Text Segmentation

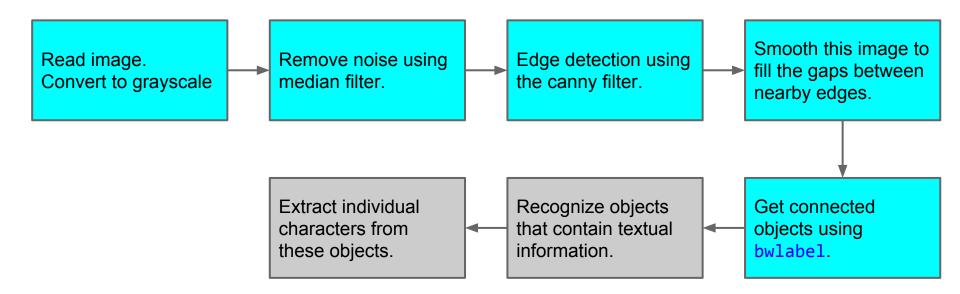
Devesh Rai and Ronit Galani

Goal

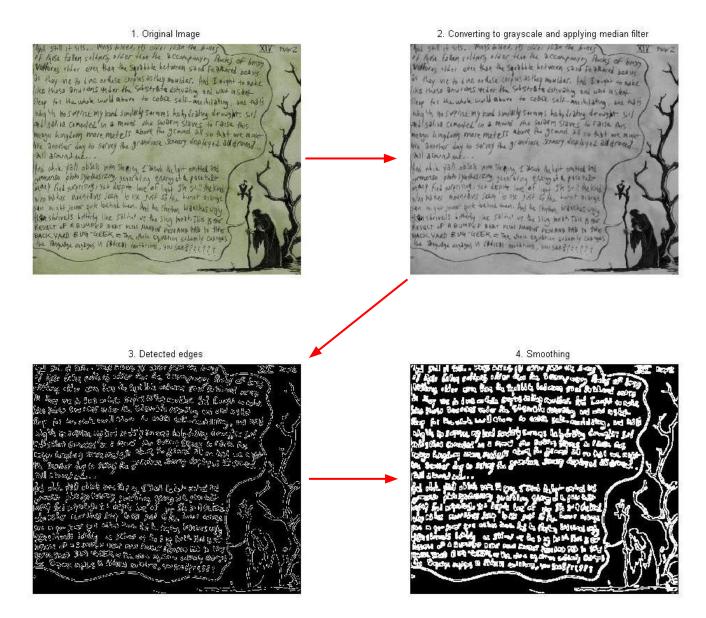
To extract individual text characters from the image.

- The image may possibly contain other information such as pictures, sketches etc.
- The text may possibly be handwritten.
- Touching characters, kerning, low contrast etc.

