

Dawid Wozniak:

OK, so let's start with it and I will start with the presentation of this product. So, this product is called Git Truck and when you run it on your local machine, you will get something like this. So, the list of the repository of the current root folder where you run this. If you analyse some of them then you have this analyse tag, you can just view it. Otherwise, you can just analyse it for the huge repository. It will take some time. So, let's start with this and now it's just restoring the analyse from the memory. I will talk about this for a moment. So, if you would like to run it with your local computer, then you can do it. If you have NOM, you can just run this `npx -y git-truck-beta@latest`. There is a problem with the scalability that they will for sure noticed as we don't handle big project that well at this stage. So here we just take 5000 latest commits, and this is the basic view. So, on the left side you have some information like what the name of the repository is, what is the branch, when it was analysed and short version of the commits on the top of the list, how many files are there, some feedback box, and here we have the chart type. So, this is the bubble chart, and the size of the bubble is meaningful. So, the size should correspond to the size of the real files here and it is the ratio. Right? So, I don't know which bubble is the smallest one here, but if you take the ratio between the biggest bubble so the platform in this case and some small bubble here, actually „iteration”. It should correspond to the real ratio in terms of the size in the File Explorer. We have a few metrics, they are colour coded. For now, it's difficult to see colours because we have so many bubbles. But let's say we zoom in to some of the folders, let's say web and hopefully, yeah, you have some more colours and basically the default is the colour coded by the file extension. So, if you hover over it, you see the name of the file and the extension and then you have some colours in this repository that I think that might be similar to something that you work on. It's file extension. It is a very long list with a lot of stuff, so it might be a little problematic to actually see it by colours as some colours might be similar. We know that this is the issue. We have other metrics. So the one metric is the number of commits. Then if something is darker then it means that basically it was change more frequently. Hopefully, it will change. It's also the rolling update, so it may not be that fast and yeah and then if you hover over it, then you will see how many commits were done there. So, you have like twenty commits to this file. We have last change, it's similar. We just show in darker what was changed so many days ago and if it's more light than it means that it was updated recently. We have also single author. So, it's just one person that committed to this repository. This files are highlighted on the red. So, let's say here you have just the one person that committed to this file. Maybe it was just moving renaming so it's something that also should be very verified. We have top contributor, If you would like to have this, it is based on the commits, you can also see who should be the owner of this file. So here you have alias and we don't know how many commits are there. Maybe it's 100 and he did 60 of them. So, then she should be the owner. And finally, we have the track factor. So how many people actually touched this file. If you go here, then we can see actually that it was 5 authors and the person that I mentioned before should be the owner of this file. So, we have the file, the track factor 5, let's stay with the file extension. So, as you can see this is very crowded. You can limit that so you can put the chart depth to one. Then it's basically what you would see if you go to the File Explorer, then you can increase it, let's say to two or to three and it basically shows you also how the project is complicated or how it's structured. So if you click on any bubble you will get some general information, so it's the folder and it says it has 22 files inside 69 folders when it's located. What is the author distribution and some basic common history view. This commit stuff is something that I was responsible for and I developed so by default you have commits from latest to oldest group by the day when it was done. So here for example, we have two commits that somehow apply to this web folder. You can also change the order here from oldest to latest and you can group it by author. So, if you're just interested who did what and then you can see. OK, who

did those commits? Dennis, Erida, Dennis and so on. I stay with the date because it's clearer for the filters.

