



# Mopping up with eMOP: the Early Modern OCR Project at Texas A&M



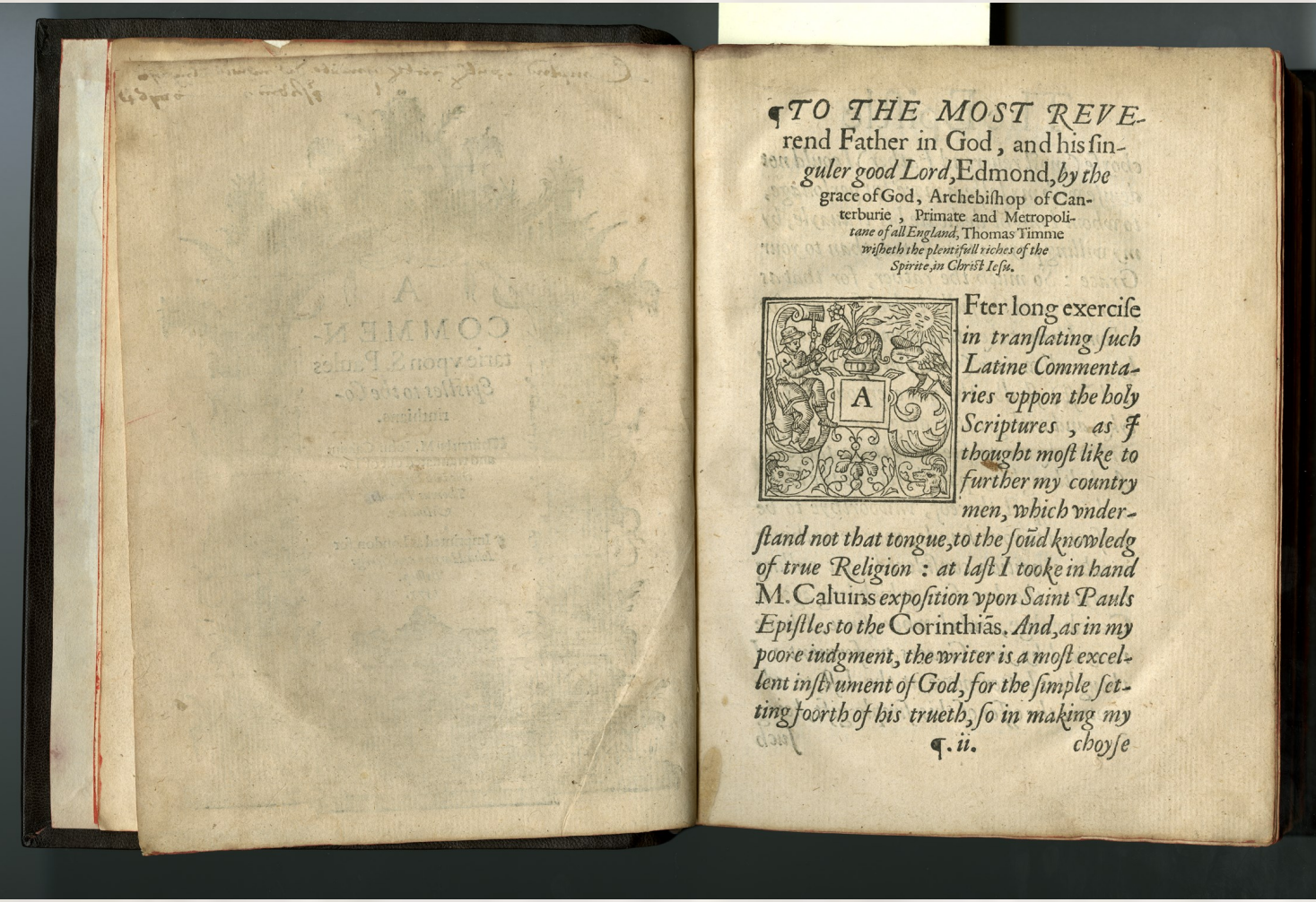
<http://emop.tamu.edu/>

## Introduction

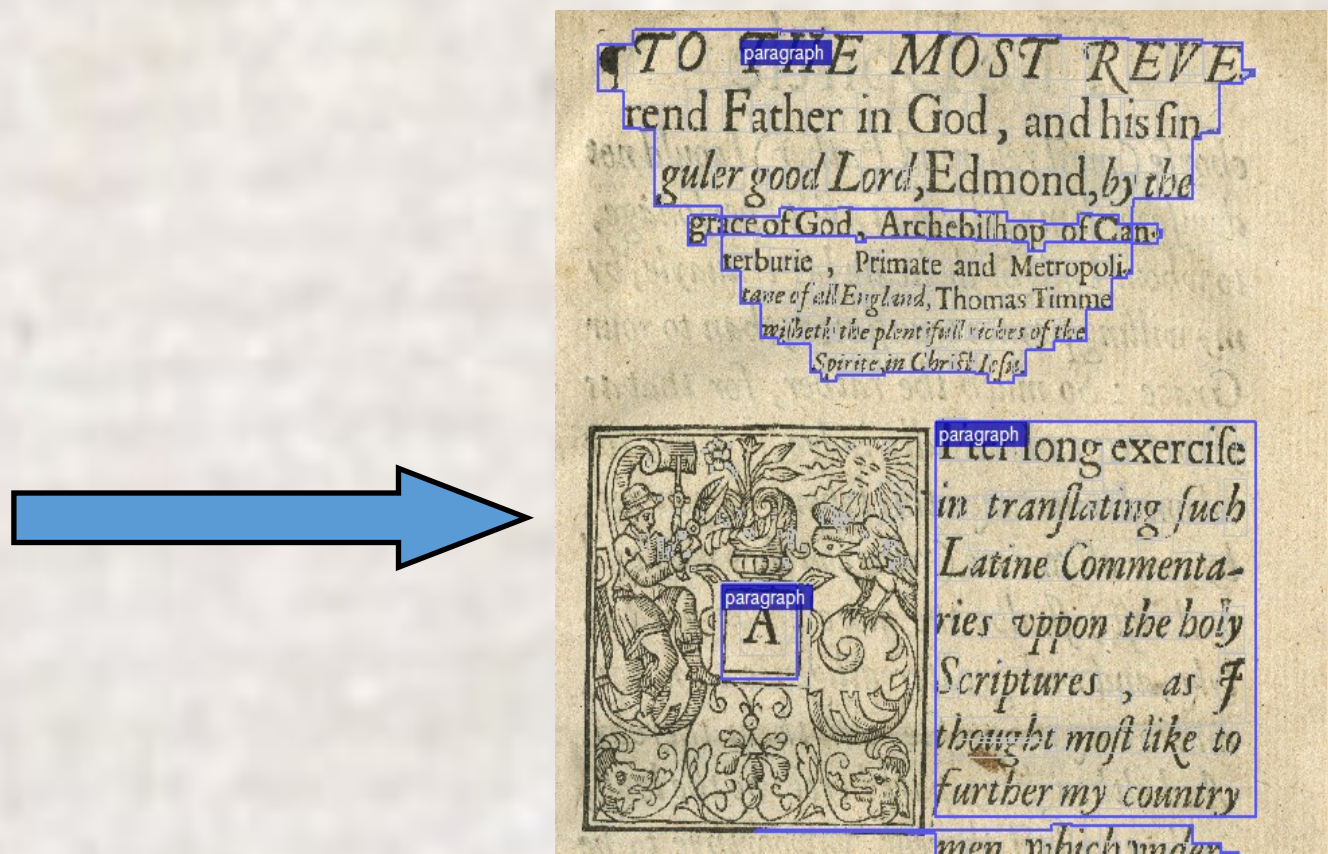
The field of Digital Humanities offers interesting new scholarly and pedagogical possibilities for literary studies as a whole and early modern and eighteenth-century studies in particular. The Early Modern OCR Project (eMOP) at the Initiative for Digital Humanities, Media, and Culture at Texas A&M seeks to improve the usability of texts available through the EEBO and ECCO databases. As part of this project, four undergraduate students with little to no advanced technical knowledge are taught to train OCR engines to read and recognize fonts in text images from the EEBO and ECCO collection. This hands-on project has served as a means of introducing students to texts, fonts, and unique print characters of the period.

