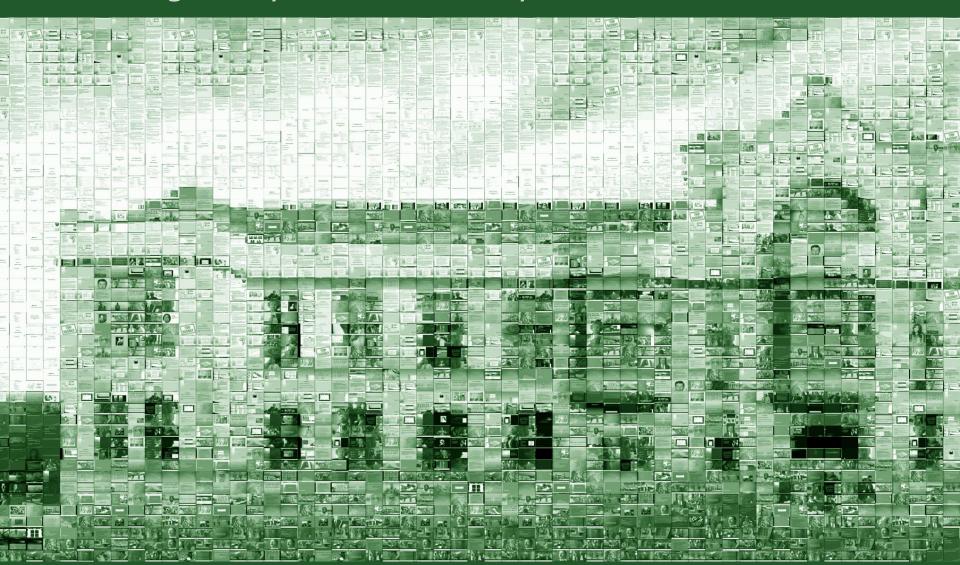
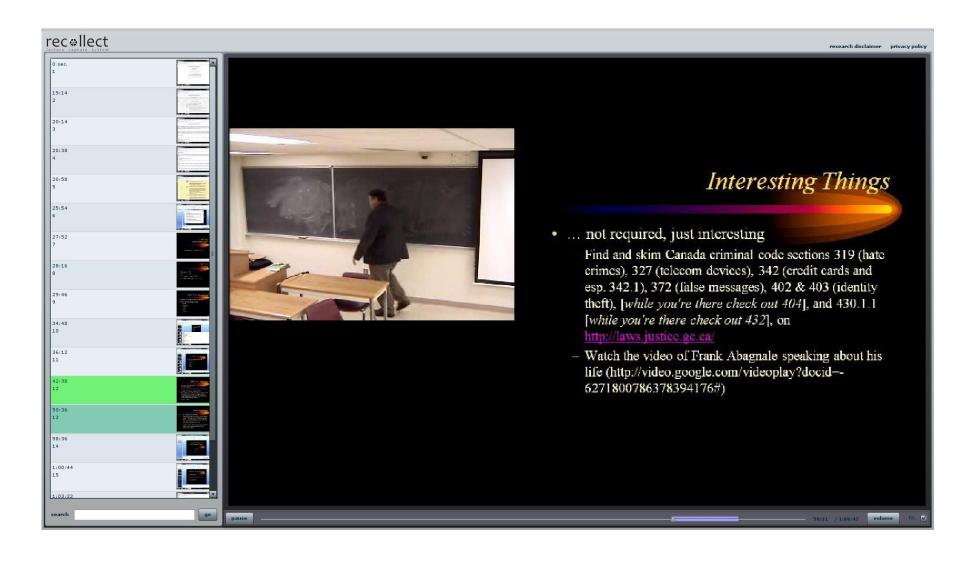
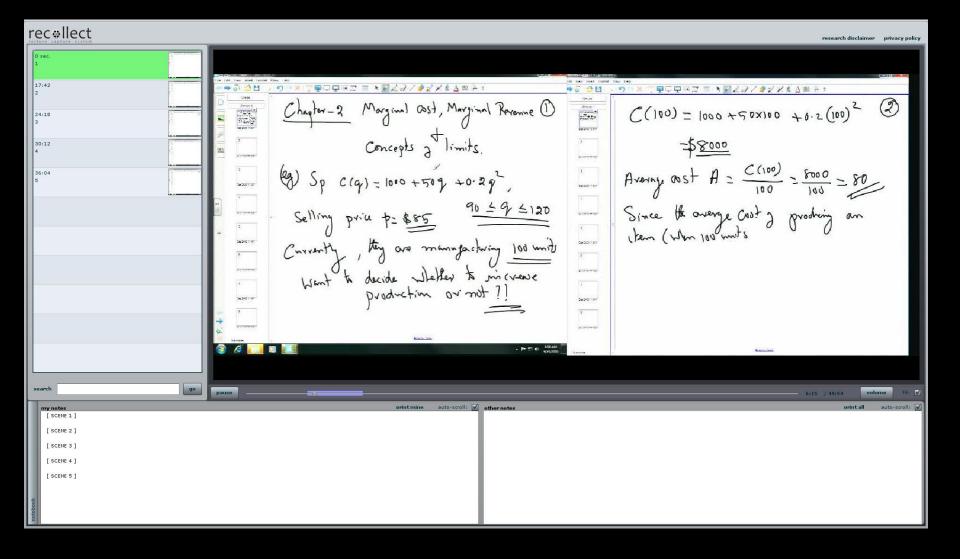
Visualizing Lecture Capture Usage: A Learning Analytics Case Study



