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Well, because of me, I actually saw that if you posted this question, just recall it, that is, I may be able to briefly describe it, but I may describe it, and I may not necessarily think so in detail, and then if you have a problem later in the description process If so, you can ask me later. In most cases, if I learn to understand a new software or a library or framework, there are generally two types of demands. , the first category is to learn about some relatively new things in the industry, this is one, and the other is that I may actually encounter some problems in the process of work, and I need something to help me, I hope to complete a certain function quickly and directly, but these two categories are used as a starting point, and then for the first category of things that are relatively new in the industry, I am generally, because relatively new things generally do not have any books, generally some biased Some technical forums , etc., or some friends next to me mentioned it, I learned about this thing through such means, and then I wondered if he could follow some of the previous plans. Similar to this, for example, some image libraries, or this thing, is it actually like my mobile terminal development, so he has actually changed several versions, and then he is different from the previous library, and then like some The difference between the libraries of various things of the network communication protocol is that I usually read it for this purpose, so in this case, I usually read his product introduction first. Look at what he highlights and sells, what's good about it, and then I will spend more time on this, and then maybe I will look at other codes, and then learn it from this angle, and then because of this code I may not actually use it in a project, so I usually just watch some of his quick Start, then write some small demos, and then it may be the point. This may become a knowledge reserve for me, and then I may look at things related to its usage, such as the design of his complete API. , API reference and definition, I may read less of this kind of detailed documentation, this is a class. Then there are other types of problems that I may encounter in my work, such as some UI libraries in particular, there will be more of these types, such as some tools, some services will be more, and I will encounter specific problems. problem, then I must have something to help me solve, and then I will go to see his document in detail at this time, because at this time at this time because of the strong purpose, so I will not go to Baidu when I come up , I will directly see if he can solve my problem, if it can solve my problem, if this part can be solved, then I may look at it, and then look at his quick Start, and then look at its usage, and then after that, look at some of its detailed functions, will it help me, look at some function introductions or some performance evaluations, and so on. Seeing that these things do not meet the requirements of my actual situation, and then I will look at the various descriptions of its API in detail before finally using it. This kind of very detailed things, this is the second category. However, there is no intersection between the second category and the first category. Just like in the early years, at that time four or five years ago, the mobile side was actually the same in China, and streaming programming was actually on the mobile side. I talked a little bit less, but at that time, I actually had the mentality of taking a look, looking at these things like x Java , and then maybe it was a reserve at that time, but at the end, maybe I really need one like this s frame. I may use X Java , and there are certain conversions between these two things, which are different at different points in time. This is some of the work process, and then earlier, there is another, and there is a very few cases, that is, I came up with the purpose of learning completely, and then I was willing to spend a lot of time on it. If you learn it, it may be a relatively classic thing. You may read a book, then look at the functions of the API, and then go deeper into every detail. This kind of thing is usually some very classic things, such as the system source code, and then some things around the system, or something that everyone in the industry generally recognizes , such as the back-end screen and so on. There will be more, probably I think about three categories.

【ask】

Well, yes, then you should have learned a lot. You can choose a specific example, and then talk about your learning process. You can divide the process into several stages, such as the early stage. In the middle and late stages, you can roughly talk about the characteristics of your learning at each stage, and what are the different learning goals.

【answer】

Well, like the early words, let me say a relatively long time, like X Java , let's say this, like this thing just mentioned. For something like X Java , it was because of, um , the company at that time. It should be a forum in the company, and he said that he wanted to reserve some technology for the future, and then made a little bit of it. Promotion, and then including putting this thing and that MOM thing together at that time, doing some publicity, and then roughly seeing, such a reflection, such a thing, it is in some exception handling, etc., etc., Including some processing of asynchrony, and then some benefits of various things such as nested solutions, etc., and then using this as a starting point, I want to know about him, and then I read a bunch of articles about this. Some books, I read some books, but the specific usage of these books may be rough and rough when I read them for the first time, because although these things were used in actual projects in China 5 years ago There are few, but in fact, it looks like some open source projects. From the outside, in fact, this thing is actually relatively, relatively hot, so these things are actually like some translations of some books, that is, these things will come out. In fact, I will read some, and then include some server-side things of the same type. In fact, I also made some simple comparisons. Then, I looked at his one, and briefly looked at some of his translated introductions. Some of the websites of , maybe this way, you can roughly understand some of the operators that he often uses. But at this time, I didn't understand enough, so I just looked at the surface, and then I didn't really feel its value. Instead, I felt that he had a lot of cumbersome problems, that is, his documentation. I don't think it's actually there after reading it Attracted to me, although there is a little bit in the book, but because I have no practical experience, I actually don't understand it very well, and then I put it on for a long time. When it came time to do some orchestration, I wanted to do an orchestration, and then I found that a framework like this Vue seems to be very close to our orchestration idea, and then I wanted to use it at that time, but that At that time, I will go to investigate its various things in detail, including his API, source code, size, and then down his source code to look at it, and in fact , there are relatively few documents, because at that time In fact, there are no more applications, in fact, it is still in the engineering research stage, and then I will find that his package is too large, and then I actually don't have it, and I didn't use it in the end. In fact, I copied it. Its source code, and then later, because I didn't read it much, I simply took it with me for the documentation, and then when I actually used it, I found myself maintaining such a thing later. Although I understand some of his things, I still feel like I am building a wheel in the process of using it, so I still switch back to X Java itself, and then he is also iterating later, and then at this time because of the previous one His experience was that he wanted to do something similar, so at this time, he understood that the fundamental principles of those things would be relatively speaking, including things like real functional formulas, concepts, and so on. I have a deep understanding, and then I turned around at this time and really went through the document used by X Java , that is, there will be more processes including his chart, including the flow of various charts, then This time I will look at it in great detail. Then include every one of his APIs, which is actually flipped . Then I finally introduced this thing into the process of my own project, and in fact, I used this thing all the time.

