LAK Dataset Visualization – v2

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Research questions

- Target:
  - Researchers
  - Conference organizers
- Questions:
  - What subjects are discussed during this conference? (keywords)
  - What other organizations are researching a certain subject?
  - How do conferences evolve over time?
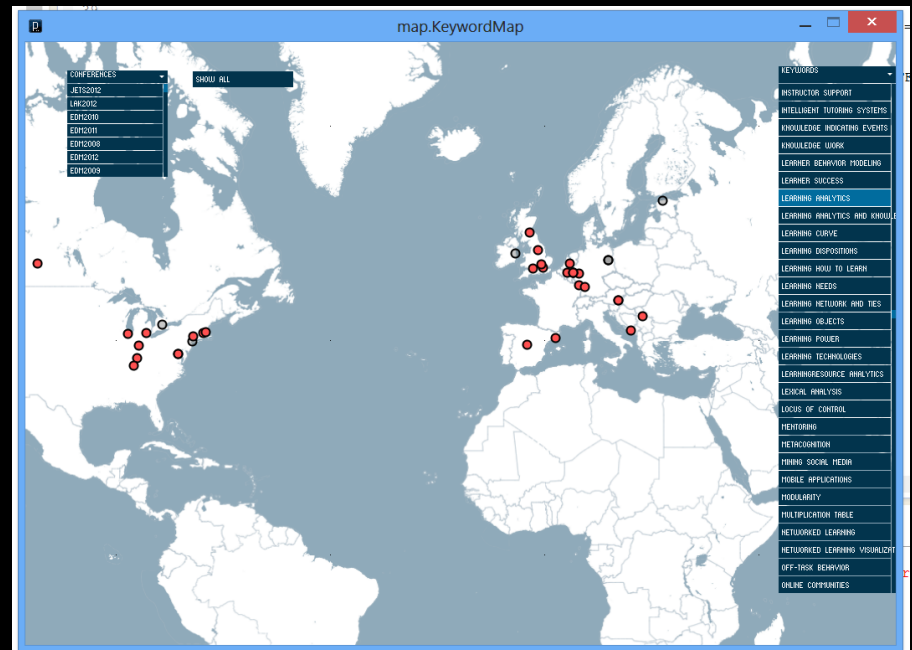 - How do conferences compare to each other?

Possible visualizations

- Common-paper map
  - Our original idea
  - Edges indicate joint research papers between orgs
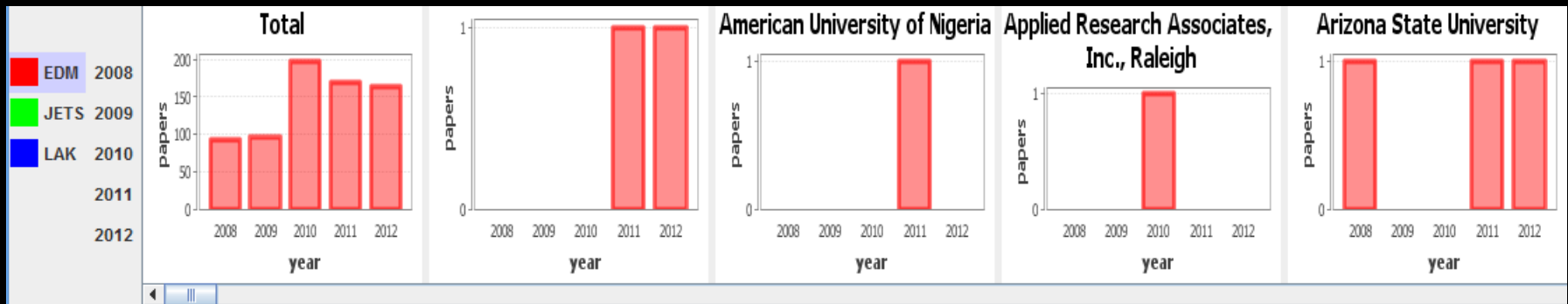 - Thickness indicates amount of common papers

Possible visualizations

- Keyword map
  - List of keywords
  - Show subjects of conference
  - Show orgs of subject
  - Show subjects of org

