

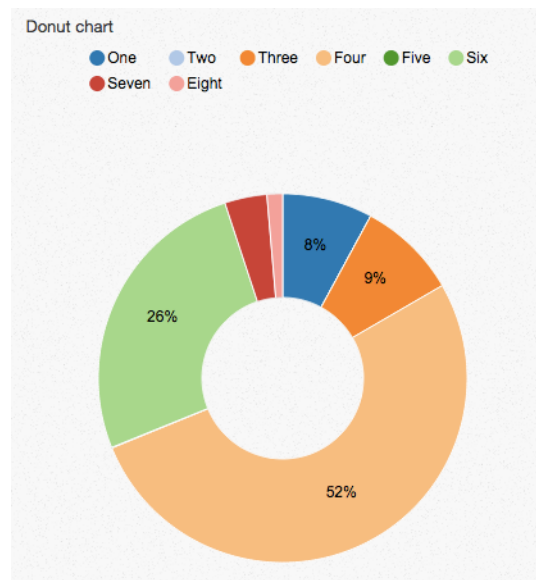
Graphs (descending priority)

SUNDAY MILESTONE: COMPLETE 3 GRAPHS!

- **Pulling Statistics from GitHub API:** <https://developer.github.com/v3/repos/statistics/#commit-activity>
- **Example code:** unless otherwise noted, all examples are from <http://nvd3.org/>

Donut Chart

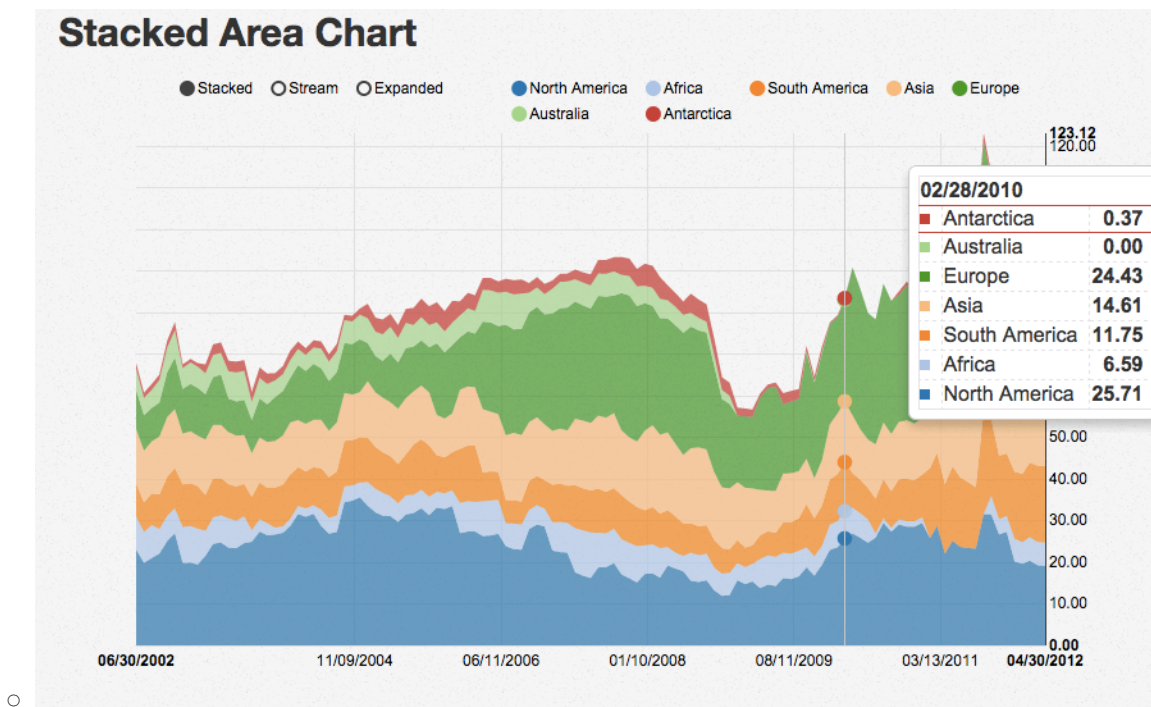
- **Information needed:** `user: total_commits, repo_name: total_commits`
 - we have this information, just need to aggregate it! do this first
- **Question:** Which repos have the most commits?
 - Area: total commits
 - Regions: # commits of a repo
- **Considerations:** limit the number of repos in the donut chart to 8, either by most recent or top 8 by number of commits



Stacked Area Chart

- **Information needed:** `repo_name: total_commits, contributor: num_of_commits`

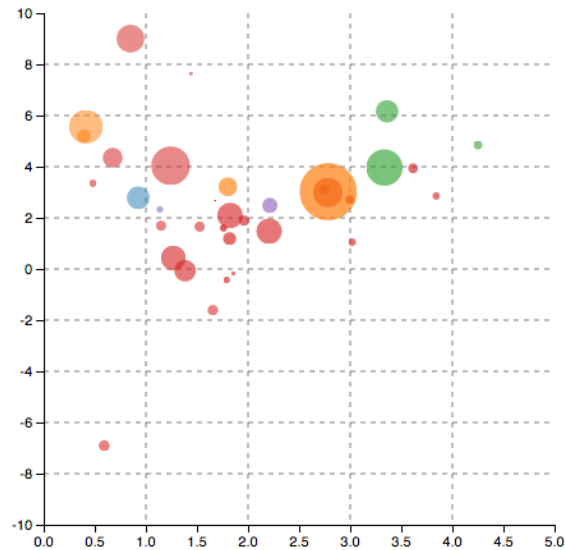
- { master/repo_name: { contributor : num_of_commits, ... }, ... }
- WE ALREADY HAVE THIS INFO! ^_^ let's do it
- **Question: How many commits are contributors making for each repo?**
 - Regions/lines: contributors
 - x: over time
 - y: number of contributions
- **Example Code:** <http://nvd3.org/>



