3 - Using a Pre-Trained Model to Recognise Text

Scenario

1. **start with a previously trained model: *see how it goes***
2. manually correct some of the automatic transcriptions
3. fine-tune model with corrected data
4. use in production

The Dataset: NorHand v2

Based on:

> Beyer, Y., & Solberg, P. E. (2024). NorHand v2 / Dataset for Handwritten Text Recognition in Norwegian [Data set]. Zenodo. https://doi.org/10.5281/zenodo.10628791

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About the Pre-Trained Model

Trained on:

- portion of "NorHand v2" - texts by Henrik Ibsen
- 150 pages, ca. 2800 lines
- validation error rates:
  - CER = 5.37%
  - WER = 18.85%

About the Test Data

- portion of "NorHand v2" - texts by Kristine Bonnevie
- 10 pages, ca. 200 lines

Preparing Loghi - inference-pipeline.sh

Things we need:

- path to Laypa model
- path to Laypa configuration
- path to pre-trained Loghi model

Modifying inference-pipeline.sh

```
LAYPABASELINEMODEL=INSERT_FULL_PATH_TO_YAML_HERE
LAYPABASELINEMODELWEIGHTS=INSERT_FULLPATH_TO_PTH_HERE
```

```
HTRLOGHIMODEL=INSERT_FULL_PATH_TO_LOGHI_HTR_MODEL_HERE
```

Running inference-pipeline.sh

```
./inference-pipeline.sh PATH_TO_IMAGES
```

Inspecting the Results