

Visualization

Other Awesome EDM Visualizations

Other Awesome EDM Visualizations

- Not an exhaustive list
- For obvious reasons



A graph that shows the change in one learningrelated variable over time

Concept and key examples from Arnon Hershkovitz



Learnogram

□ (Schoenfeld, 1992)

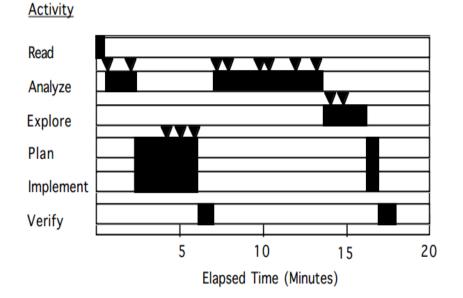
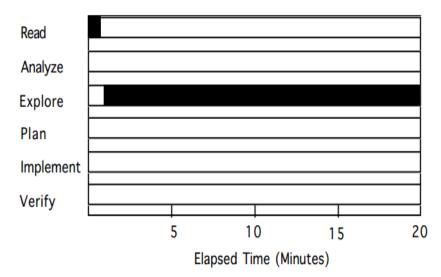
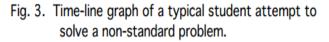


Fig. 4. Time-line graph of a mathematician working a difficult problem

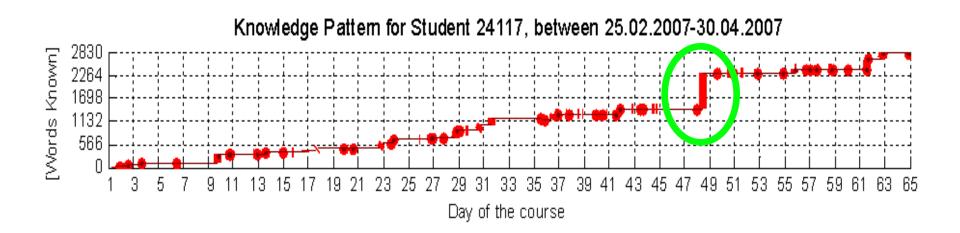
<u>Activity</u>





Learnogram

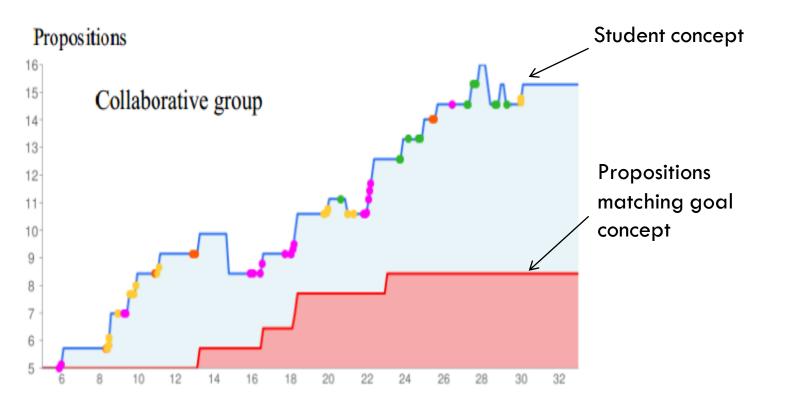
(Hershkovitz & Nachmias, 2009)





Collaborative Learning Learnogram

(Martinez, Kay, & Yacef, 2011)



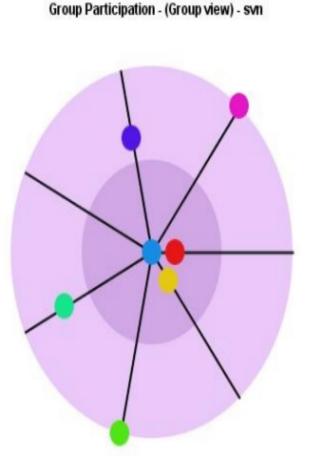




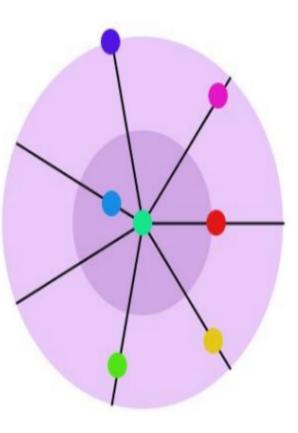


Activity Radar

(Kay, Maisonneuve, Yacef, & Reimann, 2006)



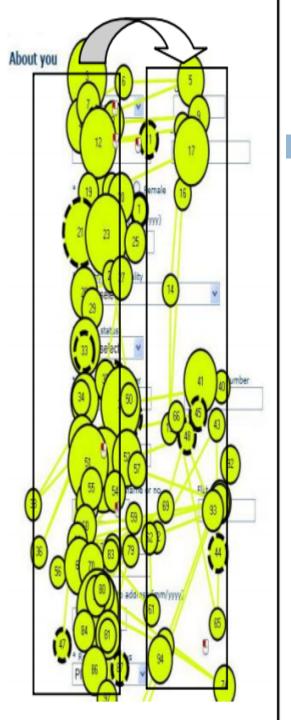
Group Participation - (Group view) - wiki





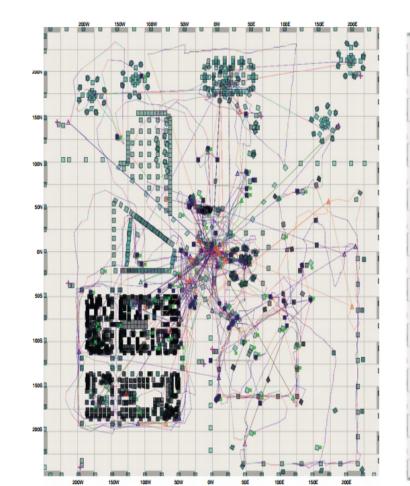


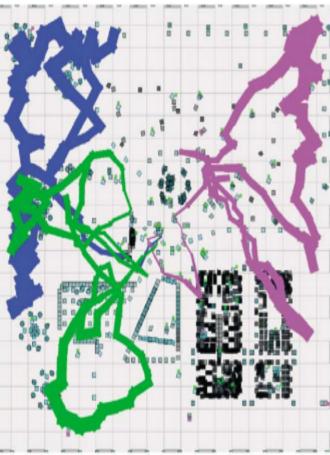
(Das, McEwan, & Douglas, 2008)



Spatial Usage Maps

□ (Borner & Penumarthy, 2003)





Lots of visualizations

 Goal: get information in a meaningful and quickly perceptible way to an analyst, learner, or instructor (or other stakeholder)

- Coolness will impress people
 - But the main question is is it useful?
 - Useful to think about Tufte's principles from first lecture



Clustering and Factor Analysis