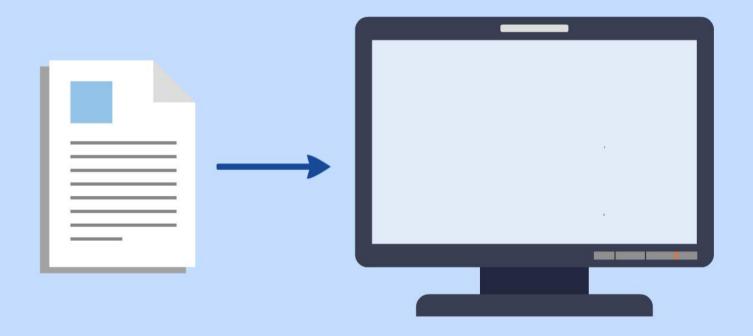
Zeyad Saleh, Ké Zhang School of Electrical and Computer Engineering McGill University Montréal, Canada

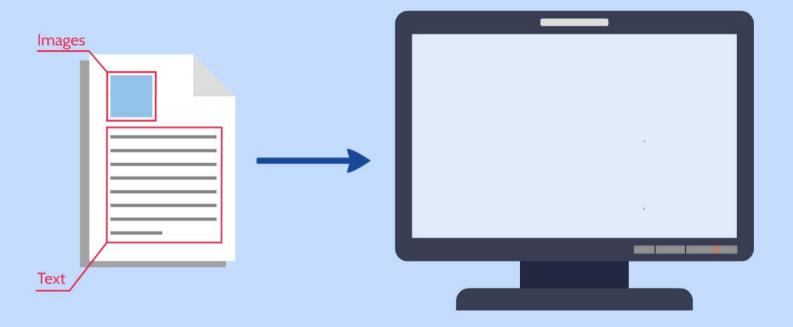
https://github.com/DDMAL/Pixel.js

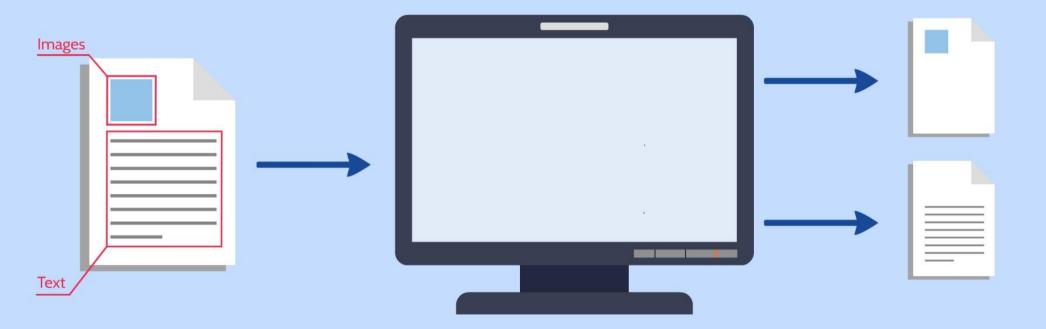
August 7, 2017







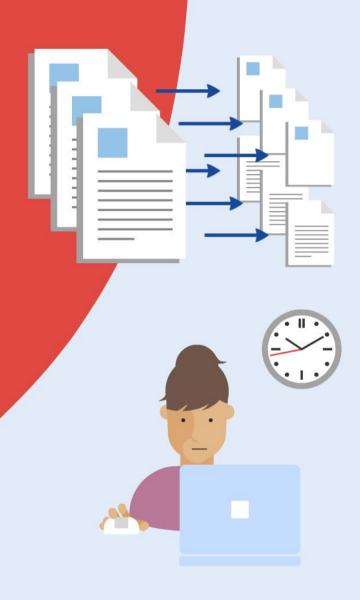


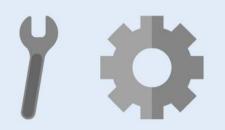




GROUND TRUTH