Possible visualizations

- Barcharts to show:
  - Evolution of #papers conference over time
  - Evolution of #papers of org over time

Possible visualizations

- Aggregate universities to countries when zoomed out far enough
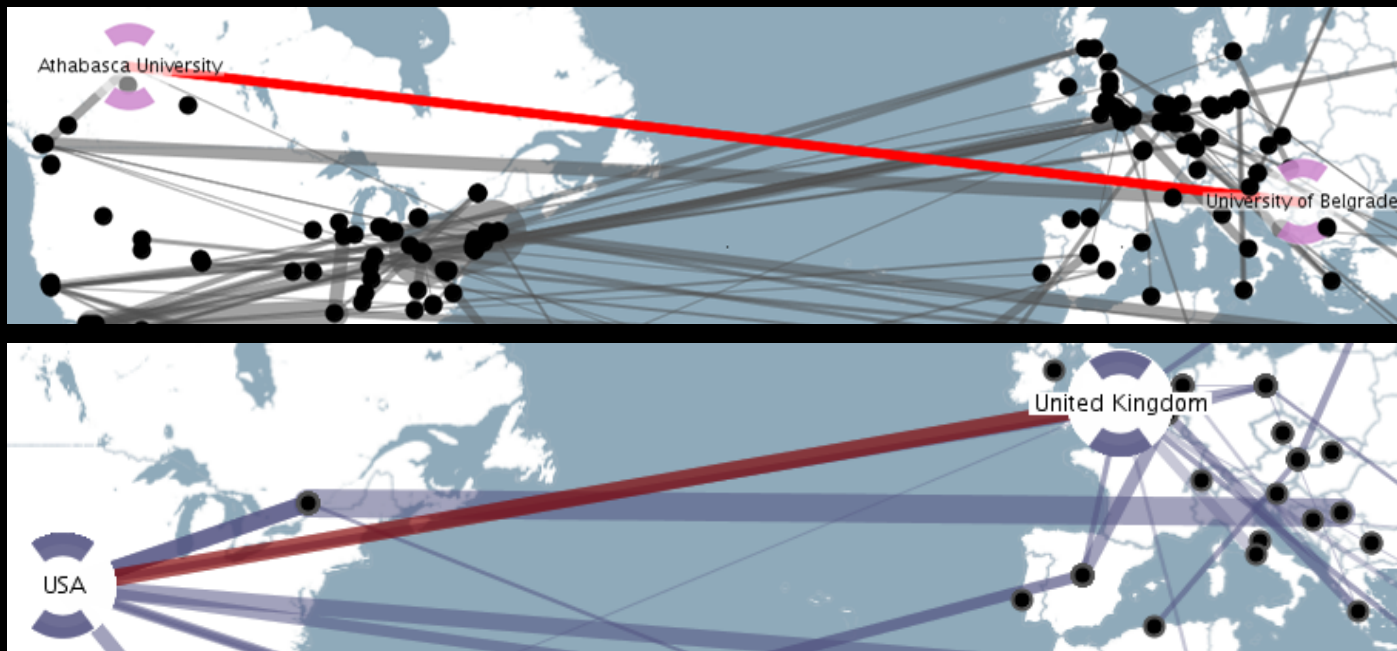
Final choice

- BarCharts + aggregate + common-paper map merged
- KeywordMap separate
  - Keep it that way

