

EDCT GE2550: DATA SCIENCE IN EDUCATION

Big Data, Learning Analytics & The Information Age

4/8/16 10:37 AM

In the news



March 7-10, 2016 •
Austin, TX



Common Sense Launches Pioneering System to Identify Movies and TV Shows That Teach Character

TEACHERS KNOW BEST

Make Classroom Data More Useful



Three in Four U.S. Teachers Say Open Educational Resources Are Used More Often Than Textbooks

Annual survey results suggest that connectivity and hardware barriers are falling as online sharing enables broad-based adoption of digital resources

Today

In the news

6:45 - 6:50

Quiz

6:50 - 7:00

Twitter

7:00 - 7:10

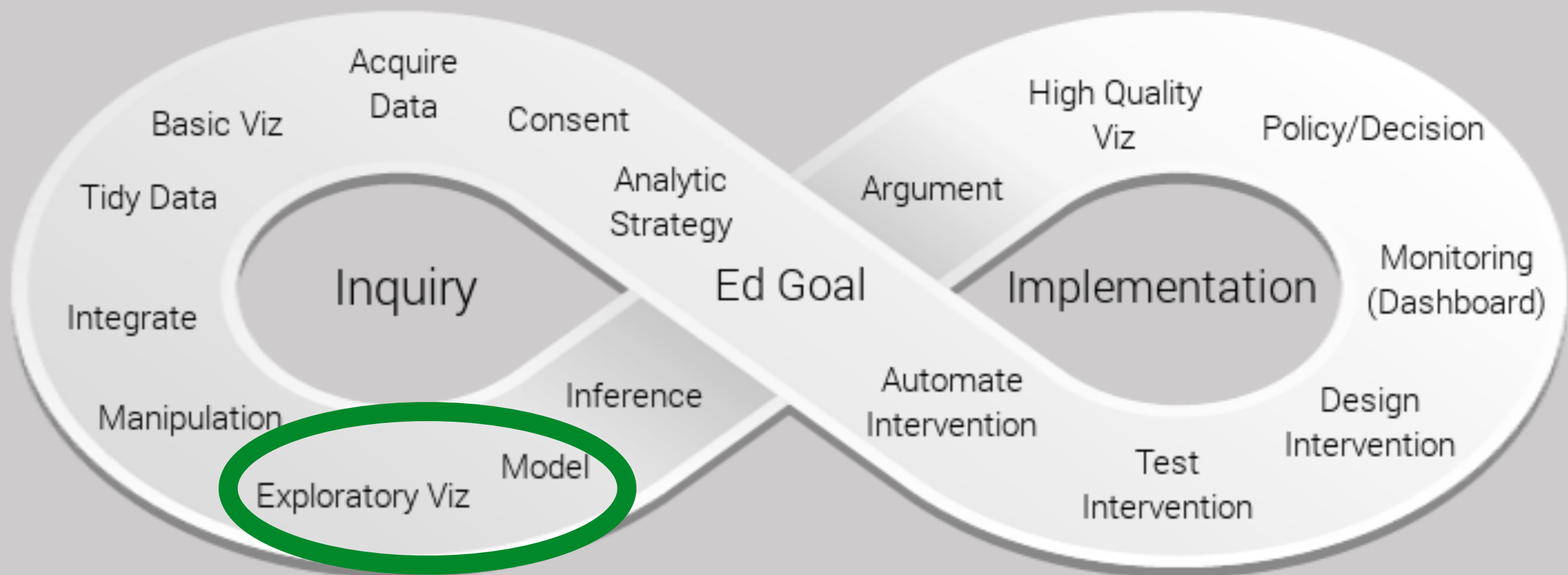
Quiz

7:10 - 7:40

Class Social Network

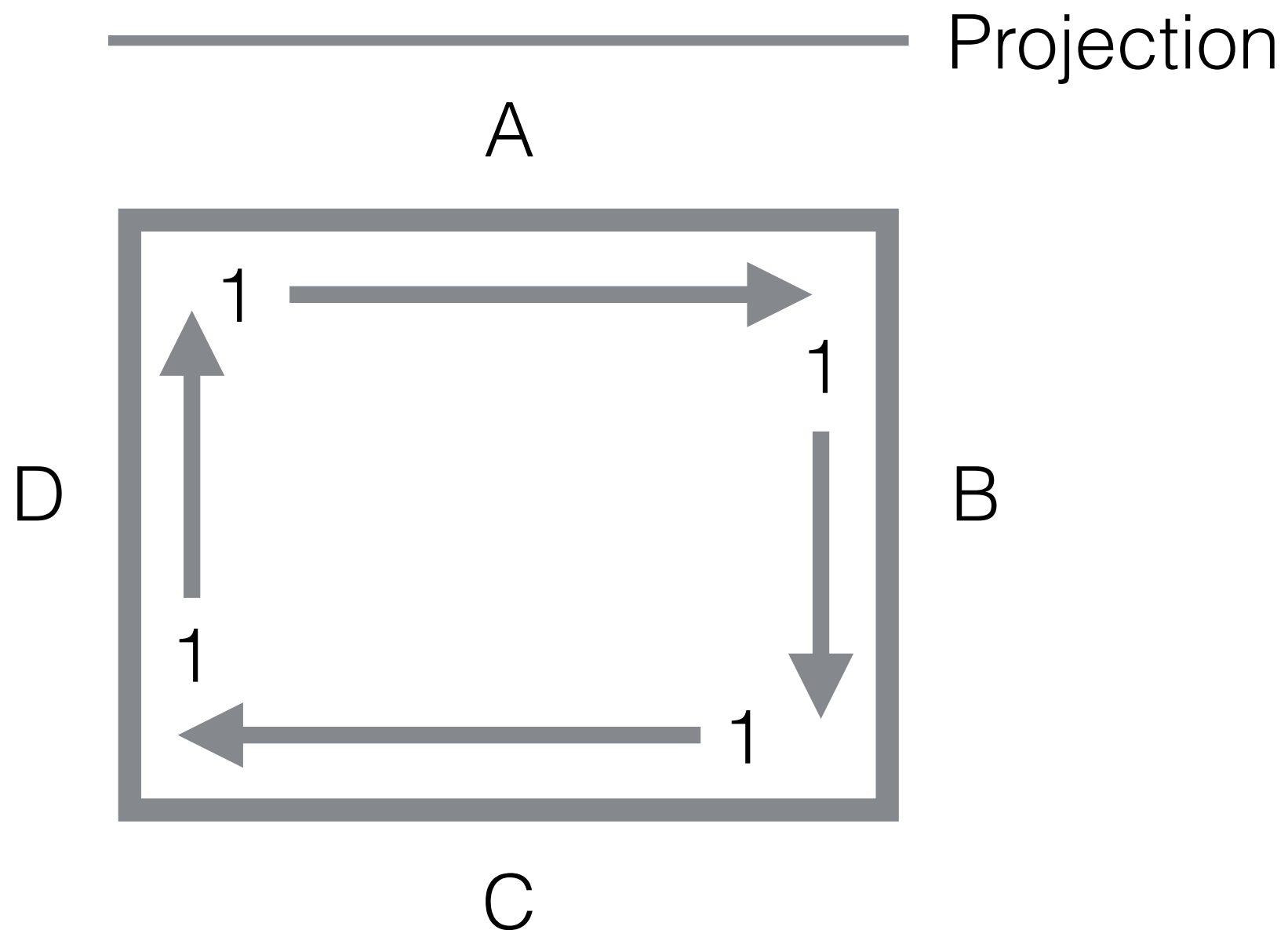