【ask】

Well, that means you will read it later, but you will read it in more detail, right? You can read the document in more detail?

【answer】

Because I will actually apply it to the engineering process later, then every time I have a function that I want to use, I will think, alas, does this framework already have such a function? , I will definitely scan his articles. If he has me, I will use it directly. If I don't have it, I will think about whether you can combine it or encapsulate it yourself.

【ask】

Well, after you read this document, in addition to the introduction of such steps, he should also have such examples, and he will provide some cases for your reference.

【answer】

Well, yes, there will be, and one of the things that its documentation will attract me is that its diagrams are actually very straightforward, that is, he claims to be a data flow programming, and its data flow really gives You draw a flow, and then what is the input and what is the output, and in a graphical way, people can see at a glance what the formula does.

【ask】

Well, then you will also do some code based on these examples, you will try to write some code, and then make some modifications, right?

【answer】

Well, it's just an application , it's more an application, but if the latter words are actually used in the project, basically when we look at his source code, it's basically because of some bugs on the line, we think that he may have stepped on his own library. The pit, and then I will go to his documentation, and then there may be some details in his documentation, and then I will look at his code when I come back.

【ask】

I probably understand a learning path. You can summarize it. It should be mainly understood in the early stage, and then mainly a practical process in the later stage, right? Just try to apply it to your actual project.

【answer】

For more cases on a production chain, it is not so easy to directly move it into a new technology, unless it is a very small project, in a real big project, Generally, I will still hold a more cautious attitude towards a new thing. So more libraries are basically a stage of learning and understanding in daily life, and then maybe when there are actually some scenes later, it is something that has been learned from history before it can be really taken out and quoted, because In the real work process, generally speaking, it is a team, even if it is you, I have to consider more, that is, whether I can accept a new thing coming in, especially if this kind of programming is triggered. This kind of change in the framework, right, there is still a learning cost for everyone, not just me, so since I want to have something, the first is that I am clear enough for myself, and the second is his advantages and Disadvantages, pros and cons have to be made clear to everyone. In this case, I will say that I will become a microphone, and I need to persuade everyone to use this thing. At the same time , since I want to push this matter, I must have a certain reserve myself.

【ask】

The next question is how many types of documents have you seen?

【answer】

Well, this is actually more comprehensive in the group I saw in the previous experience. In fact, in my usual process, I have not been so careful to divide it into so many categories. Basically, what you can see is that A quick guide is quick Start is to describe how to run a thing quickly , so that I can feel this thing in person quickly. This is also the thing that I usually see the most in the general learning stage. Generally, I will, because hearing is false. Seeing is believing, I will start to write it again, I only use it, this is the most used. Then the second one is an introductory article about the product that I mentioned earlier. In fact, I think it is actually a bit like a document to promote the product, and then the detailed documentation of the API. These three should be the most impressive to me. Then I saw that there were indeed some things like FAQ in the previous group . These things are indeed there. Reduce it to a kind of document.

【ask】

Well, then you may have seen this quick start a lot. Can you tell me about the parts of quick start? Just how he usually organizes.