Christopher Brooks, Craig Thompson, Jim Greer University of Saskatchewan, Canada

environment



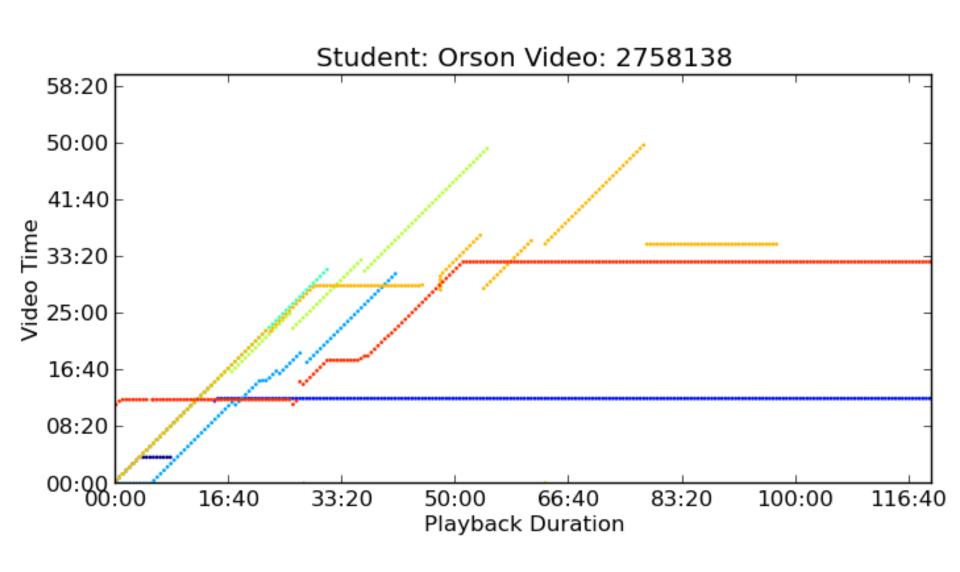


(((Opencast)))