7:40 - 7:50

Ed Data Science Cycle



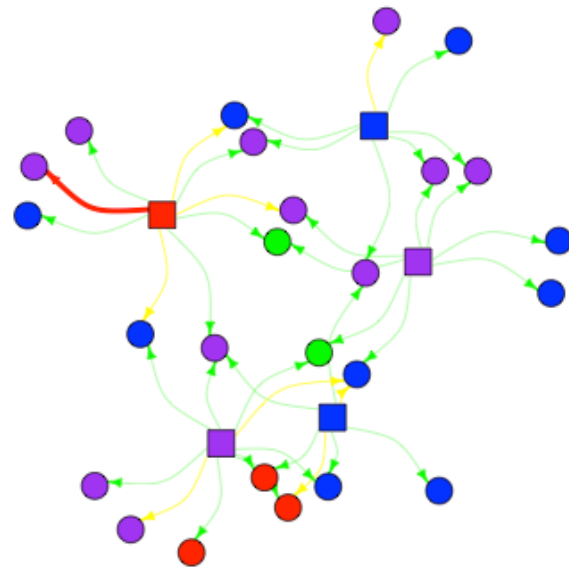
Quiz

<http://bit.ly/1SDevGD>



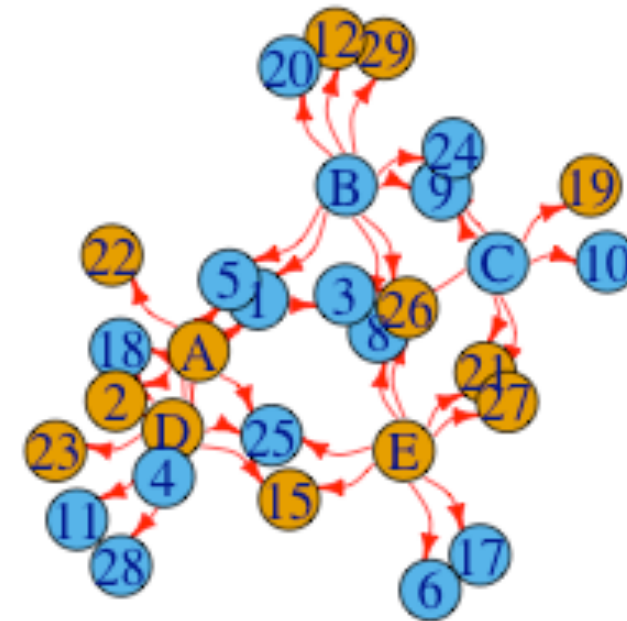
Tyler

Teacher/Student Interaction by Expertise

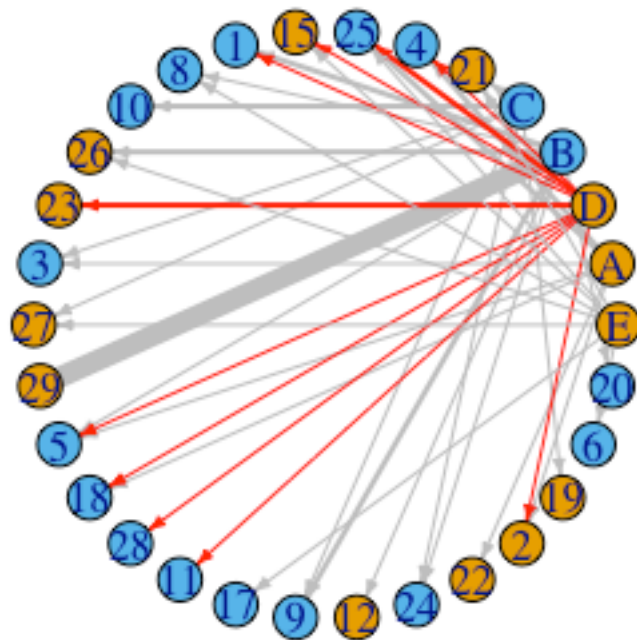


Art:Purple/Bio:Blue/Math:Red/English:Green

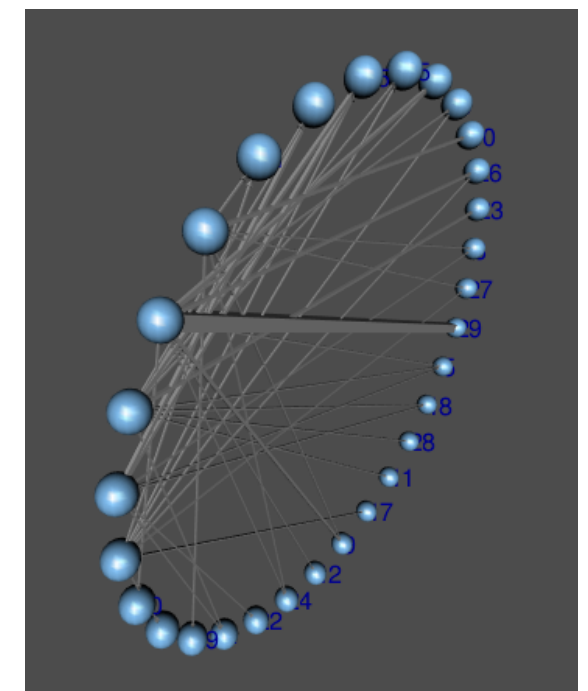
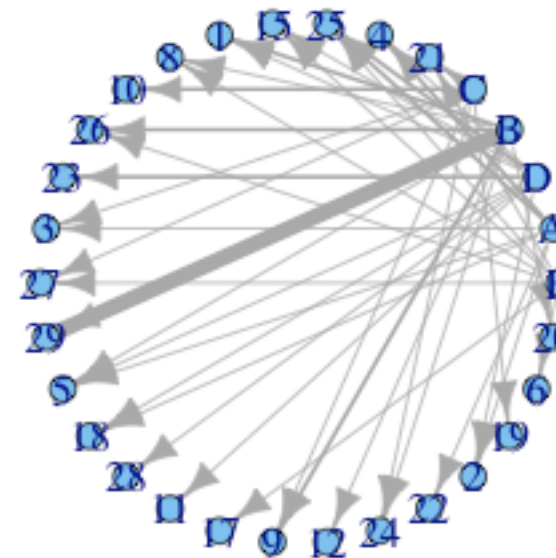
Bhavana