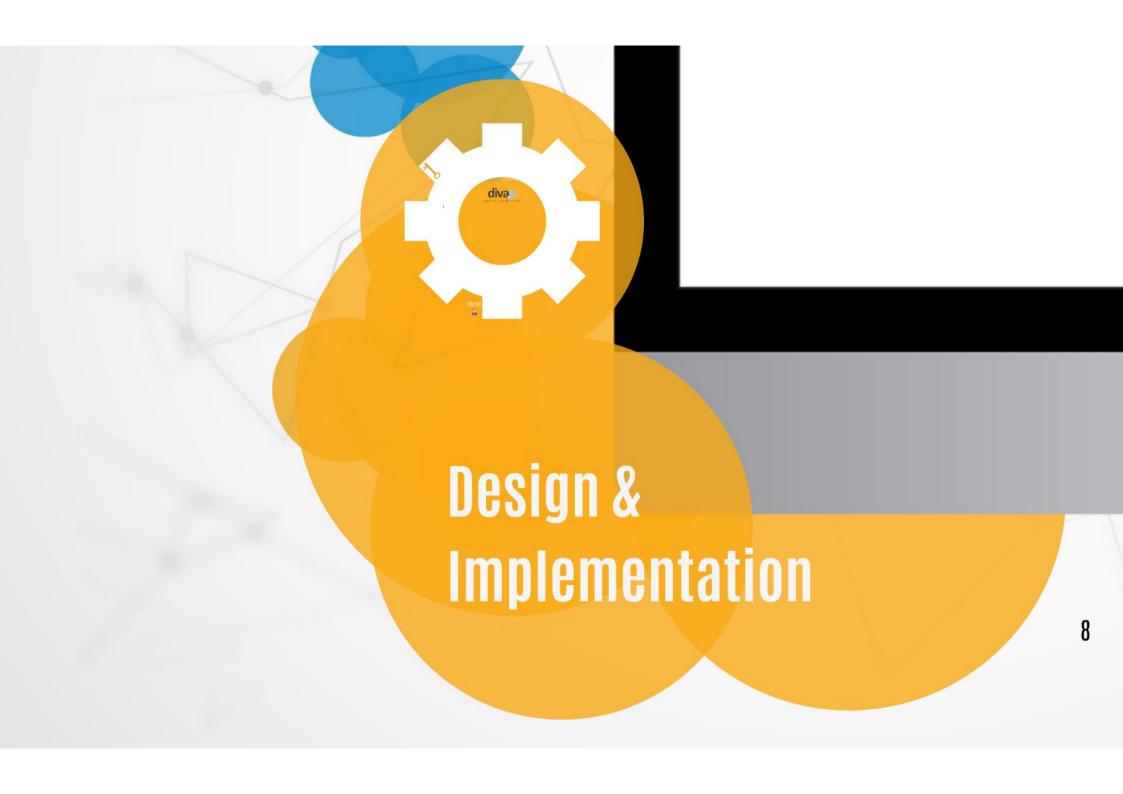
GROUND TRUTH







- 1 Layering and Graphics Editing
- 2 Web-based
- Pixel-level Classification and Correction
- 4 Standalone / Workflow Process



1 Ease of use

2 Accessibility

3 Efficiency



Hankinson, Andrew, Wendy Liu, Laurent Pugin, and Ichiro Fujinaga. "Diva.js: A continuous document viewing interface." Code4Lib Journal 14, no. 9 (2011).