Scatter Plot

- **Information needed:**
- **Question: Which repos do you have the longest relationship with?**
 - Circle: repo
 - Size: repo's number of commits
 - x: date last updated
 - y: how long this repo has existed
- **Example Code:**

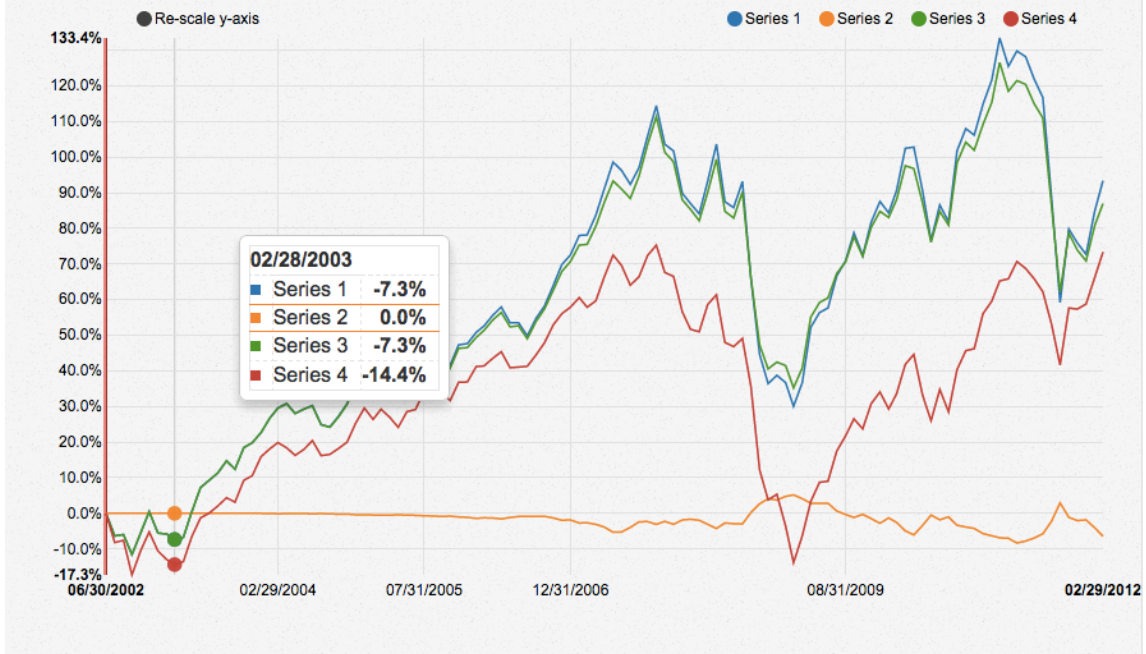
- <http://www.jeromecukier.net/blog/2012/05/28/manipulating-data-like-a-boss-with-d3/>
- <http://nvd3.org/examples/scatter.html>



Cumulative Line (or Bar) Chart

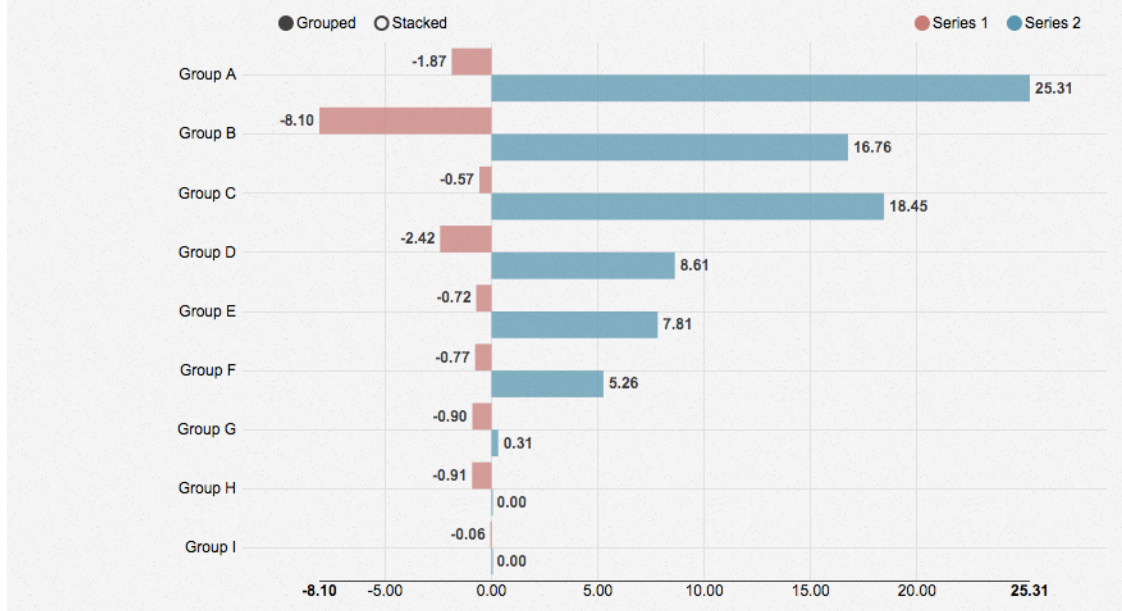
- **Information needed: num_commits_per_day, num_commits_per_week**
- How many commits per day?
- How many commits per week?

Cumulative Line Chart



Add-Delete Bar Chart

Horizontal Multi-Bar Chart



- Information needed:

- most recent 8 weeks, num_of_delete_for_each_wk, num_of_add_for_each_wk