Changes in v2 – Barchartmap

- Cached file provider added for performance
- Used different colors just for distinctness
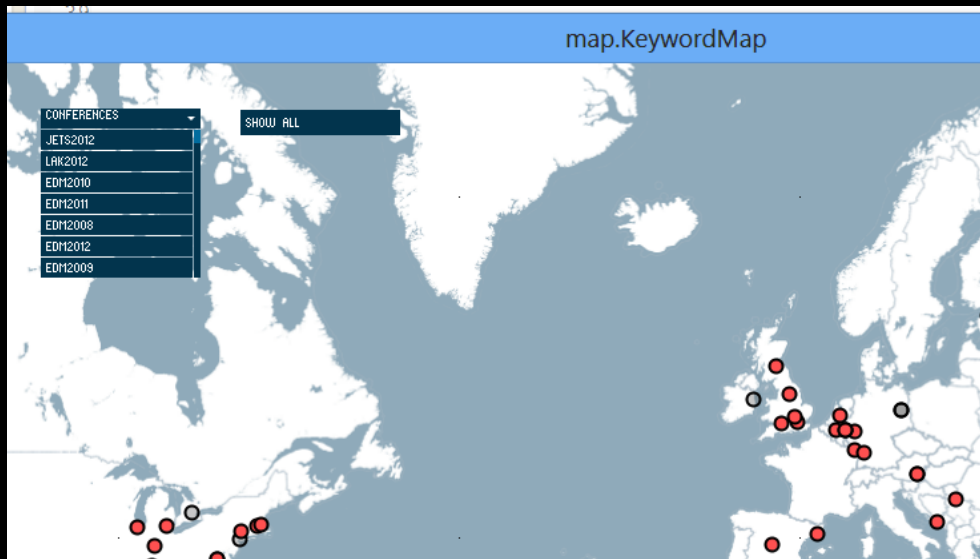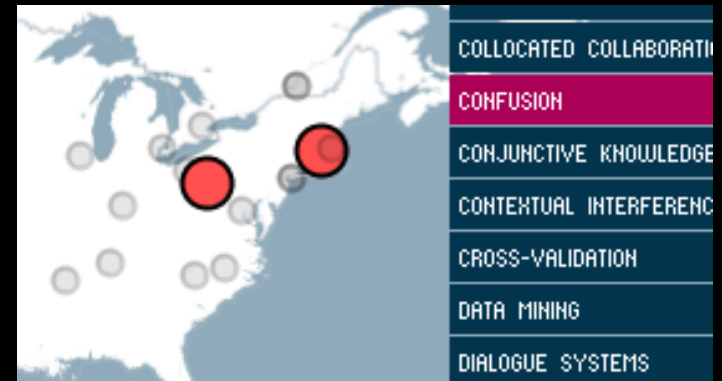 - Red color less flashy