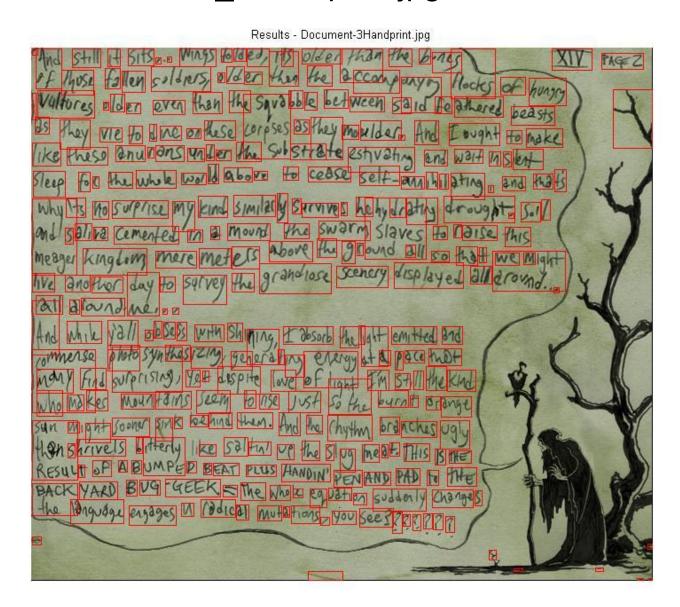
Algorithm



Algorithm run for Document_3Handprint.jpg

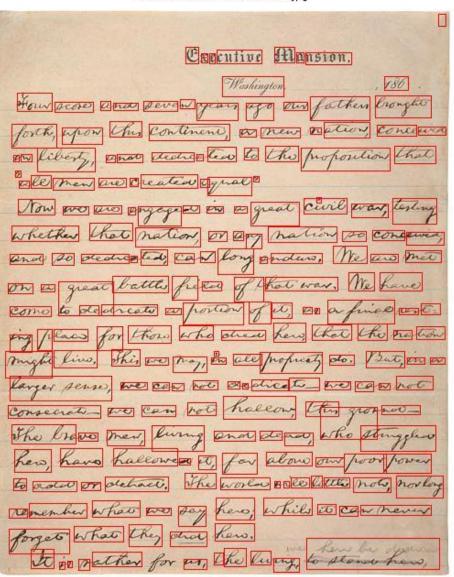


Output for Document_3Handprint.jpg

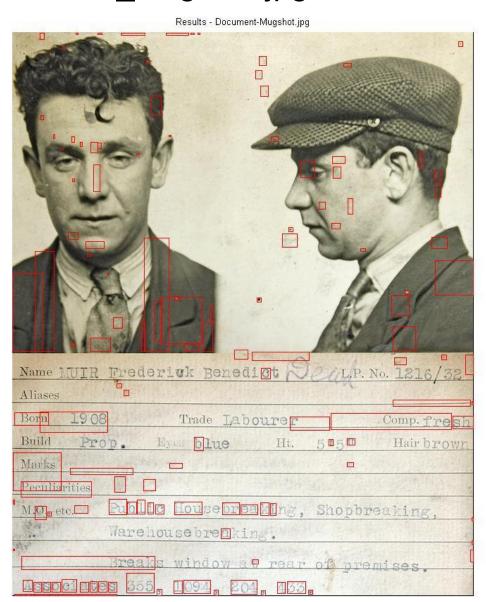


Output for Document_Mansion.jpg

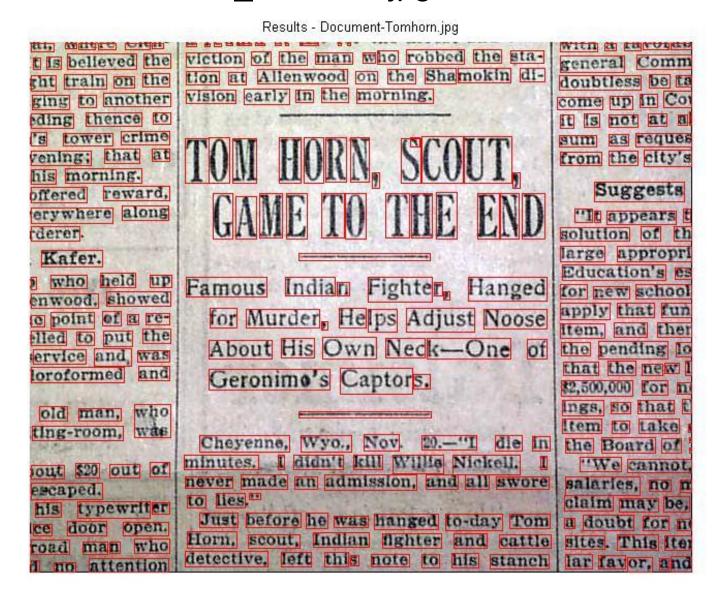
Results - Document-Mansion.jpg



Output for Document_Mugshot.jpg

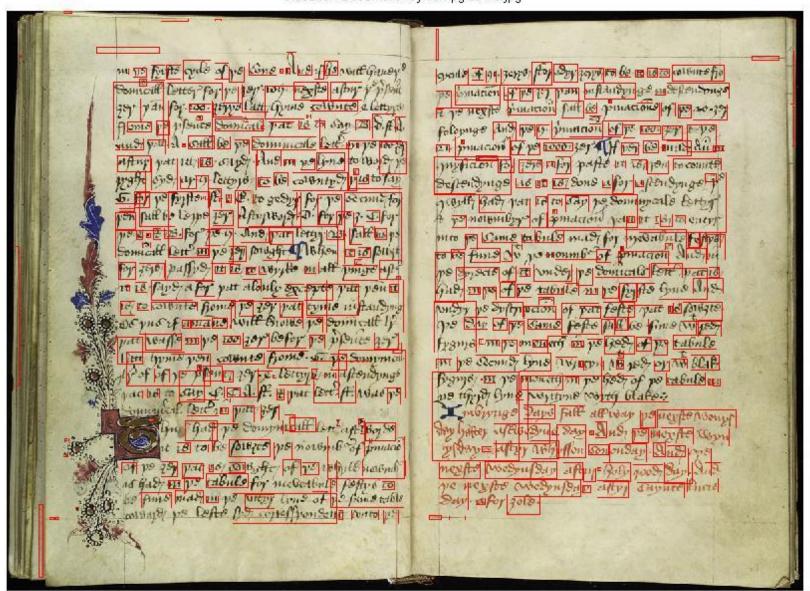


Output for Document_Tomhorn.jpg



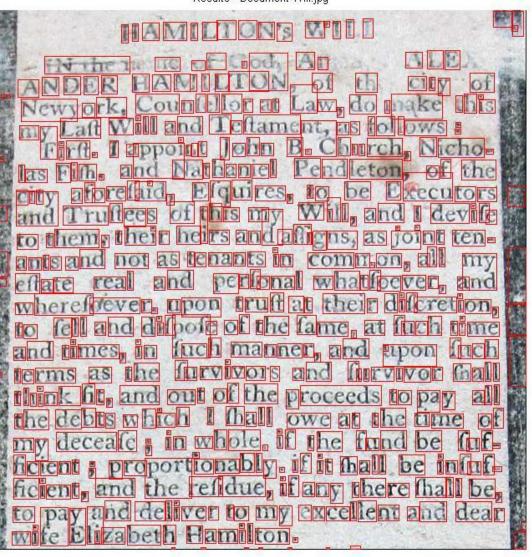
Output for Document_voynich_pg-39-40.jpg

Results - Document-voynich-pg-39-40.jpg



Output for Document_Will.jpg

Results - Document-Will.jpg

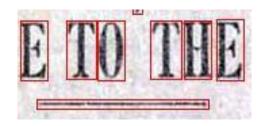


Things to do

Discard objects with no textual information.







Things to do

Identify overlapping objects.

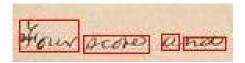




May lead to multiple detection of same characters.

Things to do

Extracting individual characters.



Single-line



Multi-line





Broken characters

Questions?