Open WebSearch
Hackathon Graz
Team Nr. 3
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Open Web Search
Funded by
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SUPPORTED BY
NGI

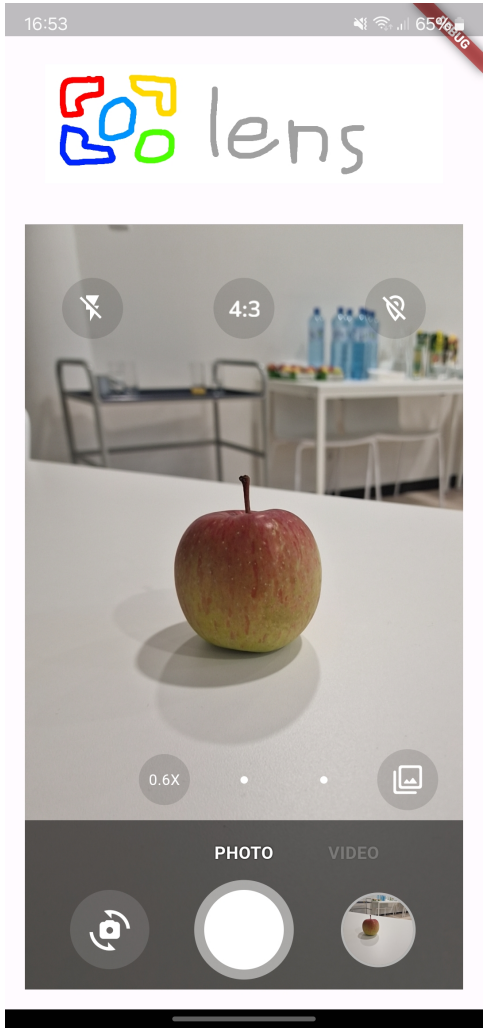
OVERVIEW

- Title: MOSAIC-lens
- Use case:
  - Short description: Google Lens like software
  - Addressed problem: Search using phone camera
  - Targeted end user: People who want to know something
  - Business opportunities: Gruendungsgarage

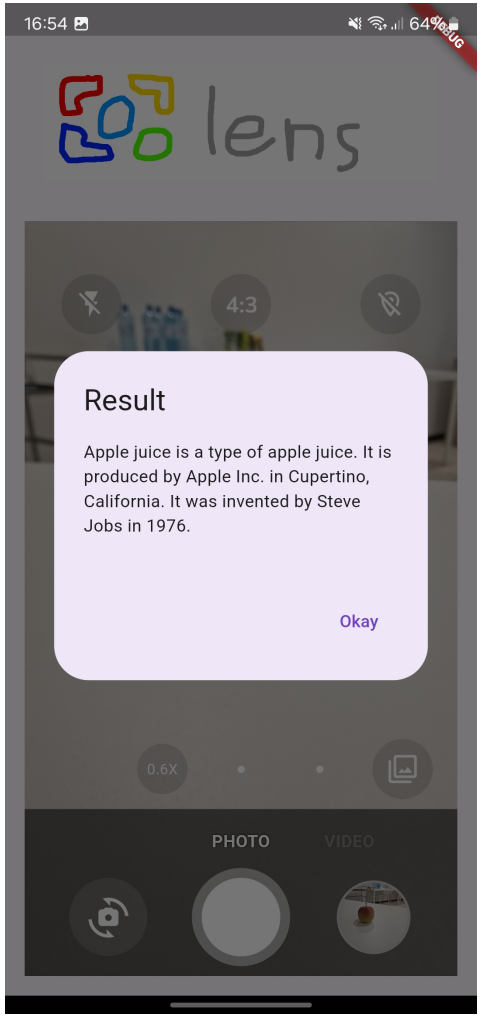
TECHNICAL BACKGROUND

- Development level:
  - Conceptual design: available
  - Development: available
  - Demonstrator: available
- Technical implementation:
  - Used index: existing index
  - Front-end: new front end for android
  - Data analysis performed: yes
  - Search Service: existing one used
  - Large Language model used: yes