## Step Two: Page Segmentation and Analysis

Layout regions, lines, words, and individual glyphs in a text are identified and defined using Aletheia Desktop, a tool developed by PRImA Lab at the University of Salford that performs page segmentation and text recognition, among other tasks.



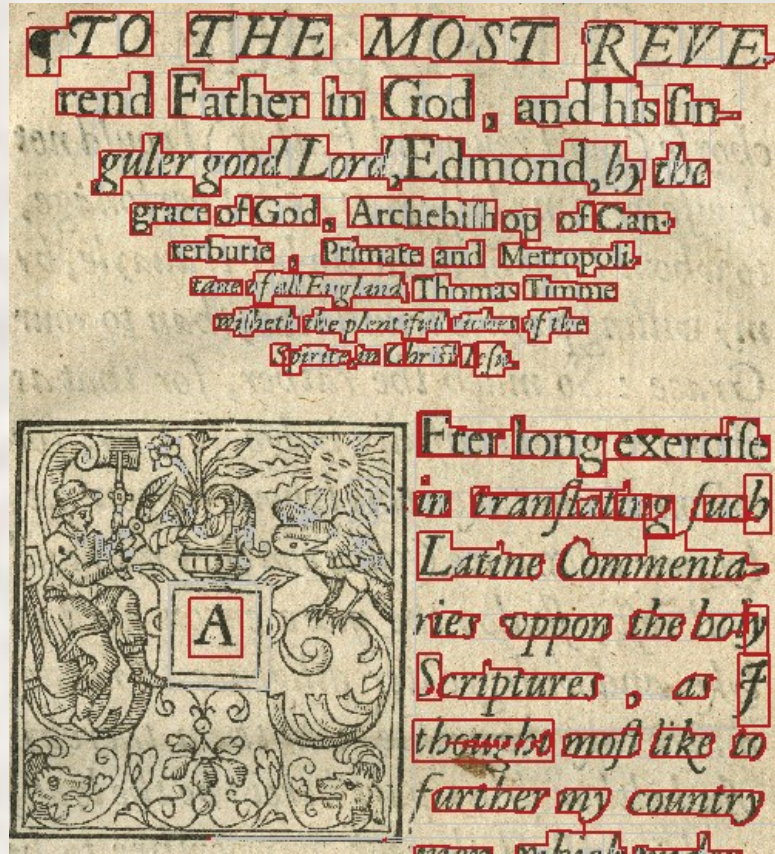
Document Image



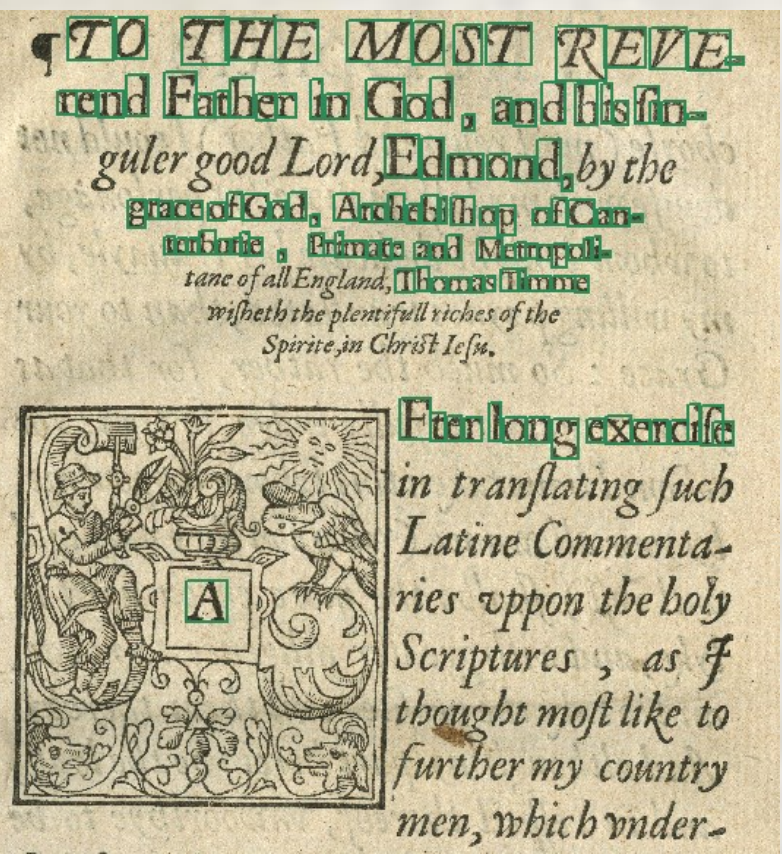
Layout Regions



Text Lines



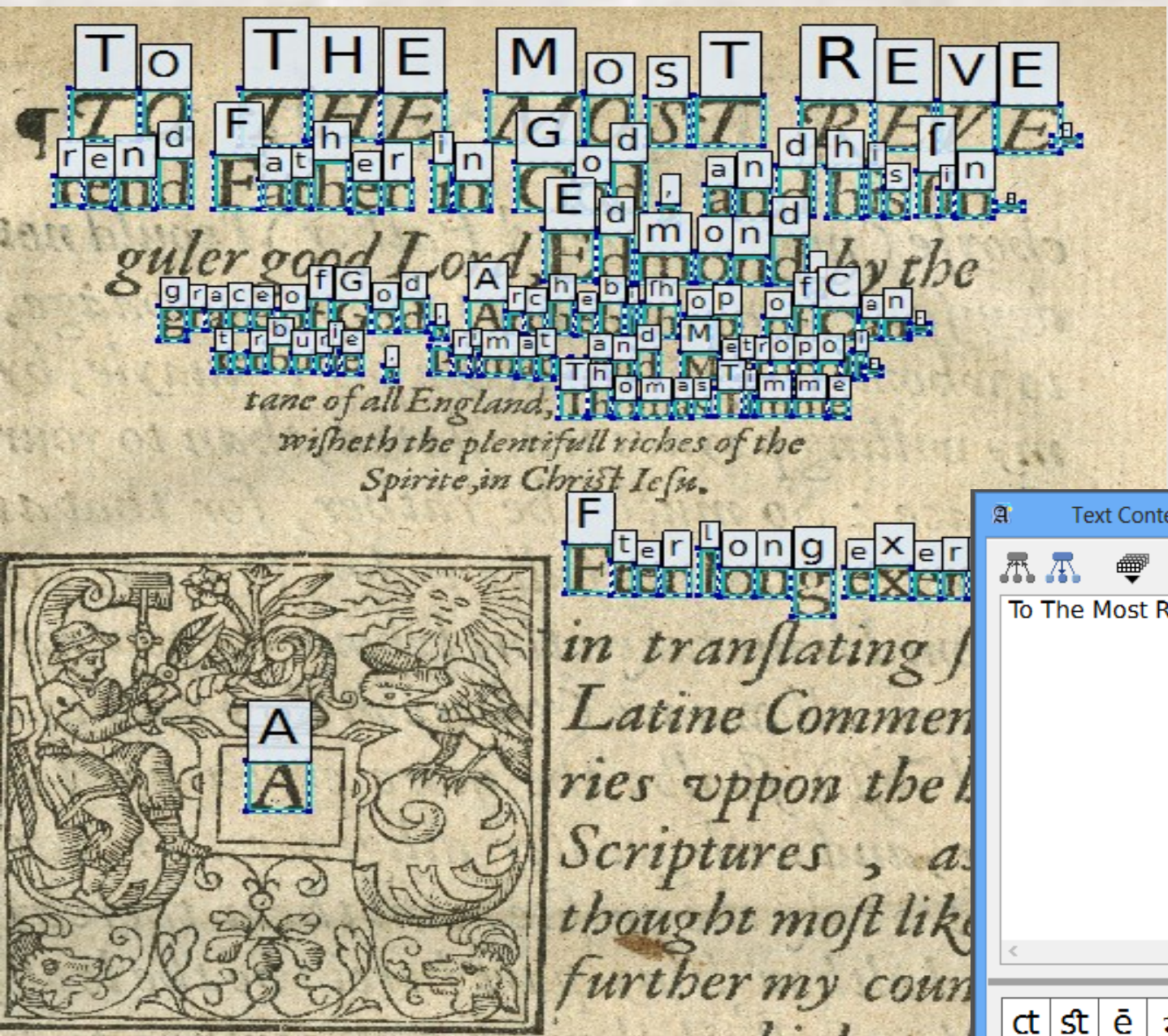
Words



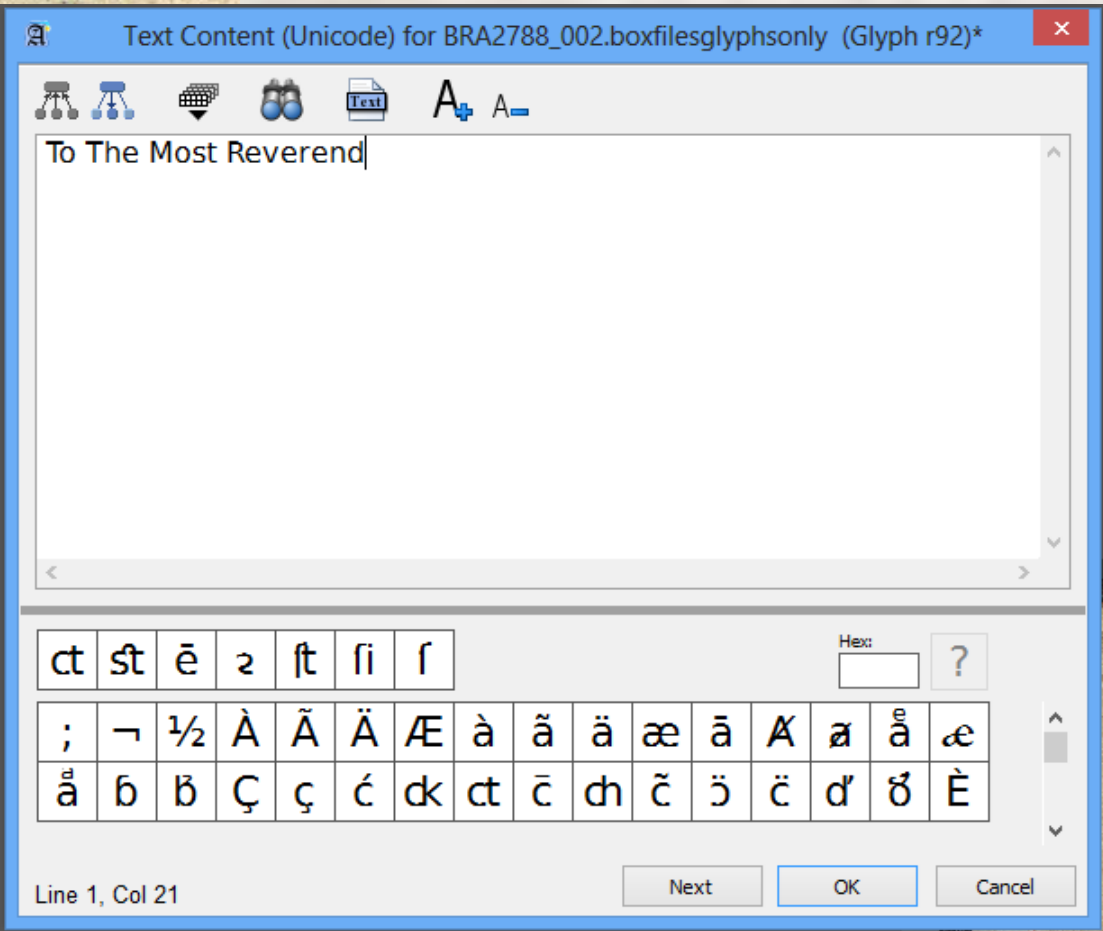
Glyphs

## Step Three: Text Correction

Aletheia analyzes the page image and generates text for each character. Students are then responsible for fixing any “misreads” by typing in the correct text in the Text Content Box for each corresponding character--paying special attention to unique characters such as long S’s, ligatures, italics, rotunda R’s, suspension marks, and printer’s marks.

