DESIGN WEEK 3

* **Think about how these networks are different. Analyze the “dimensions” of these networks. What are the relevant attributes (e.g., commits, users, branches, commit size, etc.) of these representations? What other attributes could be relevant in this graph? Write a list of all the attributes your visualization could show.**

Dimensions: Owners & Time

Relevant attributes: Commits, branches

Other relevant attributes: To what they committed

I would show: owners, when what is committed etc etc

* **Are there different roles, i.e., different types of users who might want to achieve different things? Write a list of user roles.**

Probably users who commit a lot would want to distinguish better what they committed, while less frequent users won’t have that desire.

Userroles: Developer, reader

* **Think about which tasks a user of your visualization might want to achieve. Write down a list of tasks.**

A reader would want to have the committed files showed to him more insightful way.

* **Identify one role that you want to design your visualization for. Prioritize your task and attribute lists based on this role’s needs.**

Developer: Status quo of project, previous commits and by who they were done

* **Decide on which visual variable to use for which attributes of the visualizations. Consider the strengths and weaknesses of visual variables that were mentioned in Carpendale’s article**[**Reading 2**](https://datas.mprog.nl/readings/reading-2)**(also briefly discussed in this week’s lecture:**[**Process**](https://datas.mprog.nl/lectures/process)**). Use the strongest visual variable for the most important attributes of the data.**

Use visual variables corresponding to the size of the commit. Was it a big commit (eg. should developer pull) or a small commit ( developer can just replace a file on his/her own device). Circles are suited, as well as squares.

* **Do you think it is necessary to represent every single commit as a separate node? Could you think of ways to aggregate this?**

No, multiple commits a day can become one large node.

* **Do you think that every contributor needs a “row”, as on the default network view on github? Could you think of a smarter way to summarize those?**

No, if the name shows when hovering over the commit, a lot of space can be saved. Also, it may accentuate the group aspect of a project if everyone is on the same line and commits are shown as such, which may have a beneficial psychological result.

* **Is a node-link diagram the appropriate representation? Or should you consider alternative graph representations?**

A node-link is appropriate, but alternative graph representations could be a tree layout, a sunburst or force-directed layout, although the last is not preferred.

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