

Use Cases

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1 Straightforward-Use Case

The user has an image file containing handwriting and wants it to be converted into machine readable (ASCII or Unicode) format. The user would load the desired image file and tell the program to try and recognise the handwriting it contains. The user would then manually correct any segmentation or recognition errors. Corrected recognition errors would result in the softwares database of samples being updated.

2 Training Use-Case

The user wants to train the software using samples of handwritten text which have already been converted to text by the user. The user supplies the image file containing handwritten text and the text file containing text in the same line format. The software will then segment the document and take the ASCII representation for each segment from the supplied text file. Should any segmentation problems occur the user will manually correct them.

3 Batch Run Use-Case

The user wants to do multiple recognition or training runs. The user supplies multiple image files (for recognition) or multiple image+text pairs (for training) and the program performs the actions for recognition or training on each supplied input. Segmentation or recognition errors will be corrected by the user once the batch job has completed.

4 Algorithm Experimentation Use-Case

User wants to experiment with different algorithms to see what best suits their handwriting style. User supplies an image+text pair like with training. The software tries to recognise the handwriting in the image and uses the text document to compute its accuracy. User would be able to supply multiple algorithm configurations and see the accuracy results for each at the end.