

- In-class assignment (groups of 2 students)
- Send presentation slides (up to 10 minutes) by 13th April at 17:00
- Implementation of a basic CBIR using Lucene
- This assignment's mark is the 25% of the course mark



- Assignment mandatory:
 - a)
 - OCR obtain text from images
 - tesseract
 - Try to optimize extraction using layouts (structure information like author, abstract, etc)
 - Dataset : https://marg.nlm.nih.gov/files.html
 - b)
 - Lucene index image descriptions obtained



- Assignment Optional
 - a)
 - DICOM obtain text from image headers
 - Dcm2che
 - imageJ
 - Try to structure image descriptiond from study
 - Dataset : http://www.osirix-viewer.com/datasets/

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- Assignment Optional
 - b)
 - Metadata-Extractor https://drewnoakes.com/code/exif/
 - structure information for Lucene
 - Dataset : use camera photos / flickr dataset

c)

- Basic color and shape descriptors i.e. histogram …
 - structure information for Lucene
- Dataset : use camera photos / flickr dataset



- AssignmentOptionald)
 - Integrate indexing of DICOM images and OCR using SOLR