【answer】

Well, generally speaking, because it is like a software library, it will usually be installed first. If it is the type that needs to be installed, he usually puts it in front to tell you how to install it, and then if there are some, some need to import code. , he may post some simple access, and then some of his sample code, he may give you something similar to the sample code, you can copy it in and you can run it directly. Then some will post a GitHub example project on it, and then you can see some more detailed things there, even if you paste the code yourself, you may paste it wrong . Basically what I see is quick start is these parts.

【ask】

It is like API, which parts are generally composed of, API documentation.

【answer】

For the API documentation, it is generally a little more complicated. He usually sends a large function package on top, and then there are basically many of them in it. In fact, they are generated by automatic generation tools. There are many classes, and what is the interface of each class? Then the description definition, the requirements for input and output parameters in each interface , and then what function does it accomplish, and as I said about the x Java documentation, he does a better job, that is, most of his APIs are Comes with a diagram to describe what it does.

【ask】

Well, yes, very good, that means that you may have been reading it very seriously. Well, the next question is about the source of this information, that is, where do the documents you usually read come from? How did you get it?

【answer】

Well, like some internal forums of the company, and then some information websites in the industry, such as Info Q , etc., and then there are some architect summits, you may know, many people from Internet companies Maybe I will share some of my more advanced things, and then I can find some corresponding things in his industry, and then when I read some articles, I will occasionally see some technical things. Basically these channels, basically rely on various communication, that is, the people around me spread more to me.

【ask】

Is there a situation where you actively search by yourself, such as searching for documents through a search engine?

【answer】

Well, at this time, it is basically clear what to search for, that is, for example, I must know the name of a certain software or library before I search, because the search engine has to search for something I don’t know at all. ah, I really don't know how to search.

【ask】

That search is generally still based on keywords, right?

【answer】

Yes, I can't find a particularly good thing to see this, some comparisons, for example, if I want to search the picture library, I may also search for this kind of thing, such as the Android picture library , i OS photo library, I can search for this kind of thing. But like some things like application programming frameworks, I don't know what to search for. I said that what he found was like some vague things. Most of the things he found were not the same things I thought.

【ask】

Let's just say the search didn't work very well.

【answer】

【ask】

Oh, then do you usually read the first few pages or the first few articles after you search them out? Generally, what about the first few?

【answer】

Well, I'm actually not very good at answering because I don't read much, but I do know that every time a library comes in, he really makes me decide whether or not to continue to understand his stuff . This, that previous part of the product documentation . I will not look at its more detailed things, I will definitely look at its product documentation, like X Java , he will tell me, he is a reactive, like some image libraries, he will tell me that I have multiple levels of cache , and then how good my performance is, then this thing may be a point that attracts me, and I will continue to look down.

【ask】

Hmm, so is the search engine you are used to using Baidu? Or Google?

【answer】

Google.

【ask】

Well, okay, the next question is about this reading habit, that is, how do you usually read a document after you open it?

【answer】

Basically, my reading order is actually related to the organizational structure of its website, that is, basically I read it from top to bottom.

【ask】

Do you read it from top to bottom, or do you read it by jumping?

【answer】

meeting.

【ask】

It will be different, right?

【answer】

Yes, yes, because some websites are actually doing very well, just like I said before, they will be very complete with a lot of bias towards this, that kind of mentality that is even a bit like selling products, let me introduce to you It's very detailed. I'll give an example. For example, it's like Google. Google 's official documents for Android . As an official, he will describe its advantages and some disadvantages in very detail. For example, that, For example, Google may be pushing some internal data a week ago, or some of the recently released compose , similar to the home page of this kind of development, the home page of his website is actually very much like a product promotion page Like, if he is like this, I can catch his point at a glance, I understand, I don't need to look back, I can know what this thing is, and then I will pick the part I am interested in Read on, it also has a good guide on that. It is every module I care about, and then he is introduced in more detail. But there are some websites. It may be a very simple website. When he comes up on page 1, he may simply describe what problem he is solving. It may be a textual description. Then this thing , I actually don't know what its advantages and disadvantages are after reading it. At this time, I will jump to see what problem he solves, what function does it have, and maybe even jump to the API side to simply look at what he does. The less straightforward it is, the more I may jump to see it. If he were more straightforward, I might have followed its lead.

【ask】

Well, it also has something to do with the organizational structure of the document itself.

【answer】

Yes, there are indeed many varieties of this.

【ask】

Then you should also encounter some problems during the development process. When you encounter problems, how do you usually solve them?

