

**Dawid Wozniak:**

So, let's start. I will present the tool. Then I will ask you a few questions. So as we talk, I have downloaded a repository that you selected. It is in Git Truck. I have some repositories that analysed before and now I would just analyse your repository. So what did it do? It is actually taking all the commits on things that you have here. It was actually quite fast. It is the tool. So now I will explain what we have here. Here we have the branch that we analysed, time when it was analysed, commit hash in the short version, how many files there are. There is some feedback box that it's not that much important here. You can see that it is a bubble chart and I mean that we have those bubbles. Each bubble represents something. If it's as bubble that has some colour, it represents the file. If it's a bubble that contains other bubbles, it is a folder. So here you can see that it is.

**Sofie:**

OK, so the black bubble...

**Dawid Wozniak:**

Yeah, it's...

**Sofie:**

So... This black bubble is packaged. OK. Yeah. Makes sense.

**Dawid Wozniak:**

Yeah. So, if you hover over it, you can see the name of the file. Here you have some folder like source folder if you click on, it you can zoom so you can see some more stuff. If you click on the file, then you see some details of the file. There is another type of the chart that is called tree map. Then it looks something like the old file explorers. It is the same idea. It is just the square instead of bubbles. So, you have a here the file and here you have a square that contains other squares, and so on. I think that the bubble one is better. That is why it's also default. So, let's stay with that here. We have some metrics. So, the default metrics is file extension. So, you can see all files extension, it's colour coding. There are other metrics like number of commits so which files were changed most frequently than others. And here is like 60 commits. But here is only 11. Last change, so we can see that here it was like 158 days ago and he it's a slightly less. A single author, so those files were created just by one person. So here it's Sophie, Sophie, and he actually is Laura. Here, there are the three authors. And then, you have top contributor. So, this file Laura contributed the most and for it, this Sophie. So, you can see that there is some overlap between single author, contributor and track factors. So how many people actually contribute, here it's. Also, the same information presented in slightly different way, so here we have one author. It is what you know from the previous metrics and here we have 3 authors. That might be new to you, and I will stay with the file extension, as I think that it's a good metrics for the sake of presentation. We have the chart depth. So now you have full, but maybe you would like to just see what you can see in the explorer like when you browse at the project, then you can set to 1. Now we have the bubble that is source, some package public, some gitignore and that kind of stuff. So, it is what you would see, if you go just to explore it on this level and then you can go there and deeper. It is I think more useful when you have a big project, and you have a lot of bubbles. Then it might help you to go through some folder structure and so on. So, I will come back to full. Uh, here we have animation labels. It's not that much important. And then we have the detail information that I mentioned. So if I select any bubble, let's say the source bubble. And then I can see the author of distribution and it is calculated based on the number of commits committed by the

given person. So here, it's Christine and Laura that have the most ownership of this folder. And then I have the comment history here. It's just informative view. So, you cannot do anything else, but there is a special commits tab that actually I develop, and it is the main topic of my thesis. And what is the difference? So here you have some sorting. The default sorting is in the accessing order by date, but you can also change it from there. Like all commits are sorted from the latest date to oldest. You can do the sorting by author. So, you can see Laura's and Sophie's commits. Let's stay with the date. And then I have some features. So maybe you just want to search for some part of the commit message and you know that it was there. So let's say "layout" and then you can only see commits that include this word in the commit message. And if you select this, it's also in the commit description. So here, you have like information in the description of the commit that merged pull request. So having that you might think, OK, I don't want to see this merged commits and then you just don't select this and they should be gone. But they are not, I don't know why. I think that it is just because of the structure how it was done. I tested to get there it here with GitTruck. So maybe there is some difference. Yeah. But nevertheless, we have also the author filter. So maybe you are just focused what Sophie did and then you can see it sorted by date or you can just exclude Sophie and say okay everyone else except Sophie's commits. Finally, you have the dates, so you can set. OK, I would like to see everything what happened between these days. If you don't change anything, then it has another role, that is informative. So, you can see that now it's from this date to this date. It is the full range of the commits that are displayed here. If I remove this filter, the dates have changed because there is a different range of them. It is the product and now the first question that I would like to ask you is about the UI. So, if you think about the commits here, do you think that the information about commit messages is presented a clear and easy-to-navigate UI?

**Sofie:**

So you mean this place where you can filter and sort the commits?