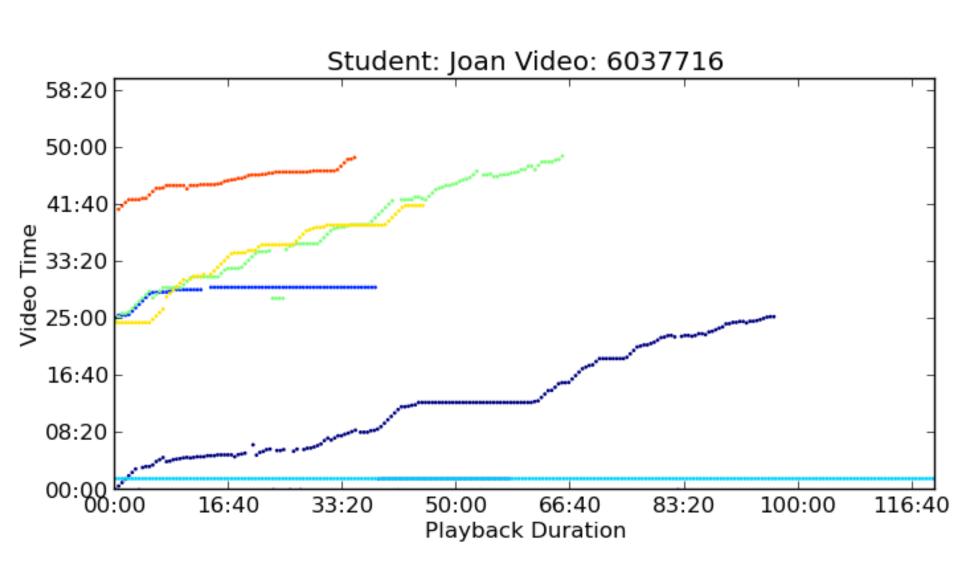
interest 1: rewatching behaviour

- motivated by a correlative link between re-reading discussion forum messages and academic performance
 - does this exist in lecture capture too?
 - how different students review content may offer benefit for identifying learning style

