CS 225

Data Structures

March 10 – Project Q&A

G Carl Evans

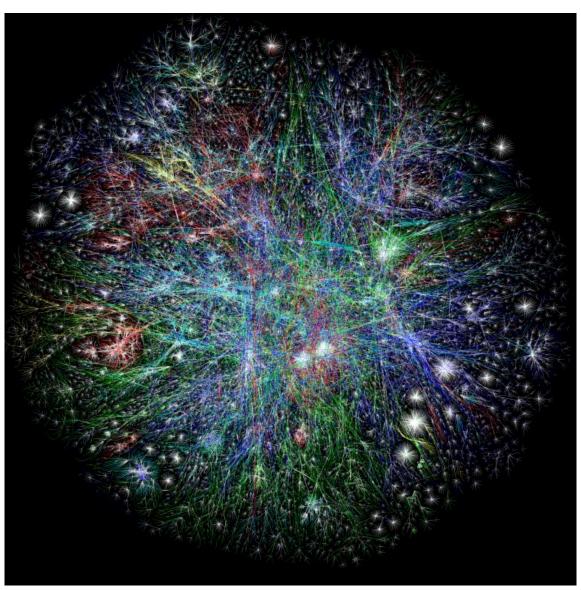
Project Key Points

• Must be a group of 3-5 people

• Must have one major deliverable per person

• Must have a leading question

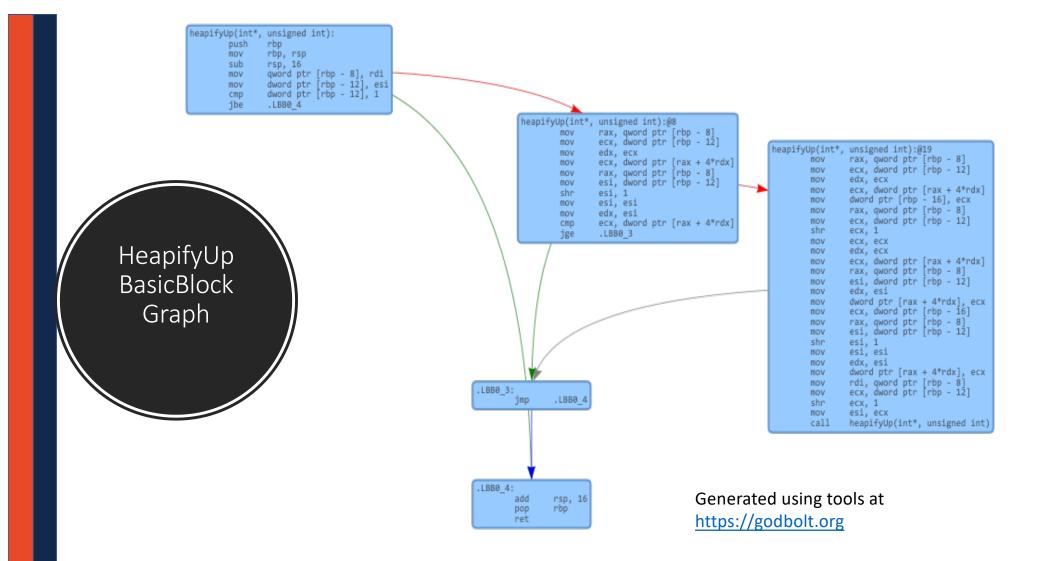


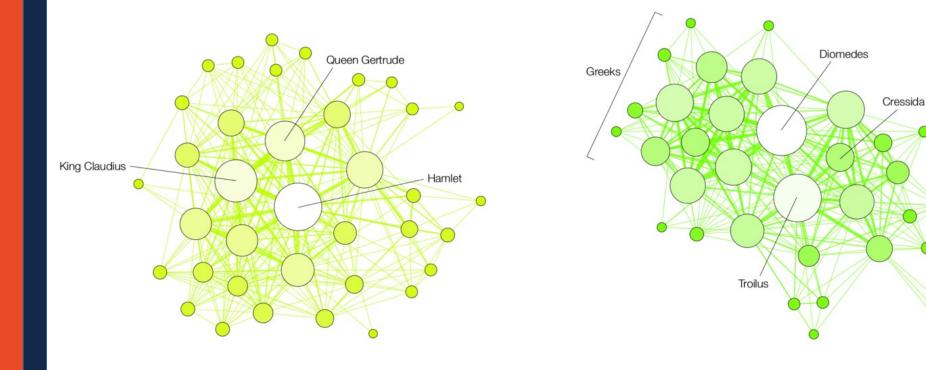


The Internet 2003

The OPTE Project (2003)

Map of the entire internet; nodes are routers; edges are connections.





HAMLET

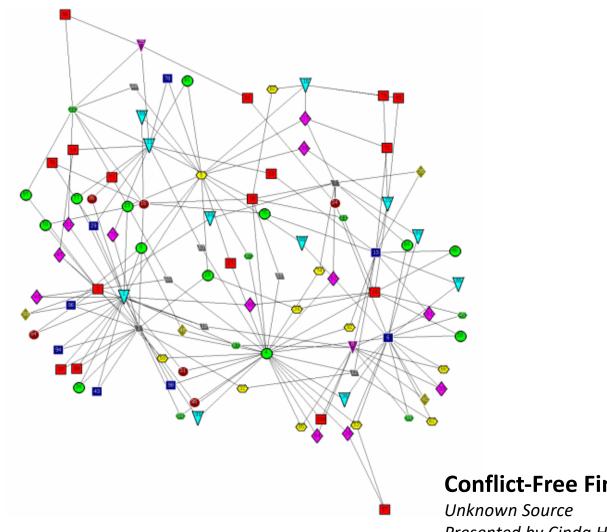
TROILUS AND CRESSIDA

Trojans

Who's the real main character in Shakespearean tragedies?