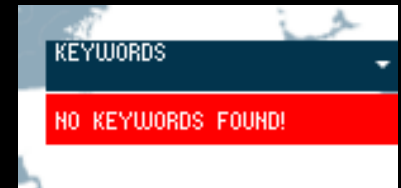v1

v2

Changes in v2 - Keywordmap

- Fixed some selection bugs
- Lists now show what is selected
- Made it more obvious what organisations are highlighted
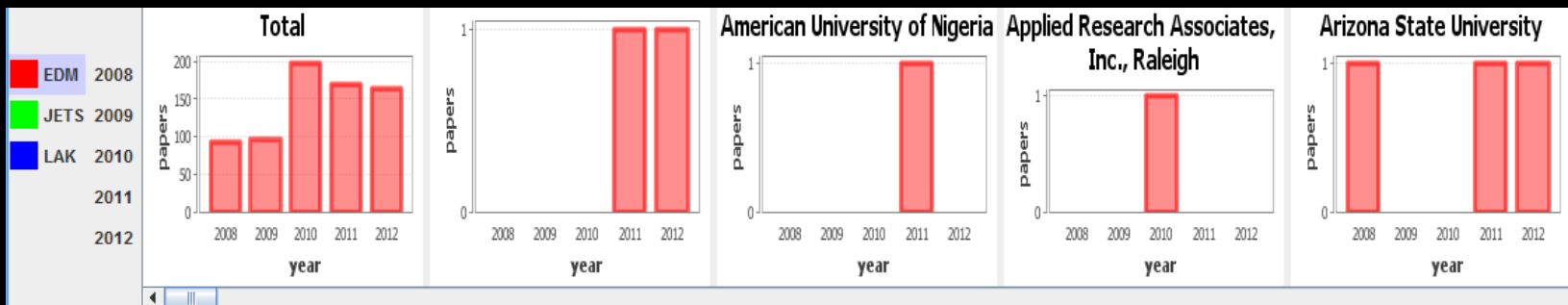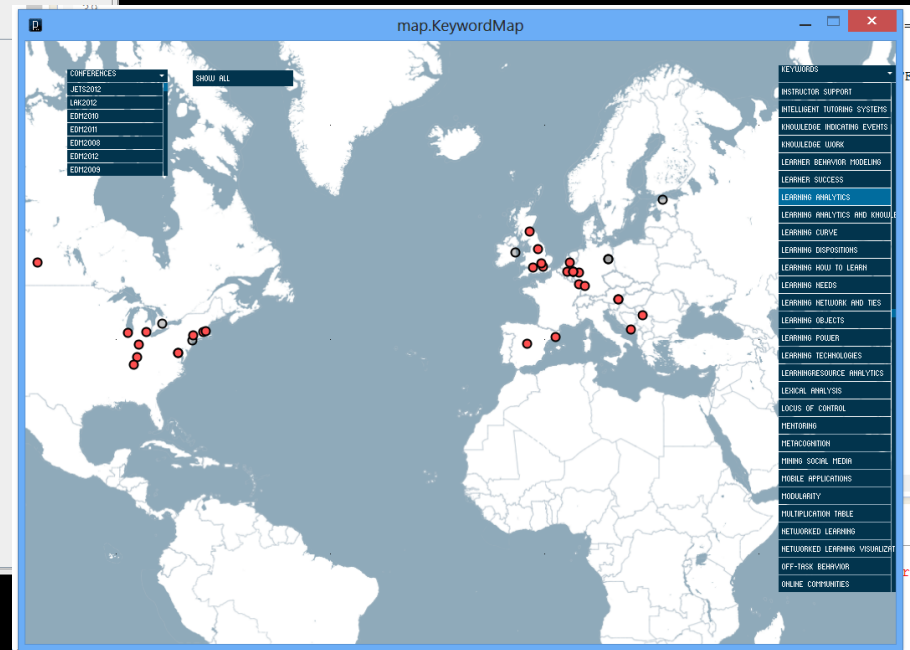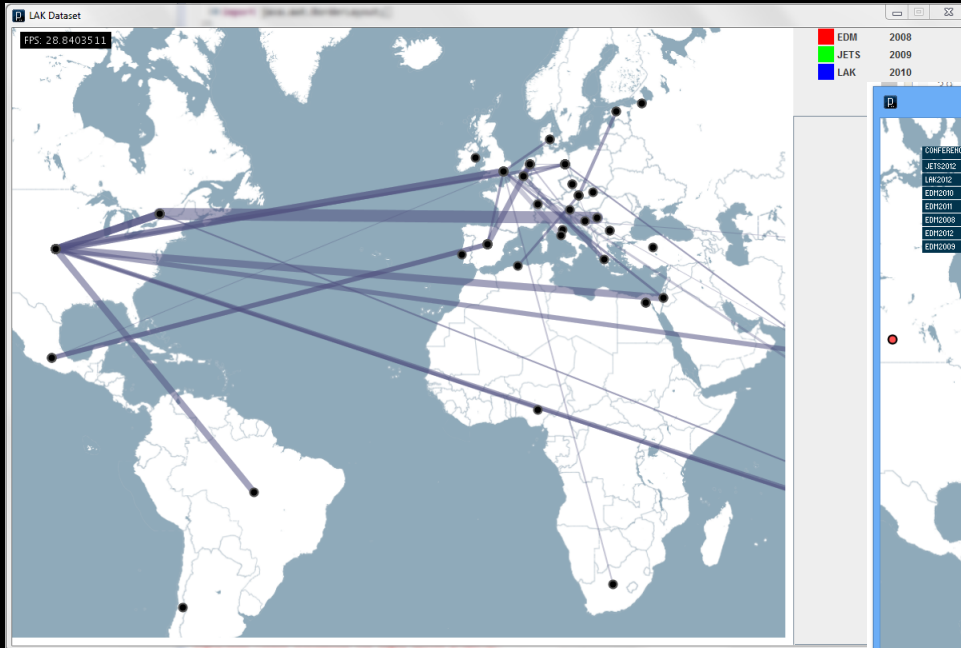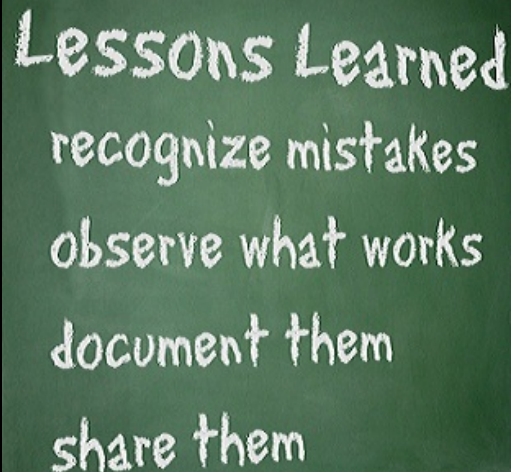- Indication when no keywords were found