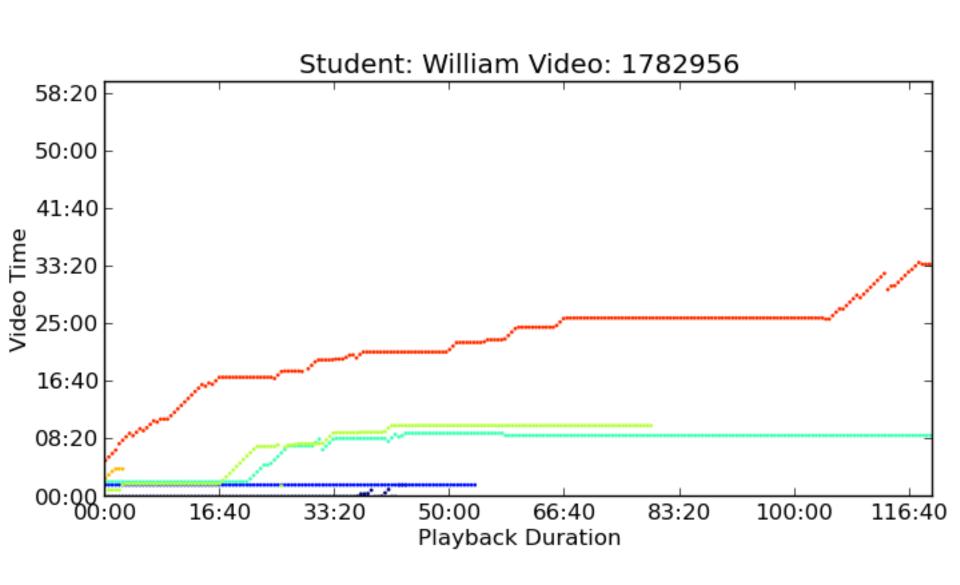
the regular rewatcher



the engaged rewatcher

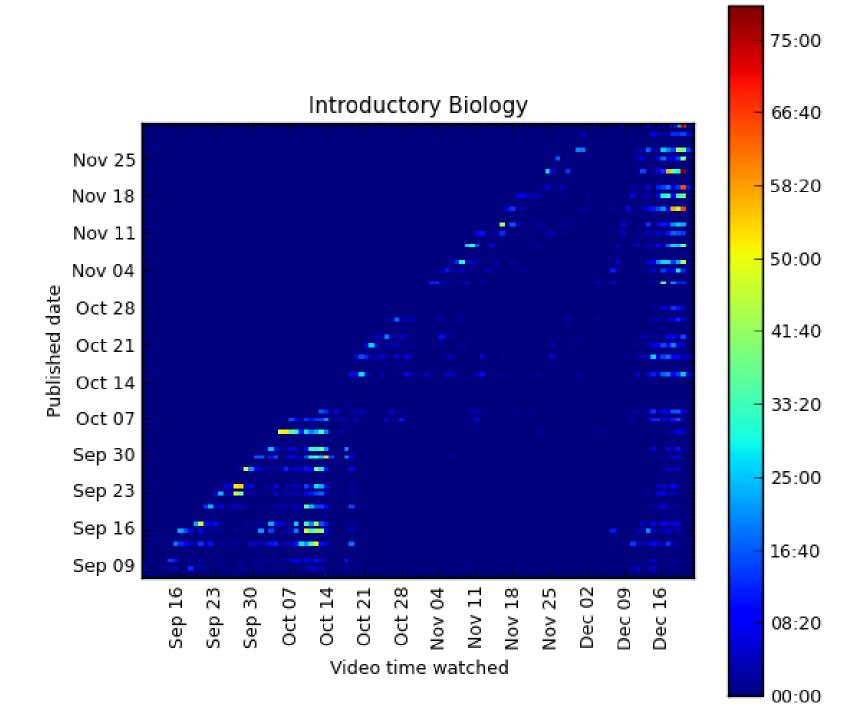


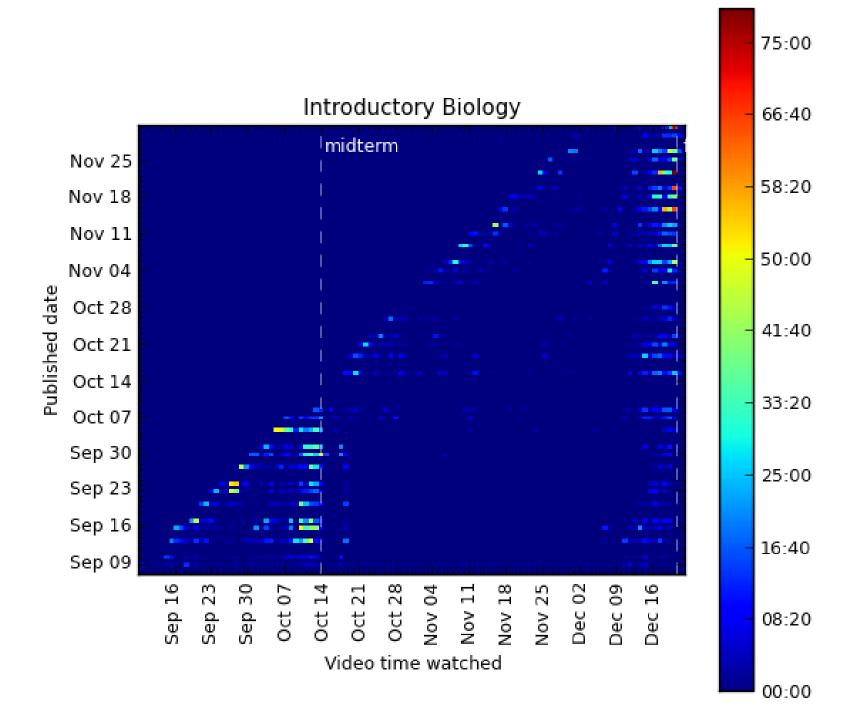
pauser rewatcher

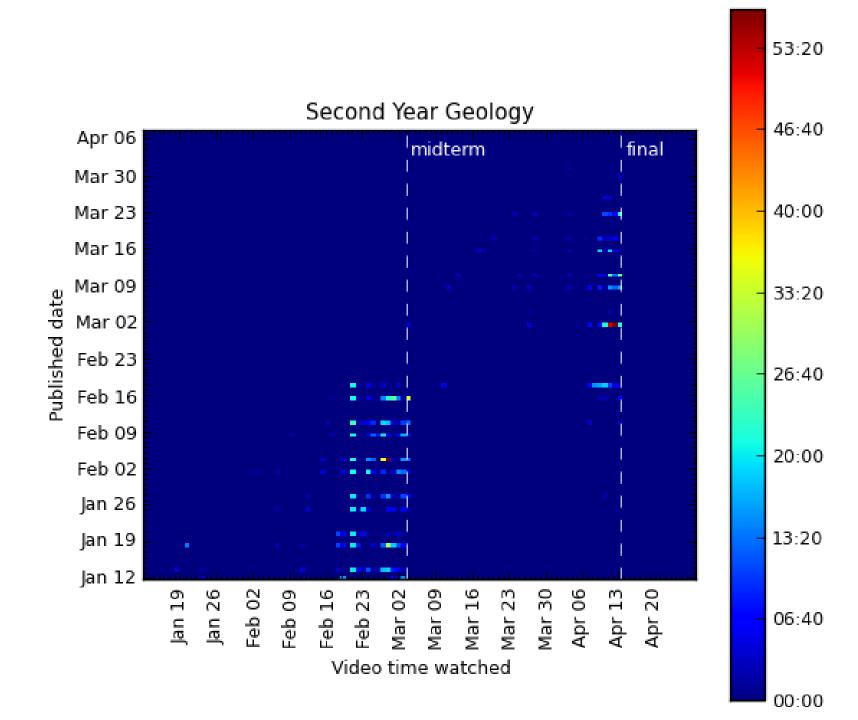


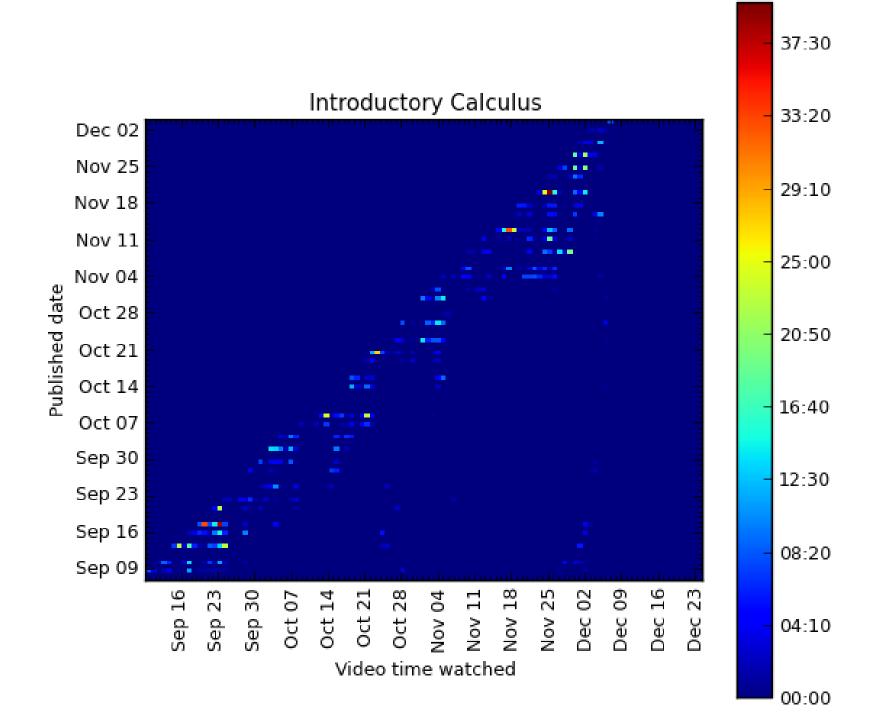
temporal viewership

