I) <u>Design Studio</u>

<u>attributes</u>
- order / time
- lines changed (adds / deletions)
- merges
- other attributes: commit message, who committed, active branches

<u>user roles</u>
- project manager : in charge of project
- contributor : add code
- visitor : look at code / project
- project user : uses project

<u>user tasks</u>
- track history of project
- see who contributed and when
- look at new commits / branches / development
- debug where things went wrong

<u>one role</u> : contributors to the project / someone who knows github

II)   <u>attribute   visual variable</u>

commit step   length
person   color (top 5 / gray)
size of commit area
branches   angle

→ Yes aggregate nodes
→ new node when user changes
   or there is a merge or
   pull. (or fork)

→ Each Fork = own graph
   ↑
   zoom in

Interactions:
→ click on node, show from
   that node on
   (scroll)

→ node - link seems good

→ highlight branches.

→ hover over node:

Design decisions

→ commits clustered in node to avoid long stretches of uneventful nodes

→ zoom and selection filter so its possible to look at the
   whole history by zooming out. -
   - github view lets the size of viewing window
   - using arrow keys is not efficient.

→ branches are made radially where
   angles convey amount of
   changes made in branch.

node size indicate
# of commits in
this node.

(on hover)

user
date
additions/del

forks

developing

time radially
out

master

(highligh branch)

branch name
#users contributed

drag to change size of selection

drag to view different times