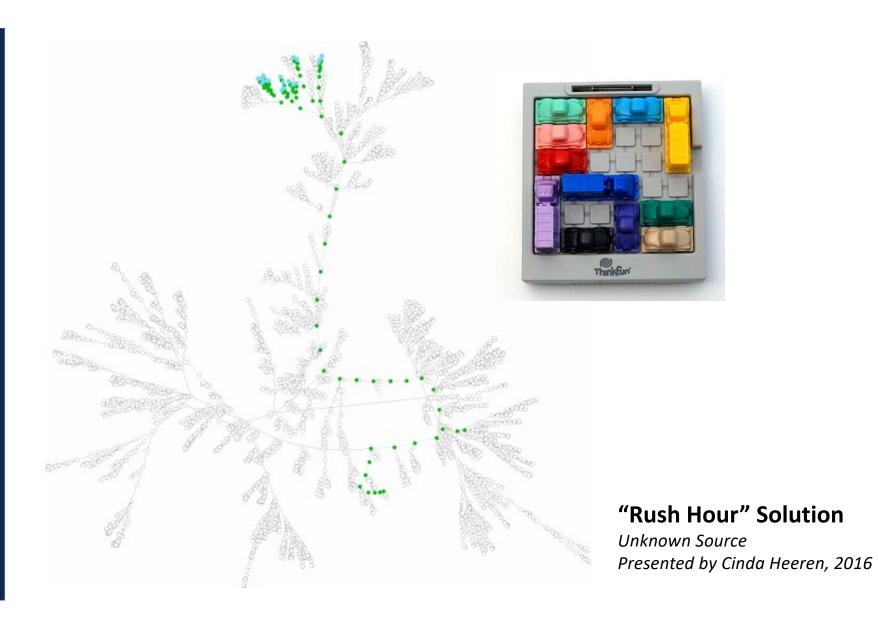
Martin Grandjean (2016)

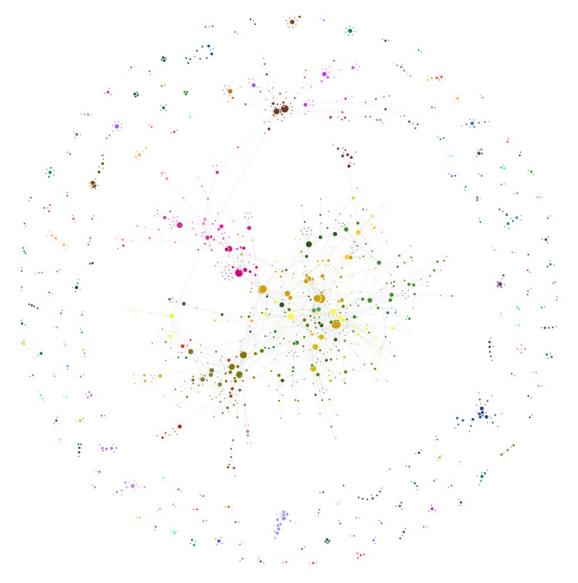
https://www.pbs.org/newshour/arts/whos-the-real-main-character-in-shakespearen-tragedies-heres-what-the-data-say



Conflict-Free Final Exam Scheduling Graph

Unknown Source
Presented by Cinda Heeren, 2016





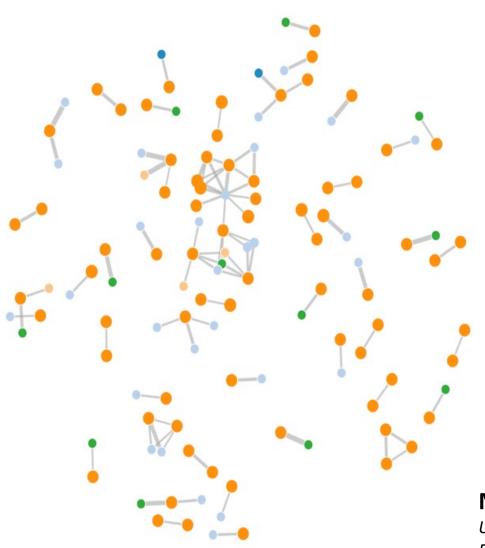


Class Hierarchy At University of Illinois Urbana-Champaign

A. Mori, W. Fagen-Ulmschneider, C. Heeren

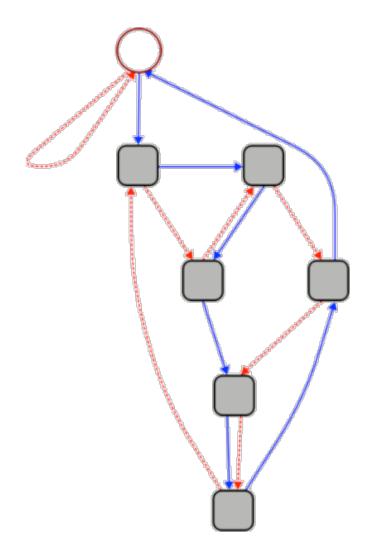
Graph of every course at UIUC; nodes are courses, edges are prerequisites

http://waf.cs.illinois.edu/discovery/class_hi
erarchy_at_illinois/



MP Collaborations in CS 225

Unknown Source Presented by Cinda Heeren, 2016



This graph can be used to quickly calculate whether a given number is divisible by 7.

- 1. Start at the circle node at the top.
- 2. For each digit **d** in the given number, follow **d** blue (solid) edges in succession. As you move from one digit to the next, follow **1** red (dashed) edge.
- 3. If you end up back at the circle node, your number is divisible by 7.

3703

"Rule of 7"

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