【answer】

Hmm, some of the problems I encounter in most cases are generally solved by myself. If I really encounter a bit beyond my understanding, or if there are some inexplicable proactive problems, I usually The first reaction is to search directly on Google, and then search for the front. If it is like some proactive problems, basically like this specific problem, it will basically fall on the stack overflow. I think it can basically be here. There are some solutions, and then for some technical and difficult problems, I basically discuss more with my partners, because those problems may not be available, and there are also some keywords and conditions for you to search. Difficulty, and then discussed it. If there is no result, I can only go back and think about it myself. Then I will go further according to the learning attitude and see if I have problems with understanding some of the surrounding knowledge points, and then search by knowledge points.

【ask】

Is there such a situation, that is, you will go back and look at the document to see if there is a solution in the document. Is there such a situation?

【answer】

Well, yes, this will definitely be, that is, if, for example, he may indeed be using a certain library, for example, you should be talking about the use or problem of using a certain library, that is, if a certain library is used. It's just that the interface I adjusted it ca n't achieve the expected effect of my use, then I will definitely go back and look at the development documentation.

【ask】

Well, okay, I will ask you a question about the expectations of the documentation experience in a few minutes, that is, the documentation experience is an integral part of the developer experience, and then we want to know about the developers, they An expectation for the documentation itself is what kind of documentation do you think constitutes a good developer documentation?

【answer】

Well, first of all, point 1 I think the most important point is that it is new enough. For example, if an API is modified or removed, etc., it must be able to synchronize it at any time. This is still better for many things including open source and some relatively large things, but in For some relatively small libraries, he may not mention it in a timely manner, and then it is slightly better for some open source software, because many of their documents are automatically generated, but his description may not be accurate. So this is the second point, which is whether the description of his specific function is detailed and correct. Then the last point I think is what I said earlier, whether it can attract a new developer and can quickly understand your thing, it is more like the thing that is biased towards product evaluation, I think the most important thing is this. In fact, this kind of developer documentation, in fact, the biggest thing I said is that one is generally recognized in the industry, and then the second one may be some small open source software, and then the third one is actually some internal company documents, but instead In fact, in my opinion, the internal documents of the company are the most problematic among the three. Ah, the biggest problem is the reciprocal of the three points I mentioned just now. You may have built some libraries and these things, but the people who do these things lack the corresponding maintenance awareness, and then the real-time entry of his documents will often fail to keep up. There is no difference, and then the second point is his description. Generally, if you write a document like yourself, if you don't have to open the software, many of its document descriptions are just a few sentences. In fact, you don't know what he is. What are you doing, and then the third point is to take the time to write such a detailed one, so that you know what your selling point is, unless it is something like a company report . So the open source software is actually I think his documentation is relatively well done, of course, there are some software of some libraries, which may be relatively second. Most of them do, and those that are open source are generally better, especially ones like Google's.

【ask】

selling point you are talking about is that he lists the technology and the advantages of this product at the beginning of this document, and then he can convince you to use this product through this text, right?

【answer】

That's right, what's the difference between him and other products of the same type? What is the core problem he solves? Which problems he solves incidentally, and which ones he most wants to solve.

【ask】

In other words, if you want to get straight to the point, you can make it clear and show your advantages. Well, let me ask another question about design, that is, documents are usually placed on the website. Do you have any expectations for the interaction design of this document?

【answer】

My interaction design for it is actually closer to the point in the process I mentioned to him just now. In fact, I prefer him to get straight to the point and list the advantages and disadvantages. So I hope that he can actually use this, the most perfect document in my heart, must appear in this form, first the highlights and differences of its products, and then generally introduce his quick Start, and then list their various function points according to his core function module, and then finally gave me a clear and detailed API guide, and finally the FAQ.

【ask】

Hmmmm, okay, um, then there is another question about the document language. I would like to ask if you usually read English documents or Chinese documents a little more?

【answer】

Well, when there is a translated document, I will definitely read the translated document first, and then if there is no translation, I will read the English.

【ask】

In general, you read more English, right?

【answer】

No, in fact, I read more Chinese, because really, it is the thing with so many technologies that can settle down and be used in engineering, in fact, some unknown or relatively niche things, I will worry about its stability, but I use it less. Generally speaking, I will use it more when the people who use it the most will use it more, which is why I will think about it when I look at his documentation. A group, this is called relatively universal, and then these things have been translated by people, and most of them have actually been translated by people.

【ask】

Hmm, what do you think of the quality of this translation?

【answer】

Well, I think the general translation quality in China is still acceptable.

【ask】

Is the translation official? Or are there some folk translations by enthusiasts?

【answer】

Well, in fact, in my opinion, there are actually more folk translations.

【ask】

Well, do you find it difficult to read English by yourself?

【answer】

Well, how to say, basically enough.

【ask】

Well, you can read it, right?

【answer】

Yes, I can read it. If there is something I don’t understand, Google translate it. I don’t think it’s a big problem.