**Dawid Wozniak:**

Yeah. So, this stuff in general. So, we have general commits and that's the part that you can look at. Everything on the right side, the tab here to switch between the general information and commit information and everything else, you have here.

**Sofie:**

I would say that the overall it, it seems kind of a good because it follows, like a lot of like standard ways of doing things. This kind of filtering and you can type in stuff and it's just stuff for you. It suggests the names of the people who have done the project. So, I think it makes a lot of sense and when you navigate there was nothing, I thought that didn't fit in or that surprised me. I think it was good. I guess people expect something like that to look.

**Dawid Wozniak:**

Okay and if you need to grade it from zero to 10, like 0, it means that it's not usable and ten that is perfect - nothing to correct. What would be the grade?

**Sofie:**

Eight. Maybe.

**Dawid Wozniak:**

Okay. So is there anything missing that maybe you would like to point out or it's just the general impression?

**Sofie:**

Hmm. I mean like maybe there's a lot of like elements stacked up on top of each other, but I understand that you want many different functions. So that way I understand why, but maybe it could be a little confusing the first time you see it like... ohh what are the different things? It doesn't seem so clean, but I understand that it cannot be as clean if you want more functions. Does it make sense?

**Dawid Wozniak:**

Yeah, of course. Yeah.

**Sofie:**

So that's why I was thinking 8. But I think overall it makes a lot of sense and I think especially this the overview of the different commits is really nicely made with the dates and everything else. You can collapse and open them. I think that's very nice.

**Dawid Wozniak:**

There is one function that is also here. So, if you click on the particular commit, I show it, but just briefly, you have this message description, hash, when it was created, by whom, and you can click, "show edited files", then all files that were edited with this commit are highlighted and listed here. So, you can see what was changed, in the big project. maybe it is not that visible here on the bubble chart that well. That is why this list is there. And so, I would like to ask you if you think that it would be beneficial to use GitTruck for any of project, any job project, any project that you are doing in your free time? Uh, would you think that this tool is beneficial for you?

**Sofie:**

I was not super good at GIT. Still, I'm not super good at it, but I think this kind of gives you a good overview and it makes it very, very much easier to like search through the commits. That's one thing and I think another thing that is very good for is also to see like okay I was working with my team equally much on it. If you're in a group. then you can see... Okay who is working most on it? and who has done most of files? This is maybe also something that's good for a teacher to know. So, when they should create a project, they need to see. Did everybody actually worry about this project? Then they can look at the project with your tool and see. OK, did everybody contribute evenly? What did the different people write? Because, maybe, some people just did the CSS files and some just did the JS files and you would be able to see that here. So, I think that actually for teachers, this is a magnificent tool because you can really see who did what. Of course. you can also see that in Git, but here it's visualising it much more pleasantly.

**Dawid Wozniak:**

Thank you for your feedback. So still. I need to ask the last time on the scale from zero to 10, how beneficial would it be for your work to use it? When zero means like you will never use it to ten that you will use it for all of your projects for some purpose.

**Sofie:**

I think when we're doing projects, they are relatively small. Those I've done are relatively small. So, I don't think I would be using this. I don't need to use it, you know? So maybe I would say 5, but I can imagine that when I am gonna do bigger projects or something like that then then this would be something I would find useful. But for the projects. I've done so far, we always be stressed out that

we don't have time to look at our GitHub repository. Look at these nice things. So, if I should be realistic with the like school work, then I'm not so sure. But for work like when I get out of here and when I do bring up projects then definitely yeah.

**Dawid Wozniak:**

Yeah. So, you gave 5. So, I assume that there are some use cases that you will use it this tool for and you mentioned one that for lecturers or for teachers it might be good to actually see what was done and by whom. So, what do you think what would be the primary use usage of this tab? So, if you go to some project and you like to explore it a little, when would you go to this tab to actually see some change here in the sorting and filter view. Is there any scenario that you can think of? Maybe scenarios, maybe more than one?