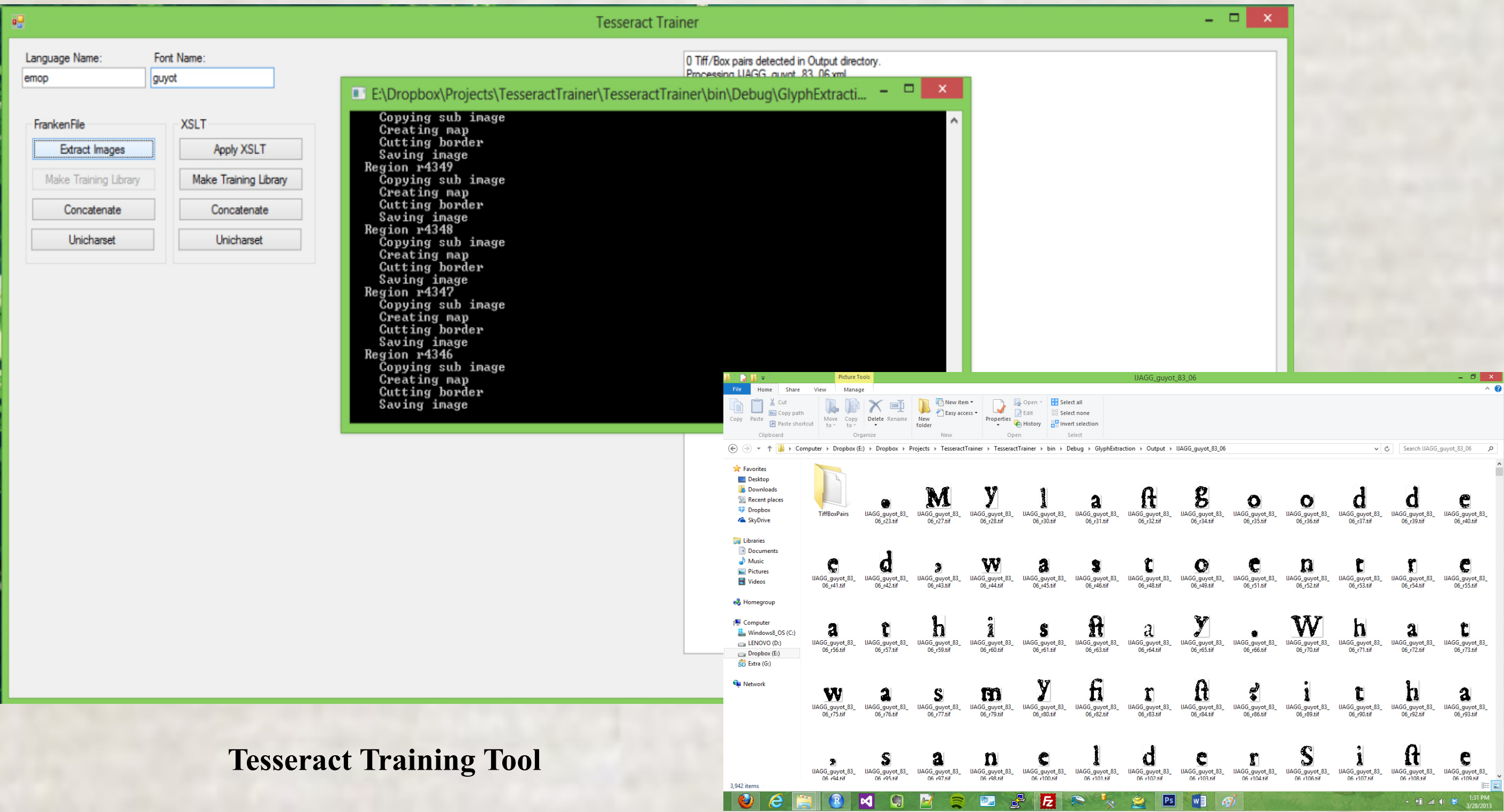


Text Correction



## Step Four: OCR Training

10-15 page images are processed for each font type and comprise a training set. A Tesseract training tool uses the font set to train the OCR engine to read and recognize that particular font.



Tesseract Training Tool