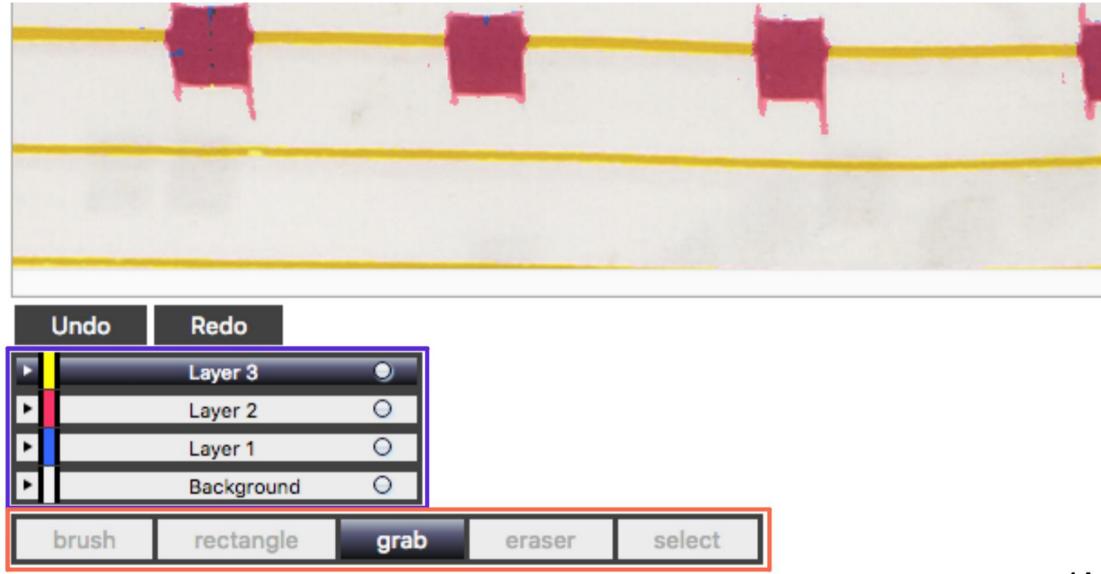
USER SIDE WHAT CAN PIXEL.JS DO?