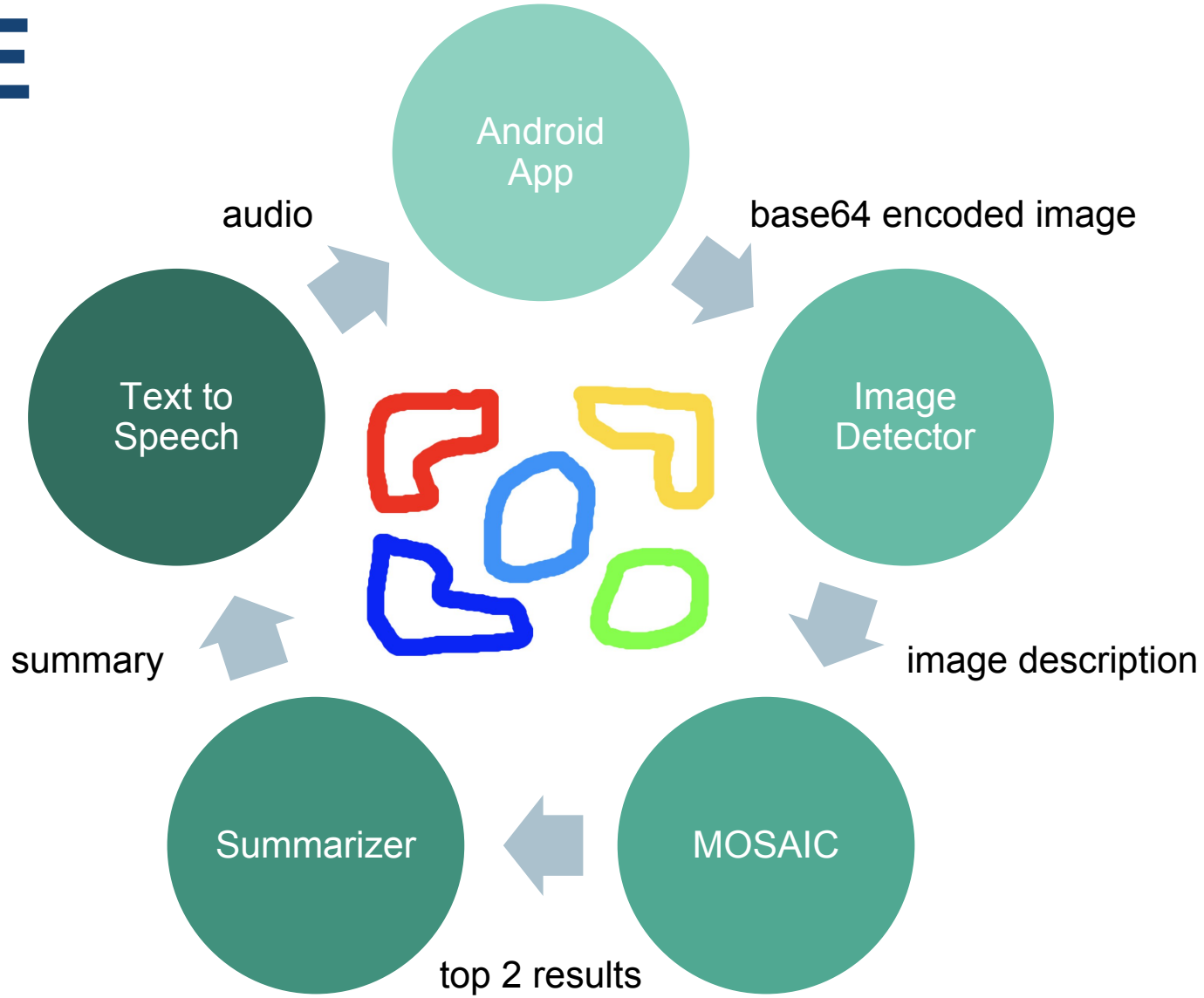
PROJECT PRESENTATION



about 10 seconds



PIPELINE


Android App
base64 encoded image
Image Detector
image description
MOSAIC
top 2 results
Summarizer
summary
Text to Speech
audio