The filters, you can filter by part of the commit message. So I will type just „fix” and then all what we have here include this word in the commit message somehow. So, it's here and here. You can also say okay it's not enough for me. I would like to check also in the commit description. Then you have those commits that actually not having this word in the commit message. But it is somehow in the description. Then you can select some authors. So let's say Erida, so there is actually one commit done by Erika. Maybe you want to have another way of searching. So, we just exclude people and say okay can we actually see all without Erida's commits. Finally, you have some time range. So maybe you are interested in what happened just in 2022. Then some of them are probably gone here. There is a checkbox. It is to show the merge commits. It is designed for GitHub and we use the DevOps so actually it does not bring any change. If you find the commit that you are interested in then you can click it and you will get some more information like the message and the description. So here we don't support any formatting, any images and links due to the security issues. The full hash when it was created, by whom it was created, and you can show the edited files. Now we are fetching which file were changed with this commit and we will highlight them in the visualisation. It might not be that much visible when you have a lot of files, so here you will also get a list of all the files that were included in this commit. It will probably take a while. I don't know how many files were edited with this commit. So not that much... Yeah. So here it might be difficult to spot which files are actually highlighted. So, then you have this list that you can actually see and navigate. These files need to still be present in the repository. Otherwise, we will not highlight them. We don't show them. So, if you look for some commits that are very old, you might have a situation that you will get nothing because all these files were removed or moved somewhere. Yeah. So, it is the overview of this tool and now I have my first question. So if you look at the UI of this commit staff and how actually you can get there. Do you agree with the statement, this information about the commit messages is presented in the clear and easy to navigate UI and you can grade it from zero like it is completely not usable in your eyes to ten that is like perfect in your eye nothing to correct, yeah. So that's the first question.

Marta:

Can I answer only with the number or with the comment?

Dawid Wozniak:

Of course, with the comment! So even if you say just a number, I will ask for a comment.

Marta:

So I think I gave it seven, because it is accessible from the list and I like it. You can extend more information. That's nice, but what I'd like is this connection with the rendered image. Right? With this bubble, I would like to see it somehow together and now it seems like a little bit separate application.

Dawid Wozniak:

Yeah. So, the one connection is that you click some bubble and will get these details updated. So, if I change here, all these commits here they are updated according to what is there so then you can say OK, I'm just there. I'll go here and the list reduces and reduces and that's the one connection. Another connection what you want to have is to show this edited files here. So, if I show it here hopefully now you can see how it's highlighted and it should not be hopefully that big commit.

Marta:

Yeah, only maybe if I can also suggest the way it's displayed, it could be like not only lines, but also like in a rectangle. So, you can see that it's different. You know it's not just like a list when you have a list of commits. Right now, I don't see a clear separation between different commits. It's just the way how the list is displayed.

Dawid Wozniak:

OK you mean the previous view?

Marta:

Yes, the one where you have a list.

Dawid Wozniak:

OK. So just to finish with it, this is the fact why we change that is why they are highlighted, and they are not. So now we revise, and you were talking about this list, right?

Marta:

Yes

Dawid Wozniak:

Okay, that's what I got now. OK yet. So. they are very nice suggestion. Thank you for that. And now I have a question about general product. So, if you take this product and you think about your work project or your side project. How beneficial would it be for you to use this product if you have access to it from zero that you will never use it outside of this presentation to ten that you can use it for all your project multiple times a day? Yeah, so basically how useful would it be to use this tool for you?

Marta:

So at the moment it would be six because I work on a huge repository, so this seems like an argument that it would not necessarily work for me. I can imagine using it on smaller projects, especially using this filtering area. That would be something very useful because I'm thinking about filtering it per collection of aliases or mix. So, I would like to see what's happened in my team within last week for example and it seems like it can do that, so that's useful functionality.

Dawid Wozniak:

Yeah. So, you're actually partially answered my next question because my next question is what would be your primary usage of this comment view? And you mentioned that you would like to see what happened in your team and what you did in some group of people, some team on the like Microsoft level. But is there anything else what you can use this tab for like your primary usage for it?

Marta:

Actually, I think what is important to me. It would be great for understanding that maybe there is some specific area that has huge traffic, right? A lot of changes and maybe it would be actually a suggestion to split this file. Maybe there is just too much business logic and then I think this would actually highlight the problem.