- Toolbox
- 2 Layers
- 3 Import & Export



2

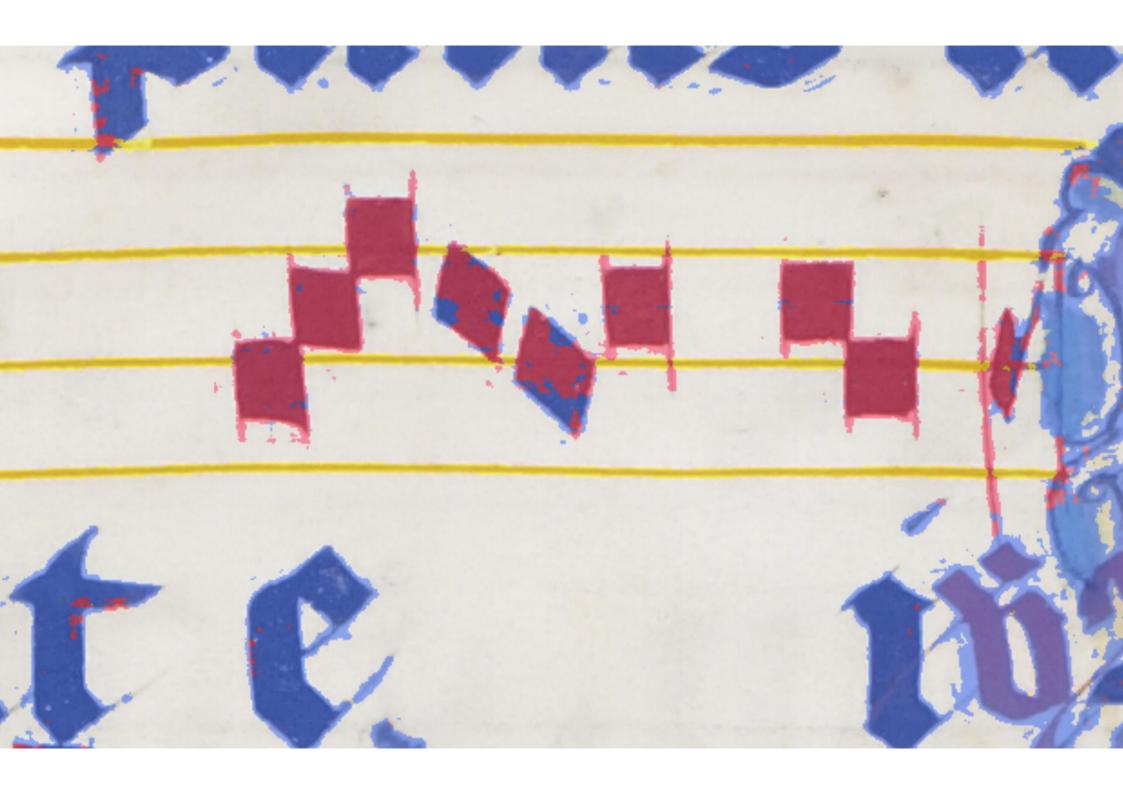


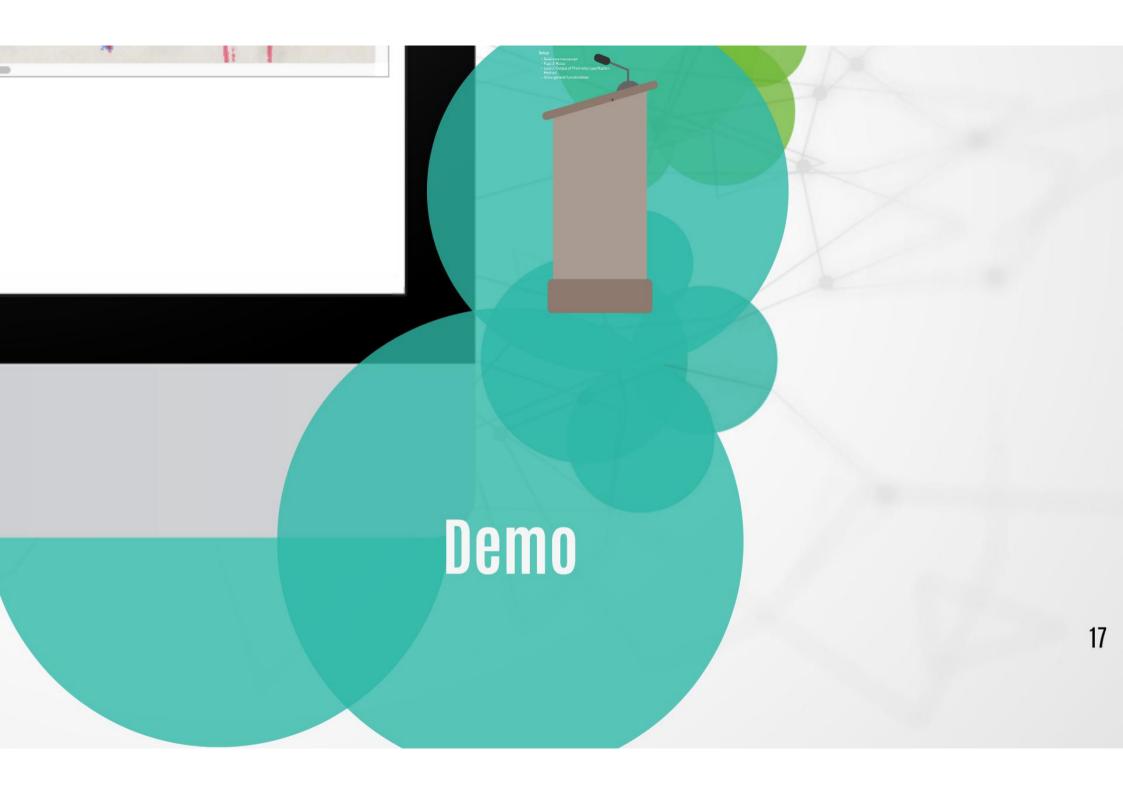
14

Export as CSV Export as highlights PNG

Export as image Data PNG

Choose File





Setup

- Salzinnes manuscript
- Page 3-Recto
- Layers: Output of Pixel-wise classification Method
- Show general functionalities

Results

 $30 \longrightarrow 18$ hrs/page hrs/page

- 40% reduction in production time
- "I have found Pixel to be quite user friendly[...],
 it's easy to use because most of the functions
 are very intuitive" Vi-An Tran



Summary

- Graphics editing platform for pixel-level classification correction
- Web-based
- Open Source: https://github.com/DDMAL/Pixel.js
- Standalone or integrated in complex workflows