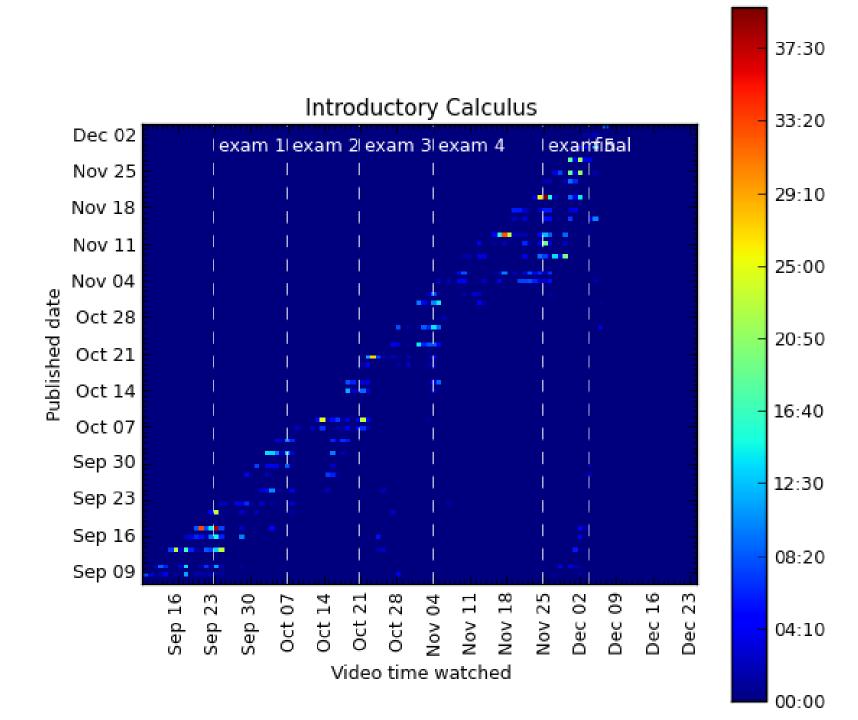
- want to see how learners use a system throughout the term
- motivated by previous investigation that showed correlation between regular viewership and high achievement
- but do students just watch the newest lecture, or are they watching older content?