Dawid Wozniak:

Yeah. So here we have this number of commits and then we can see, OK, this file was changed 20 times and this file change only two times. Yes. But it also maybe it's not that isible when you don't know the product at first. OK, so now I have a question if there is anything that you think is missing here in the comment view like other type of sorting, filtering, anything that you would like to have

here that is connected with the commits and it's not there. Do you have any idea what we can do to improve this view for you?

Marta:

I think my only suggestion would be to make this UI a little bit nicer. Yeah. So the suggestion may be instead of simple text. I know it is formatted, but to make it like you know different rectangles or something else? I saw this this nice thing that shows up the scale, right? It was colourful nice widow. I think it was a moment ago. Yeah. So actually, this is the slider. Here. Give me a nice look. It makes this nice feeling. I really like it. It's friendly. So, the small improvements I think it would be nice.

Dawid Wozniak:

Is there anything else or it is it?

Marta:

I think I'm not sure how the filters for multiple arguments would look like because this is something I see that it's possible. How does it look? If you could show me, maybe multiple authors.

Dawid Wozniak:

OK yeah, so here, let's say that I will put Erida because she was here. So now you can see just Eridas commits and then you can add someone, let's say Eigo. And then you have those two. You can also remove one of them and it's sorted by date. But if you would like to have the separation of authors, you can say authors here and then you can see it. Actually. Erida did those and then Eigo did those.

Marta:

OK. The filtering and choosing this looks nice. I like it. I'm wondering if it might be useful for someone to apply not group by the person, but maybe use this on this information. So, for example when I worked with it now in Azure DevOps when I see information I can add extra information to display like deliverables and I want to see an alone the author for example next to the list. That might be a nice improvement.

Dawid Wozniak:

OK. So, it was my last question about the product, but maybe there is something that you would like to say that they haven't asked about, something that you think would be useful to have or some comment that you would like to include. If not, that's also OK. It is just optional, I can just go to the question about you and your career.

Marta:

I mean probably If I were to use it, maybe I could come up with more ideas. For now, it seems fine.

Dawid Wozniak:

OK, so now I have a few questions about you. So then actually I can see if those factors influence the feedback among my testers. So how many years have you worked professionally with IT projects, including part time jobs. And it is in the years. So, we don't need to be precise to months or weeks?

Marta:

Eight years.

Dawid Wozniak:

And what is your primary role?

Marta:

Software engineer.

Dawid Wozniak:

OK. And when you think about your average team, how big it is and you can think including like developers, QAs, product managers, product owners, but not the high management like marketing people. Management of your management that kind of people should not be included.

Marta:

I think 12. OK. A

Dawid Wozniak:

And now when you think about your average product, so average repository, basically how many commits are there and you can say like per day, per week, per month, per year. If you know it.

Marta:

I have no idea about it.

Dawid Wozniak:

That's also a good answer that you don't know it. So, it's not something that is interesting for you, but the indicator...

Marta:

No, it's just a fact about my team. They are people that I work with, but our code area is within a huge product, right. So we use the same repository that use other people across different continents, right? So, our part is really just subset of this many commits.

Dawid Wozniak:

Yeah, I understand. But this is a good answer and it's okay that you don't know this information that's also suggested and so and another question about the average project. how many files are there? So here it is like 52,504. Do you know how many files are in your project?

Marta:

Roughly no. We had this information somewhere, but I don't remember.

Dawid Wozniak:

OK, that's OK. And so now I have another question, so when I finish it, I will publish my paper. So, would you like to be informed about the results of this paper? So basically, should I send the paper to you when I finish so you can read it?

Marta:

Yeah, sure.

Dawid Wozniak:

Here, there is some chocolate for you. Choose, please, which one you would like to have. Yeah, so that's the end of this feedback meeting. Thank you for showing up. Enjoy some chocolate. I will of course do the separation what you said what I said, and you can review what you said. So, if you change your mind or something, you still be able to review it.