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# Can Patch Selection Heuristics Enhance Layout Analysis of Music Scores?

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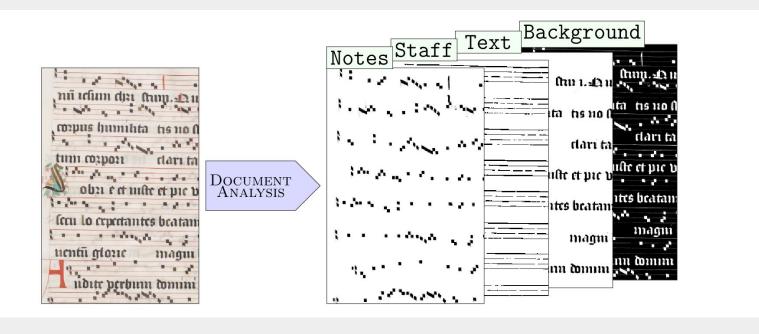






## Layout analysis

### Introduction





### Layout analysis

### Motivation



#### SALZINNES (SAL)



10 pages of  $5\,100\times3\,200$  px.

How obtaining ground truth for training a model?

- Annotating a lot of pages.
- Annotating a few pages.
- Annotating a few selected samples.



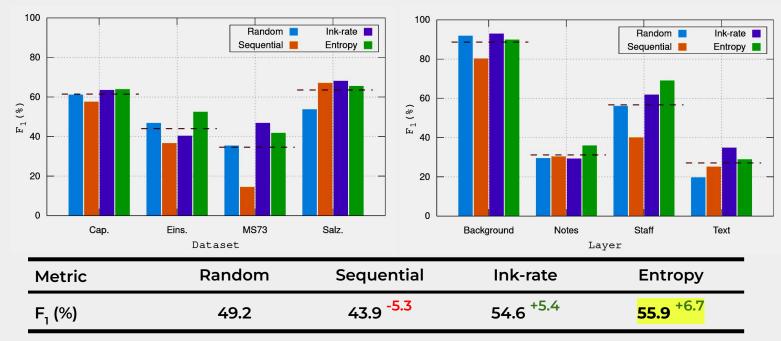
## Methodology



- We divide the image in selectable patches.
- We annotate one patch for training.
- What patch should we select?
  - o Entropy.
  - Amount of pixels for the layer of interest.
  - o Randomly.
- This process would be iterative, until obtaining a robust model.



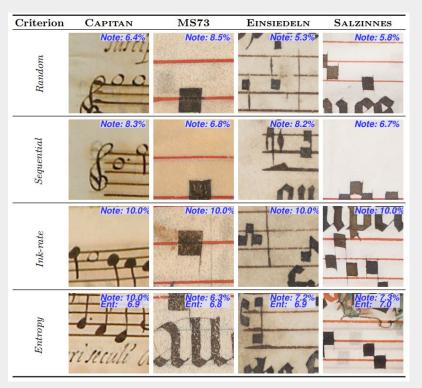
## **Experiments**



\*Superscript values denote the improvement rate (%) with respect to the random method (baseline).



### Conclusions



- Ink rate selection is not always the best option.
- The use of entropy seems to be adequate.
- We plan to extend the experiments with more complex approaches.





# Thanks for your attention

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