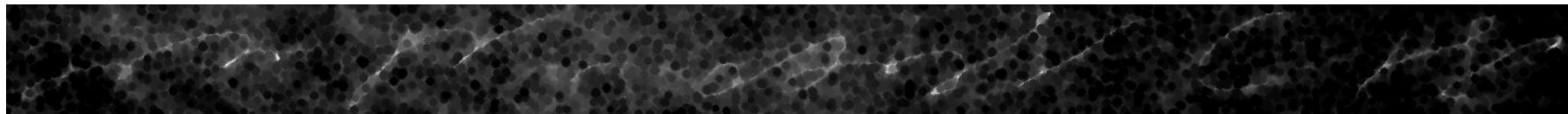


# 5 - General Thoughts and Experiences from Implementing HTR Models

# Preprocessing and Augmentations

- check the impact of your chosen parameters, especially the extremes
- e.g. erosion with a large structuring element may remove almost all traces of handwriting



# Transcriptions

- clarify/decide standards and formats as early as possible
- any ***type*** of information that you want to recognise “in production” also has to be present during training
- should abbreviations be expanded or not?
- preserve vs fix spelling mistakes in original text?
- ...

# Training Data

- check if datasets, similar to yours, are available online
  - e.g. zenodo community: IAPR-TC11  
<https://zenodo.org/communities/iapr-tc11>
- consider trying “close enough” datasets, e.g.
  - Norwegian vs Swedish
  - 19th vs 20th century
- typewritten (and similar) texts
  - try pre-training on synthetic data, created from computer fonts + some artificial noise

# Finetuning

- can give a considerable performance boost
- already have a model, trained on lots of data?  
→ use it to kick-off your next recognition project!
- sometimes, finetuning on original train set can give a small boost as well

# Training/Finetuning Iteratively

- train on small dataset
  - or use existing data/model from similar domain
- recognise new pages
- fix recognition mistakes
- train/finetune model on expanded dataset

# Miscellaneous

- keep track of your training parameters
  - e.g. via config files
  - avoid changing parameters directly in the code → hard to keep track of (remember) and hard to reproduce!
- keep track of your environment
- whenever possible, consider sharing your models & data ;)