

LAK Dataset Visualization – v2

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Contents

- Research questions
- Possible visualizations
 - Final choice
- Changes in v2
- Demo
 - The Story
 - Technical details and issues
 - Lessons learned
 - Evaluation method

Research questions

Target:

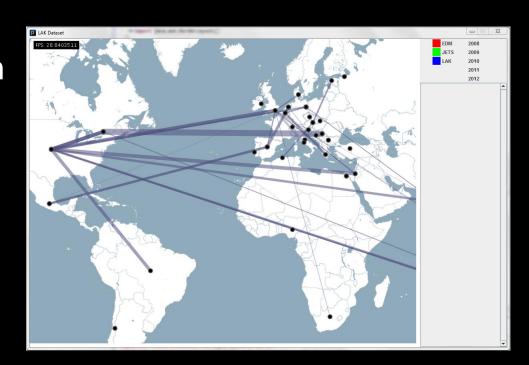
- Researchers
- Conference organizers

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?



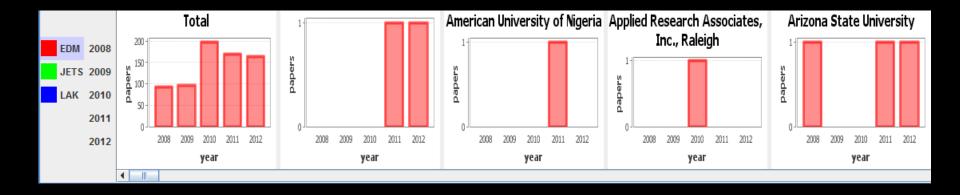
- Common-paper map
 - Our original idea
 - Edges indicate joint research papers between orgs
 - Thickness indicates amount of common papers



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



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



 Aggregate universities to countries when zoomed out far enough

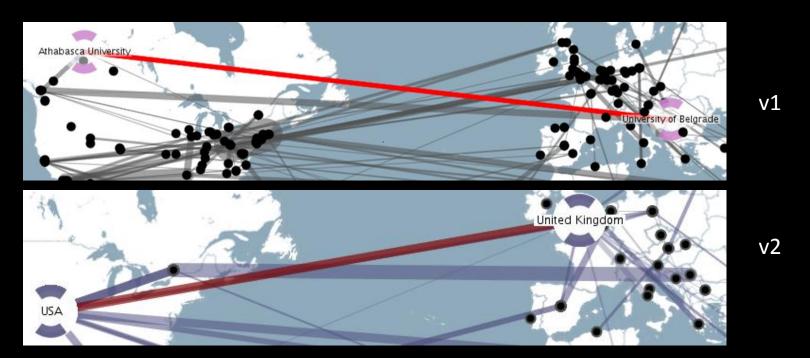


Final choice

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

Changes in v2 – Barchartmap

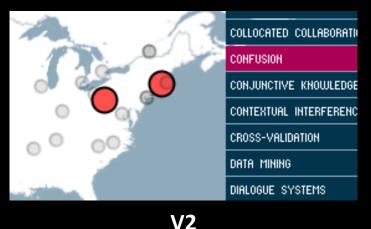
- Cached file provider added for performance
- Used different colors just for distinctness
 - Red color less flashy



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

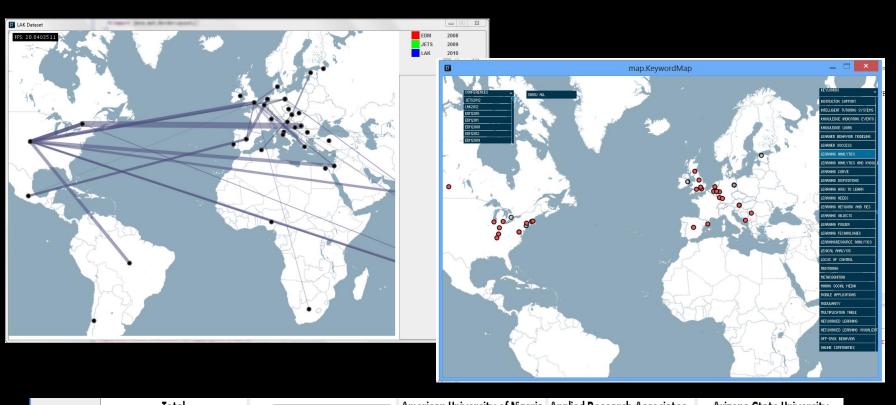


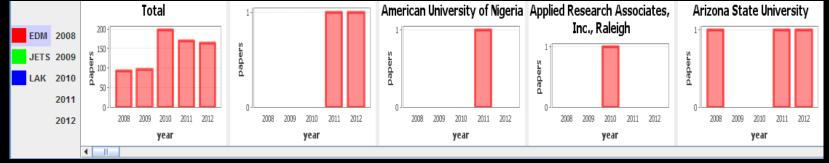


KEYWORDS

NO KEYWORDS FOUND!

Demo





Lessons learned

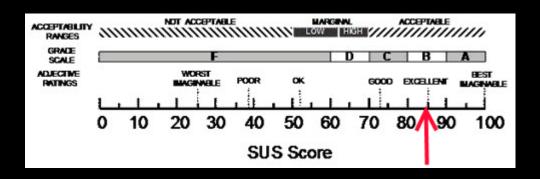
- The hardest part is looking for good questions to ask (with an interesting result or story)
- ControlP5 does the trick but is far from ideal
- It's easy to get 'something' visualized, but it's hard to get all the details right

Lessons Learned recognize mistakes observe what works document them share them

Evaluation

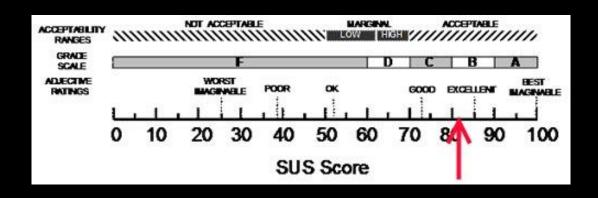
Keywordmap

-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