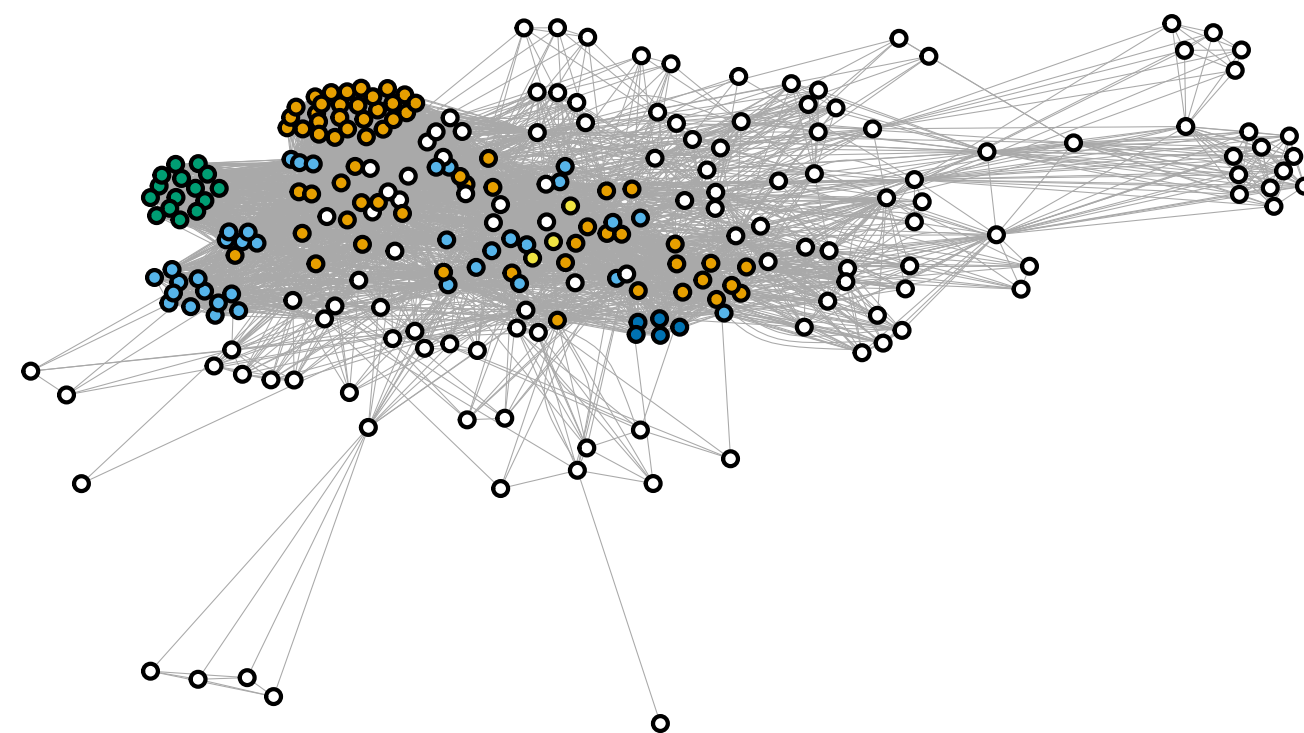
