## Why Just JavaScript Exists for You

Most courses teach you to \*write\* code.

write it well?

model!

Hello Cai,

That's obviously important.

But over the years, as I interviewed candidates and

answered users on GitHub issues, one thing became clear to me. So many problems are because we, even many years into programming, don't \*read\* code correctly.

Programming education researchers said this for years. My method is not directly based on this research (I only learned about it a few months ago) but look at

@GregNN's dissertation. If we don't teach \*reading\* code, can we expect people to

I wasn't familiar with the research so of course I had to take a long convoluted route to arrive at a similar conclusion. For me, it was a personal path of fear and confusion. It took me many years of writing JavaScript to

feel like I'm \*confident\* in what a piece of code does.

differently than before—and differently from someone

have an intuition, a memory of how each concept—

variable, object, function—behaves exactly. A mental

who keeps making the mistakes I used to make. It's like I

For me, the key realization was that I read code

I realized that mental models play a huge role in how we read code. They're not necessarily visual (they're more like intuitions—like you "know" how a door handle, a teapot, or a browser address bar works). Still, it's convenient to express mental models visually for discussion. To read a program correctly, in our minds we need to simulate the computer. But to simulate it correctly, we

need to have a correct intuition about what each

instruction does, and how each concept works. For

example, take variables. Here's two popular ways to

Most of us probably don't "imagine" things like this in our

heads. (I actually can't imagine something visual at all.)

"think" about them.

models.

pet - "Norshol" let pet + "sorwal" pet : "the Kraken"

misconceptions.

In our brains these intuitions are a lot more compressed. But they exist, and are often wrong. A small mistake in a mental model causes many bugs over the years. So what's unique about Just JavaScript? It places the focus on mental models. We revisit the concepts you already know and use every day—expressions, different types of values including null and undefined, objects, variables—and find mistakes that crept into your mental

To introduce our mental models, we use illustrations

and animations (by Maggie Appleton). Our visualization

isn't the "only right way" to show JS, but we've made

many intentional choices in it to avoid common

Just JavaScript is not a passive reading experience. In key places in the text, we ask you to pause reading and \*sketch\*. Sketching is a key part of Just JavaScript. It's a way to explore your own ideas about how the code works in your head—and find when they lead you astray.

Key chapters end with interactive quizzes. Many of

misconception, it creeps into your sketches. This lets us

Now, what's up with this "universe" thing from the landing

format or content, and it is also not a regular JS course

in style. It places you \*into\* the imaginary JS universe.

provide you with feedback and explain \*why\* you get

bugs, and how to think about code differently.

page? You see, that's another way in which Just

JavaScript is different. It is not a regular JS course in

these quizzes involve sketching, too. If you have a

JJS Explore the JavaScript Universe Rebuild your mental model from the inside out.

Some readers hate the whimsical and quirky aspects of

Stylistically, it borrows from several genres. Of course, it's

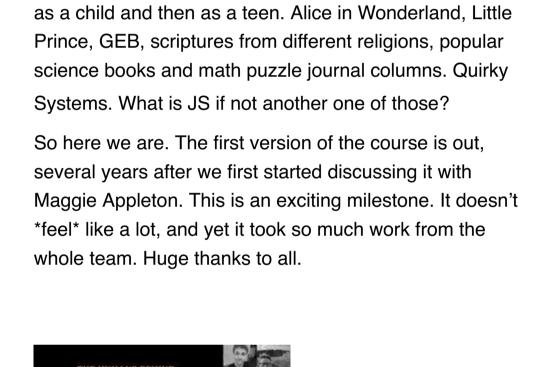
a technical course. But some parts might remind you of a

In my head, I kept getting back to texts that inspired me

it, but I'm okay with that. (Feel free to get a refund!)

Dan Abramov & Maggie Appleton

children's book. Or an astronomy atlas.



If the project receives enough support, we hope to work

more on it. There are two primary ways the scope of Just

content on the many topics we haven't covered yet. But

One experiment I am exploring is to make the sketching

experience itself more interactive — like sitting down

with an experienced mentor. What if you could make

mistakes, see their consequences, and then correct

Here's another experiment, where you have less

works. This is animation on steroids. You \*are\* the

helped a lot of people (it was free for months, and we

coding bootcamps). It will take a lot of time to take it to

Oh fun fact. It's the first time I'm selling something other

Click here to level up your mental models with Just

This is a special release price that ends at the stroke of

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12333 Sowden Rd Ste B, PMB#97429, Houston, TX 77080-2059

heard good things from both individual learners and

Your support (\$\$\$, RTs) makes it sustainable.

than time to more than a single person.

midnight (Pacific) August 1st, 2021.

JavaScript for 40% off.

"creative freedom" but more insight into how the system

JavaScript could be expanded. One is to write more

there is also another dimension I want to explore.

I don't know what the right approach is yet. I only know there is some medium at the intersection of text, animations, sketching, and direct interaction, that works better than either of those four in isolation. I will dig more into research, find it, and bring it into JJS vNext. I'm proud of where Just JavaScript is today. It already

them?

system.

next stage.

Thanks.

Dan

**Emails** 



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