**Sofie:**

Hmm, yeah, I could think that for example, if I'm working on a project and I remember at some point I changed something, but my commit messages are not good enough for me. Like when I scroll through them in the in GitHub or in the in the overview, then I can't really figure out like where did I do this? And I know it was this file and then I can actually go and use this tool to figure out because a lot of times you have done something previously that you want to go back to, right? Then you wanna checkout that file. So, I think this would be what I would use it for, and I know for sure that I have had some experience where I didn't remember when I did the change, but I remember which file it was right so in that way I could kind of search for it here. But also sometimes I would remember – Okay, I worked on something in this period of time, but I don't really remember where I changed this thing that makes it not working now and then I could go to that time span. So, I think in those situations where I want to kind of like go back to a previous version then it's really good for me to kind of search for when I actually did the change and where it is. Does it make sense?

**Dawid Wozniak:**

Yeah. That's good feedback. So, do you think that there is something missing that you would like to have regarding commit message history? So maybe some filters, some sorting, maybe doing something extra on this layer of commits, giving more details or different kind of details. Is there anything that you can think of that it's still missing here?

**Sofie:**

No, I don't think you should add much more because I think it should also be kind of like simple. So, it's easy to kind of look at. So, in that way what you showed me, I think everything is really useful and I don't think that there are anything in particular lacking, but I haven't used the tool by myself. So, it's hard for me to kind of like really say. because if I were about to use it, maybe I would think of something that could have been there. But like that the Internet user interface is relatively simple. I think it's good how it looks now and I think it's giving you a good overview and I think too many functions would make it a little bit less user friendly.

**Dawid Wozniak:**

Okay. And is there anything else that you would like to say that I haven't asked about the product or some other feature not connected with commits?

**Sofie:**

You know, I have, like, a curious thing. When you made it, who did you make it for? Was that for people who are using GitHub or was it for professors and teachers to look at the student's work or what did you? Why did you develop it?

**Dawid Wozniak:**

Yes. So, I just extended this tool. The general idea was it for people who want to onboard new people, to the project. So, you can think about the lecturer in this scenario that you handed out your project and then you want to kind of onboard them in this project, but maybe in the industry also they are companies that change repositories frequently like software houses and that kind of stuff, freelancers? Then you can use this tool quickly to see. OK, I work for this company. and they need to change this file so then I see that. OK, Sophie is probably the person that I need to ask, and I don't need to explicitly ask like the product manager to point me in the right direction. I can do it kind of out-of-the-box here, especially when it's a big project. When it's small project, then you have rather small number of developers. Yeah.

**Sofie:**

Yeah, yeah, that makes sense.

**Dawid Wozniak:**

I still have some questions, but they are about you. So, I wanted to also make some analysis based on some factors of my testers. So now I will ask those questions. So how many years have you worked or been connected somehow with IT projects, including part time jobs?

**Sofie:**

Ohh, that's the only one and half year here.

**Dawid Wozniak:**

And it's not only. It is a good measure of time and what is your primary role? Have you defined yourself?

**Sofie:**

What's my primary what?

**Dawid Wozniak:**

Primary role. So, you can think that you are a software engineer, maybe product manager or you think that you are first of all student.

**Sofie:**

Yeah, I'm a student and then I'm doing mostly front end as a student. Yeah.

**Dawid Wozniak:**

And when you have any project, either at the university level or for your work, what is the average size of your team? So, including developers, QAs, product managers, if you have any product owners. What is the average size?

**Sofie:**

Yeah. So, I have only one. I'm only studying. I don't have work on the side, but in the study projects, we would be only three people, maybe four people.

**Dawid Wozniak:**

Okay and when you have your average project at the university, what is the average number of commits that you have in your project?

**Sofie:**

I have no idea of that. I guess we can see that actually from your tool because that's not something that I've thought about in ever. But I think this project is a very good example of yeah, that the size of projects that I've done.

**Dawid Wozniak:**

Yeah, here it's around 50 commits. And what about number of files? It is the same situation as it's here. So here you have 71. Is it average project? Or maybe it's bigger or smaller?

**Sofie:**

No, my average project would be smaller than that, I think.

**Dawid Wozniak:**

So like 50?

**Sofie:**

Yeah, probably, yeah.

**Dawid Wozniak:**

Okay. Uh, so it was the last question about you. And now I have a question about my project. So, when I finish writing my master thesis, would you like to be informed and to get the results so you can read what was the main conclusion out of the paper?

**Sofie:**

Yeah, that could be. That. Could be fun. Yeah.

Dawid Wozniak:

OK, so, I will mark that and then I will send it to your e-mail when I'm done writing it. So that's the end. Thank you for showing up and helping me. I will stop the transcription right now.