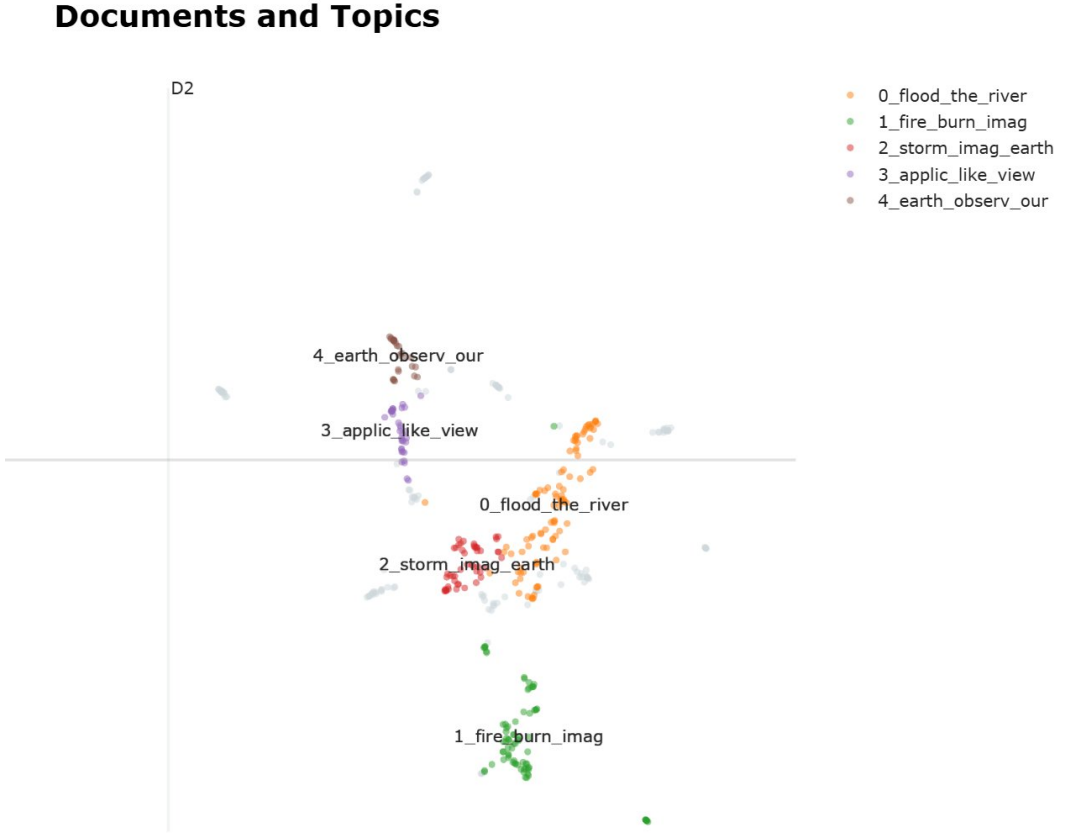
Live Presentation

DLP-Analysis BERTopic

- Dataset: News Articles (focus on environmental catastrophes
- BERTopic Results:

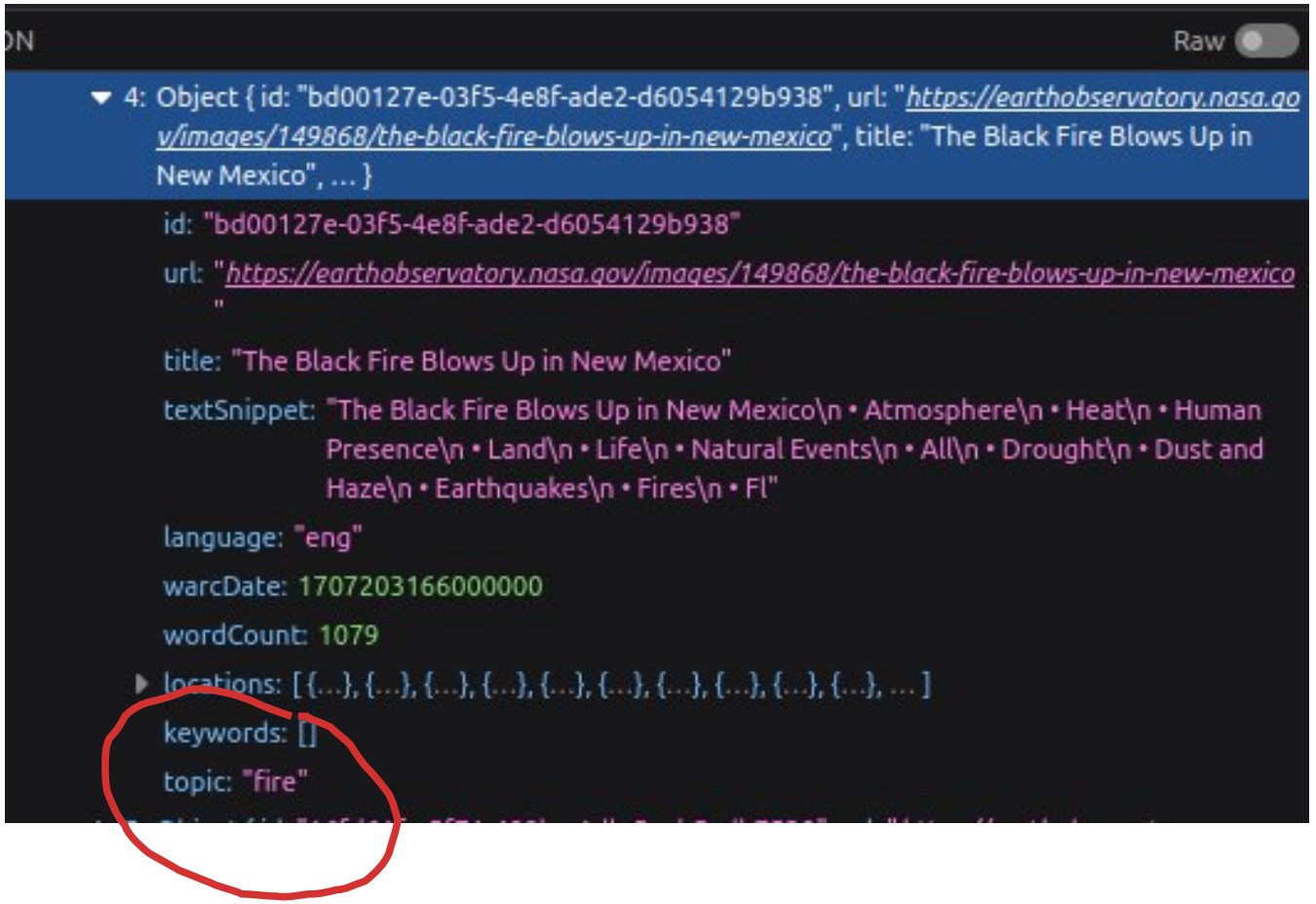
	Topic	Count	Name
0	-1	146	-1_map_global_imag_flood
1	0	97	0_flood_the_river_water
2	1	79	1_fire_burn_imag_nasa
3	2	48	2_storm_imag_earth_nasa
4	3	36	3_applic_like_view_read
5	4	27	4_earth_observ_our_program

- Pipeline:
  Plain-Text →Topic-List→new .parquet file



DLP-Analysis BERTopic

- Can be used for new filtering option
- **Future work**:
  Use the visual tool in combination with a specific topic for better search results and summaries



Thank you for your Attention!
Questions?