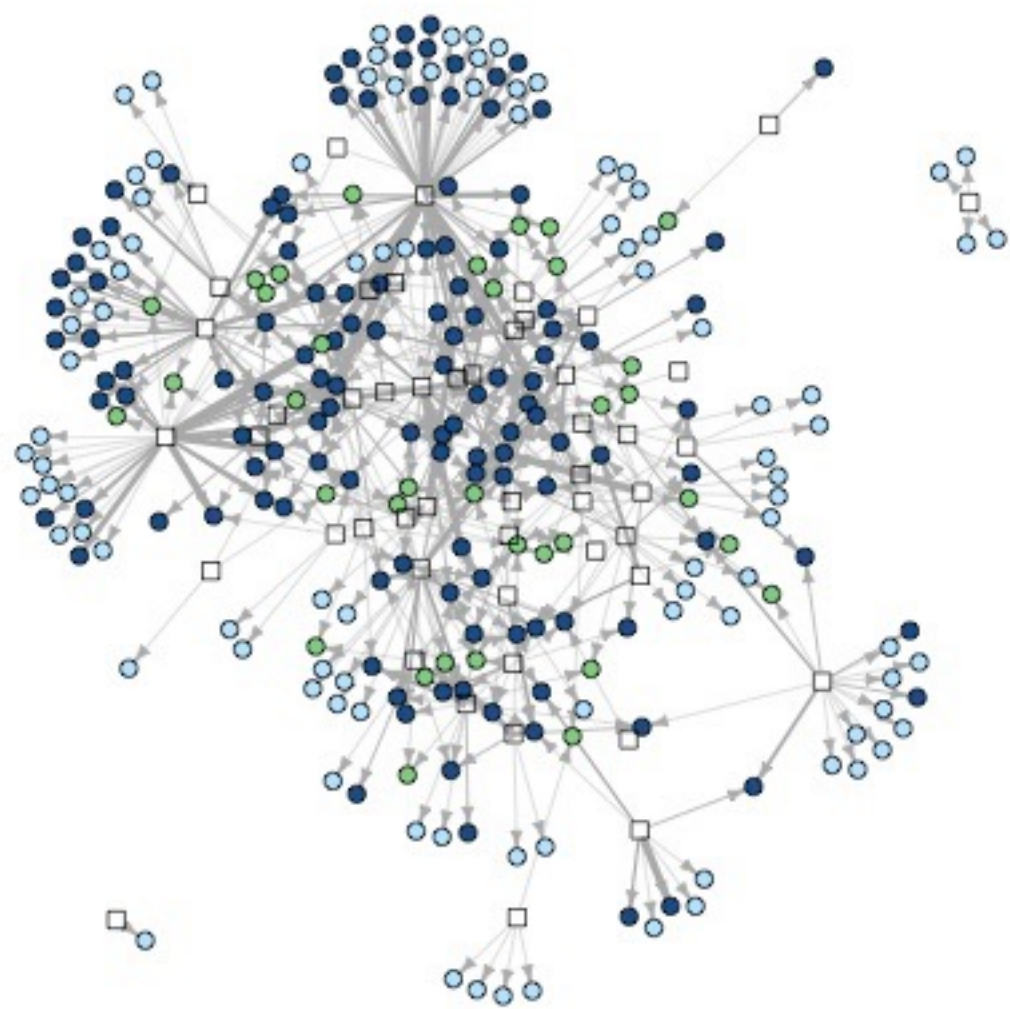