V1

V2

Demo

Lessons learned

- The hardest part is looking for good questions to ask (with an interesting result or story)

- ControlP5 does the trick but is far from ideal

- It's easy to get 'something' visualized, but it's hard to get all the details right
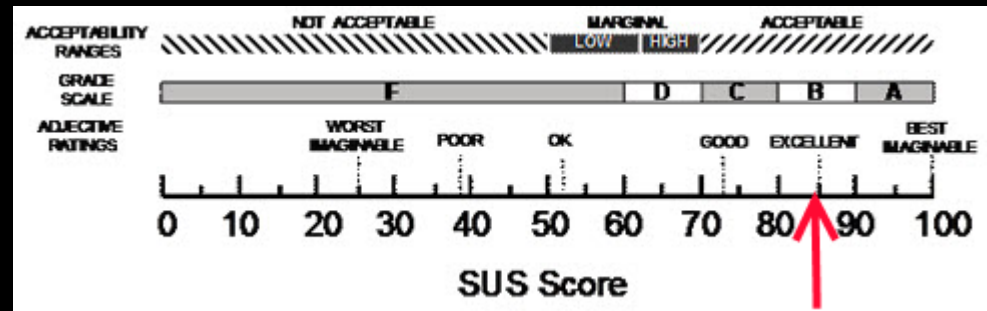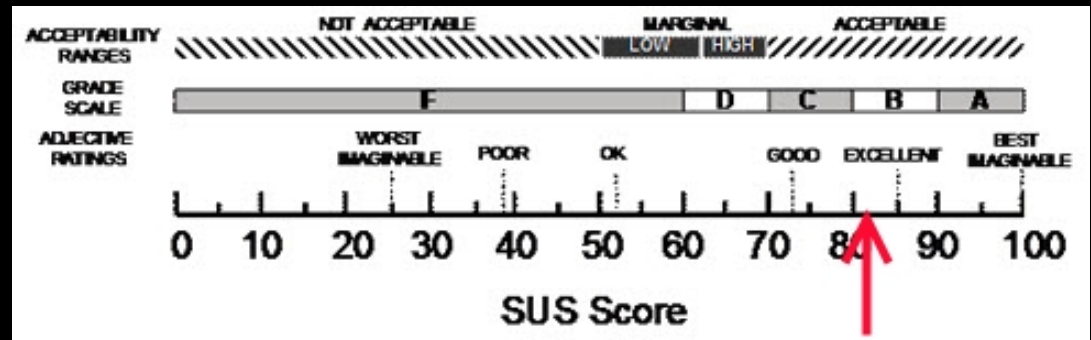
Evaluation

- Keywordmap
  - 84.17

- Barchartmap
  - 80.83

Changes in v3 – Barchartmap

- Added required user interaction
  - When a bar chart is clicked, the map pans to the corresponding organization/country
  - When an organization is clicked, the bar charts panel scrolls to the corresponding bar chart

Teamwork

- Two visualisations:
  - Glenn @ Keyword map
  - Bram & Geert @ Cooperation map
- Went smoothly thanks to git
- Meetings to overview the status of the project

Questions/remarks?