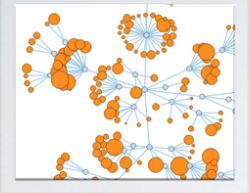
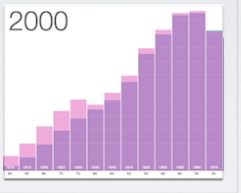
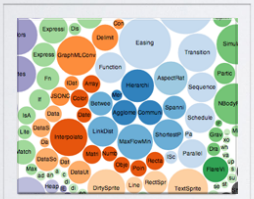
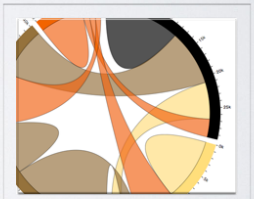
D3 LAYOUTS



LAYOUTS

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- D3 Layouts are somewhat **misleading**
- Layout functions do not place the objects in the SVG
- *Instead,* D3 Layouts produce a new, transformed dataset that is better suited for that particular visualization
- This makes **using layouts tough**
  - Half the battle is creating the data form for the visualization you want
  - A lot goes on behind the scenes of these Layout functions (new properties are added and so forth)
  - Using these parameters to bind to visuals can be confusing

KEYS TO SUCCESS

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- **Be selective** when to use a Layout:
  - Does the layout make sense for my dataset?
  - Or would a simpler visualization show the data better?
- Is there a **good tutorial** on this layout?
  - Is the tutorial well explained?
  - Is the data in the tutorial similar to mine?

TODAY'S ACTIVITY

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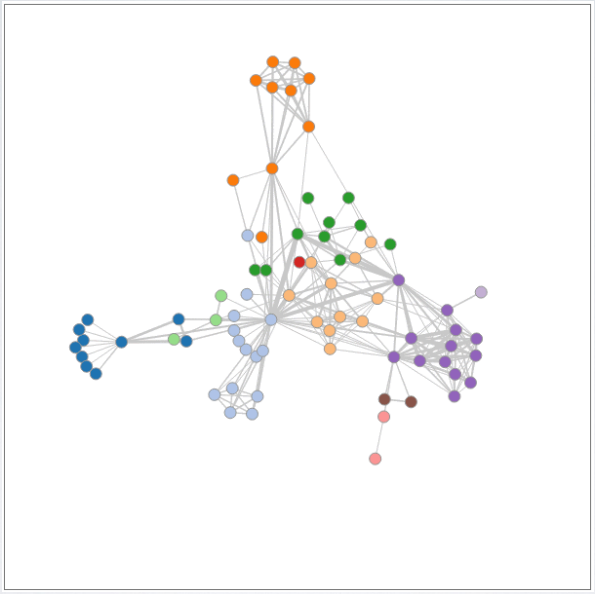

LAB PROCEDURE

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Before Class

- Read "Getting Started: Force Directed Graphs with D3 v4" from *puzzlr*
- *Git pull* example code (https://github.gatech.edu/CS-4460/Labs.git)

In-Class

- Open Lab 9 instruction page (https://github.gatech.edu/CS-4460/Labs/wiki)
- Work through activities
- First things first, start an http server with python at `09_lab` directory

After Class

- Submit "main.js" to the "Lab 9" T-Square assignment
  - Only submit that one file - Deadline is **1:15 PM Today**
- Already have your P5 dataset selected. Designs should be underway.
- Maybe consider using complex visualizations from this lab.