Angie

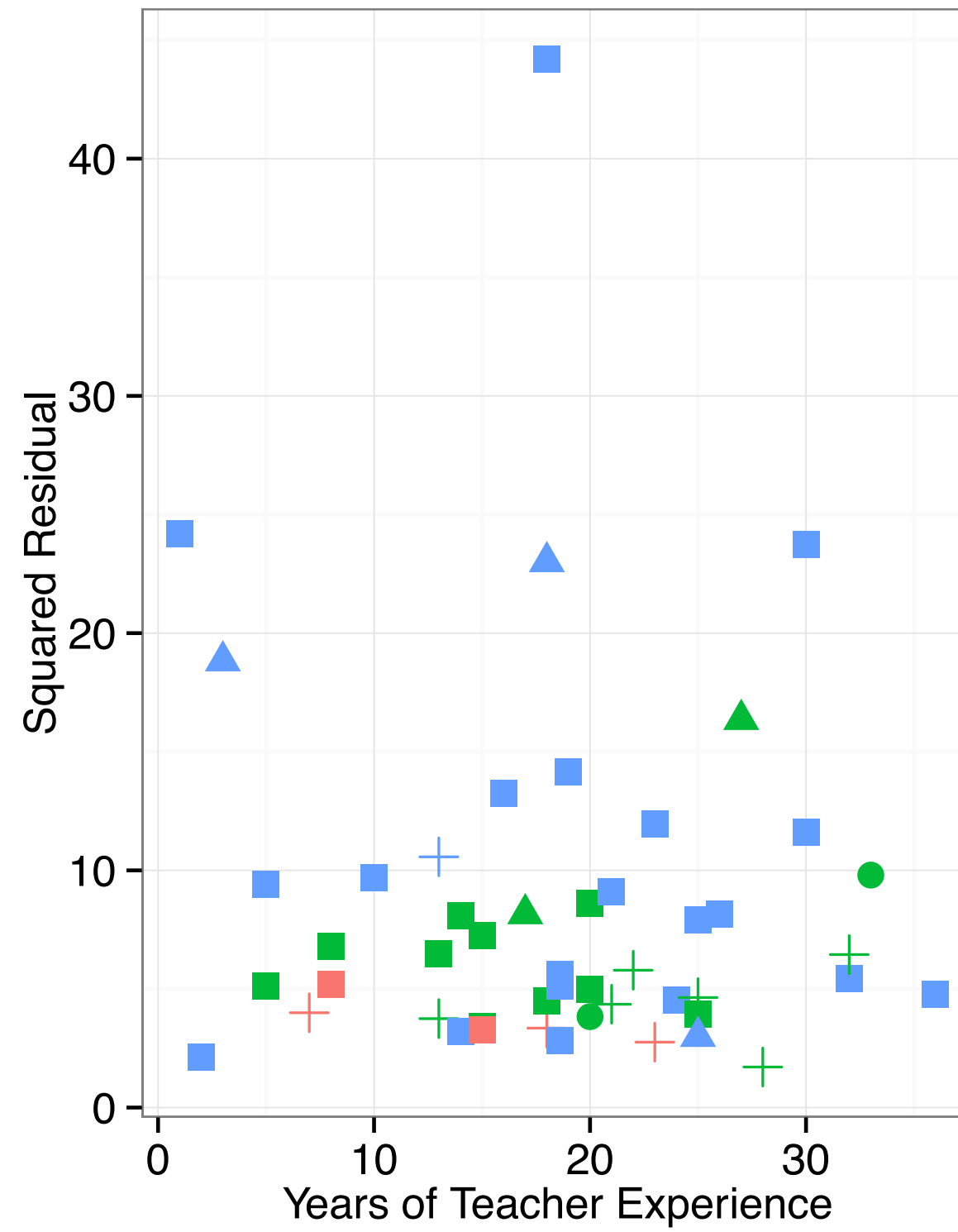


Semih



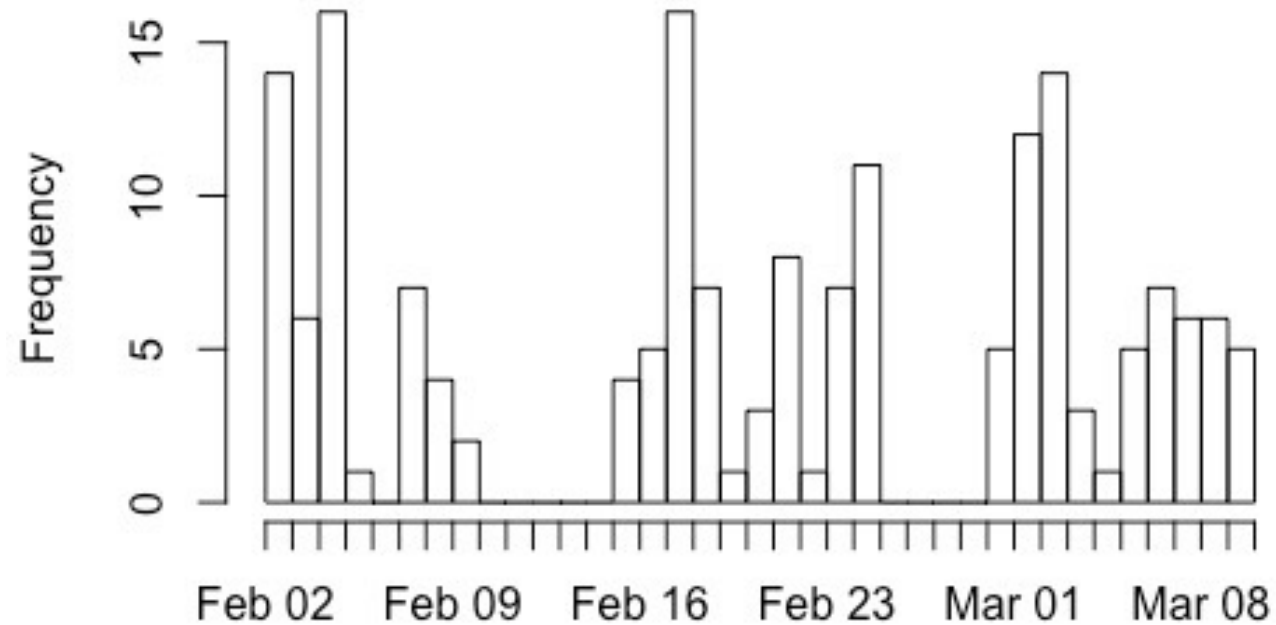


Lang & Liiv, 2015



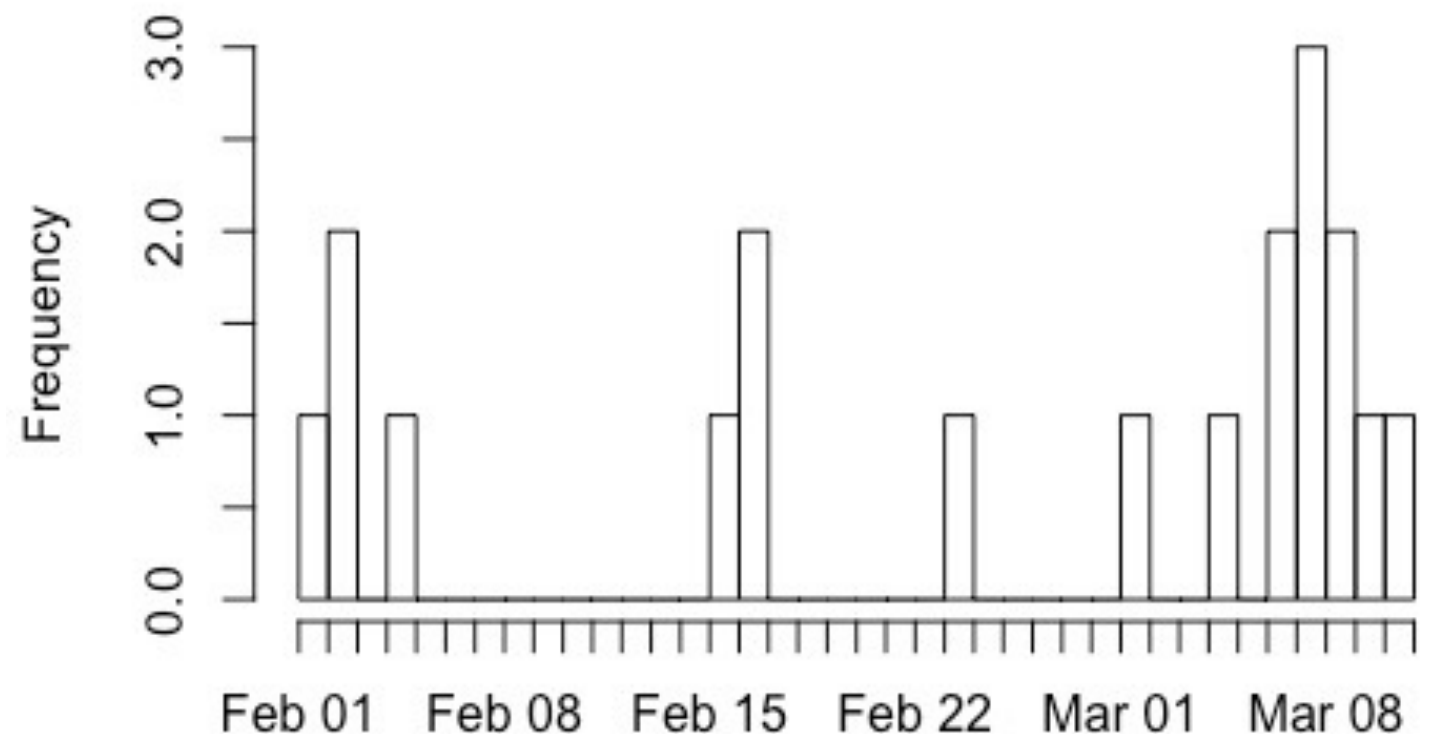
Twitter

Tweet Frequency per Day



- What is the purpose of Twitter in class?
- Did the intervention work?
- What should we try next?

DSE16: Reply Frequency per Day



Questions

- What is the purpose of Twitter in class?
- Did the intervention work?
- What should we try next?

Course-by-Course SNA

<http://bit.ly/1TxJPaE>

Exercise

1. Fork & clone the repo: /data-science-in-ed/In-Class-SNA
2. Create a graph that connects students according to which classes they have in common
 - You will need to re-structure the data to use in igraph
3. Calculate metrics of degree centrality, density and betweenness centrality. Interpret these metrics