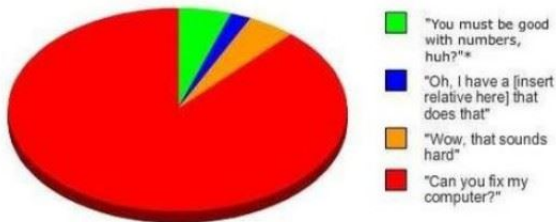


## Other People's Responses to the fact that I am a Computer Science Major



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# Binarization of the Minutes of the Early Synod Meetings of the Reformed Churches in South-Africa

Zander Labuschagne

Supervisors: Prof. G.R. Drevin & Mev. S. Campher

## Research Proposal for Binarization of Historical Handwritten Documents

- ▶ Problem Statement and Substantiation
- ▶ Research Aim
- ▶ Research Objectives
- ▶ Methods of Investigation
- ▶ Review

- ▶ Binarization as First Objective in Document Image Processing
- ▶ Importance of Binarization
- ▶ Existing Research on Historical Handwritten Document Binarization
- ▶ Document Binarization vs Historical Document Binarization

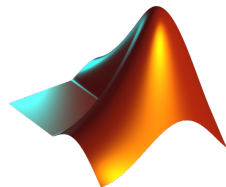
- ▶ Binarization as First Objective in Document Image Processing
- ▶ Importance of Binarization
- ▶ Existing Research on Historical Handwritten Document Binarization
- ▶ Document Binarization vs Historical Document Binarization
- ▶ **Determine which binarization algorithm is best suited for the binarization of historical handwritten text on degraded paper.**

**Propose a binarization algorithm best suited for the binarization of historical handwritten documentation.**

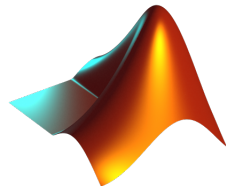
- ▶ Literature Study:
  - ▶ Thresholding Techniques
  - ▶ Binarization Algorithms
  - ▶ Evaluation of Document Image Binarization



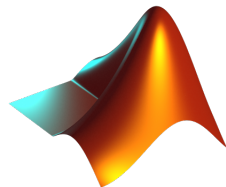
- ▶ Literature Study:
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- ▶ Familiarization with MathWorks MATLAB



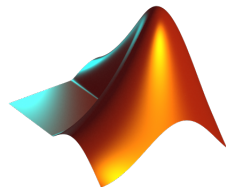
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  - ▶ Binarization Algorithms
  - ▶ Evaluation of Document Image Binarization
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- ▶ Performance Analysis on Thresholding and Binarization



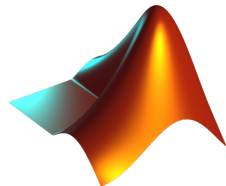
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- ▶ Improve Existing Binarization Algorithm(s)



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- ▶ Improve Existing Binarization Algorithm(s), **OR**  
Design New Binarization Algorithm If Opportune



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  - ▶ Thresholding Techniques
  - ▶ Binarization Algorithms
  - ▶ Evaluation of Document Image Binarization
- ▶ Familiarization with MathWorks MATLAB
- ▶ Performance Analysis on Thresholding and Binarization
- ▶ Improve Existing Binarization Algorithm(s), **OR**  
Design New Binarization Algorithm If Opportune
- ▶ Evaluate and Implement Binarization Algorithm of Choice



- ▶ Research Methodology:
  - ▶ Experimental Computer Science Methodology
- ▶ Algorithm Performance Analysis
- ▶ Algorithm Design
- ▶ Binarization Result Evaluation

- ▶ Problem Statement and Substantiation
- ▶ Research Aim & Objectives
- ▶ Methods of Investigation

# Questions