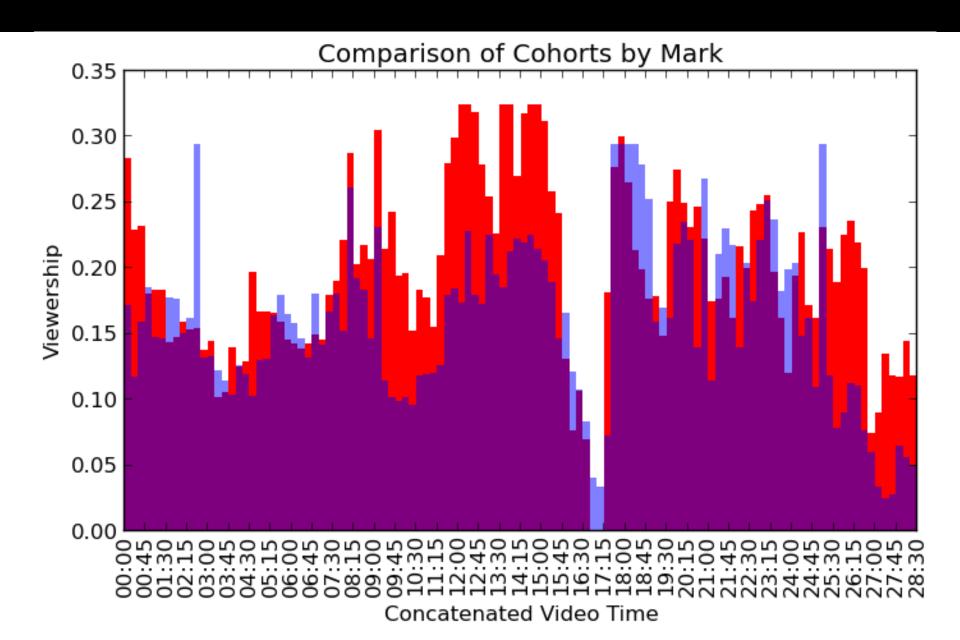




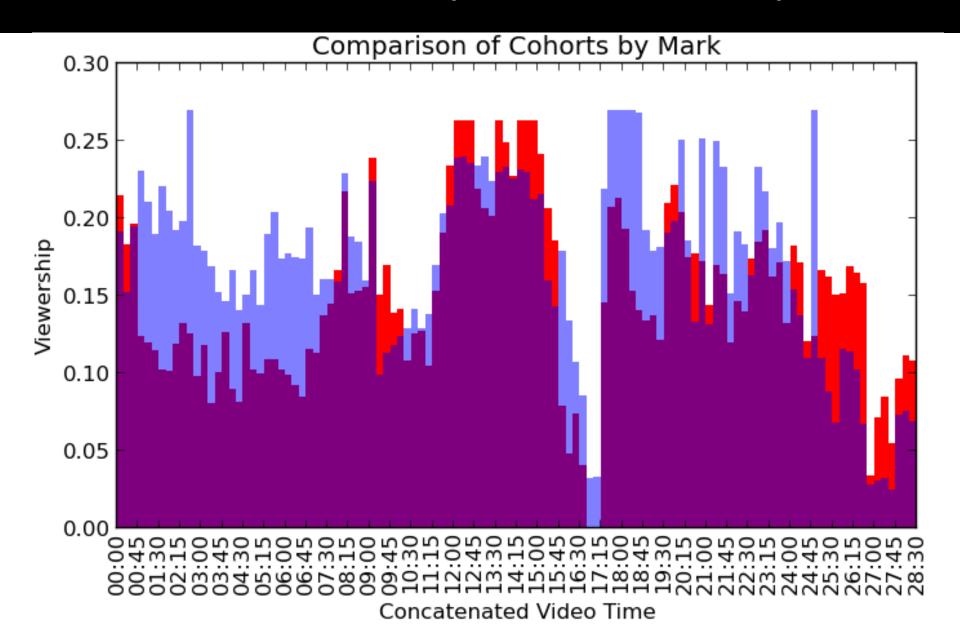
comparing groups

- interested in seeing how different identifiable groups of learners compare with their usage of the system
- do high achieving learners (87.5% or higher) use lecture capture differently than poorly achieving learners (under 62.5% but above 50%)
- the story is...complex

Red, 87.5%+ Blue, 62.5%-



Red, 85%+ Blue, 65%-



conclusions

- thus far this has been data investigation only, no interaction with instructors or instructional designers
 - rewatching is a tough metric to define, the visualizations are a start towards clarifying this
 - heatmaps tell an interesting story, and are likely of interest to instructors
 - unclear how to be convey the difference between groups
 - interested in using this visualization for ESL groups