

WEB DEV

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# INTRO TO JAVASCRIPT

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# WHAT IS JAVASCRIPT?


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**JavaScript** is the language for adding interactivity to a web page—based on user actions or events from the user (or other conditions, like a given amount of time since load).

It's the muscle & brain of the web. Like HTML (the bones) and CSS (the skin), it is ultimately just text that is parsed by our browsers.

In many ways, it is **the backbone of the web**.

# WHO CREATED JAVASCRIPT?

 Wikipedia  
[https://en.wikipedia.org/wiki/Brendan\\_Eich](https://en.wikipedia.org/wiki/Brendan_Eich)



**Brendan Eich**

Brendan Eich is an **American computer programmer and technology executive**. He created the JavaScript programming language and co-founded the Mozilla project, ...

People also ask

What happened to Brendan Eich?

Who is the father of JavaScript?

What is Eich's net worth?

Why did Brendan Eich create Brave?

What is the controversy with Brave browser?

Does Firefox support LGBTQ?

Feedback

## Covid comments get a tech C.E.O. in hot water, again.

Brendan Eich's opposition to same-sex marriage cost him his job at Mozilla. Now his doubts about the pandemic are getting him in trouble at the start-up Brave.

 Share full article  



Brandan Eich, chief executive of Brave. Patricia De Melo Moreira/Agence France-Presse — Getty Images

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## **98.7% OF WEBSITES USE JAVASCRIPT IN SOME FORM**

This includes everything from simple scripts, static websites with animation, to full web apps like Gmail, YouTube, Twitter, and Figma.

It's responsible for dynamic content, animations, UI interactions, and fetching data without page reloads (AJAX & APIs).

**It is the only language that can change webpage content without requiring a refresh.**



# IT IS EVERYWHERE

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# WHAT IS JAVASCRIPT?

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## VANILLA JAVASCRIPT

```
let flavor = "vanilla";

div.addEventListener("click",
showFlavor )

let showFlavor = (flavor) =>
console.log(flavor);

showFlavor(flavor);

// vanilla
```

## OTHER THINGS

### Component-Based Frameworks

- Svelte (The Guardian)
- React (Meta)
- Vue (Evan You)

### Compilers:

- Webpack
- Vite
- Rollup

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## OTHER THINGS

### JavaScript Libraries

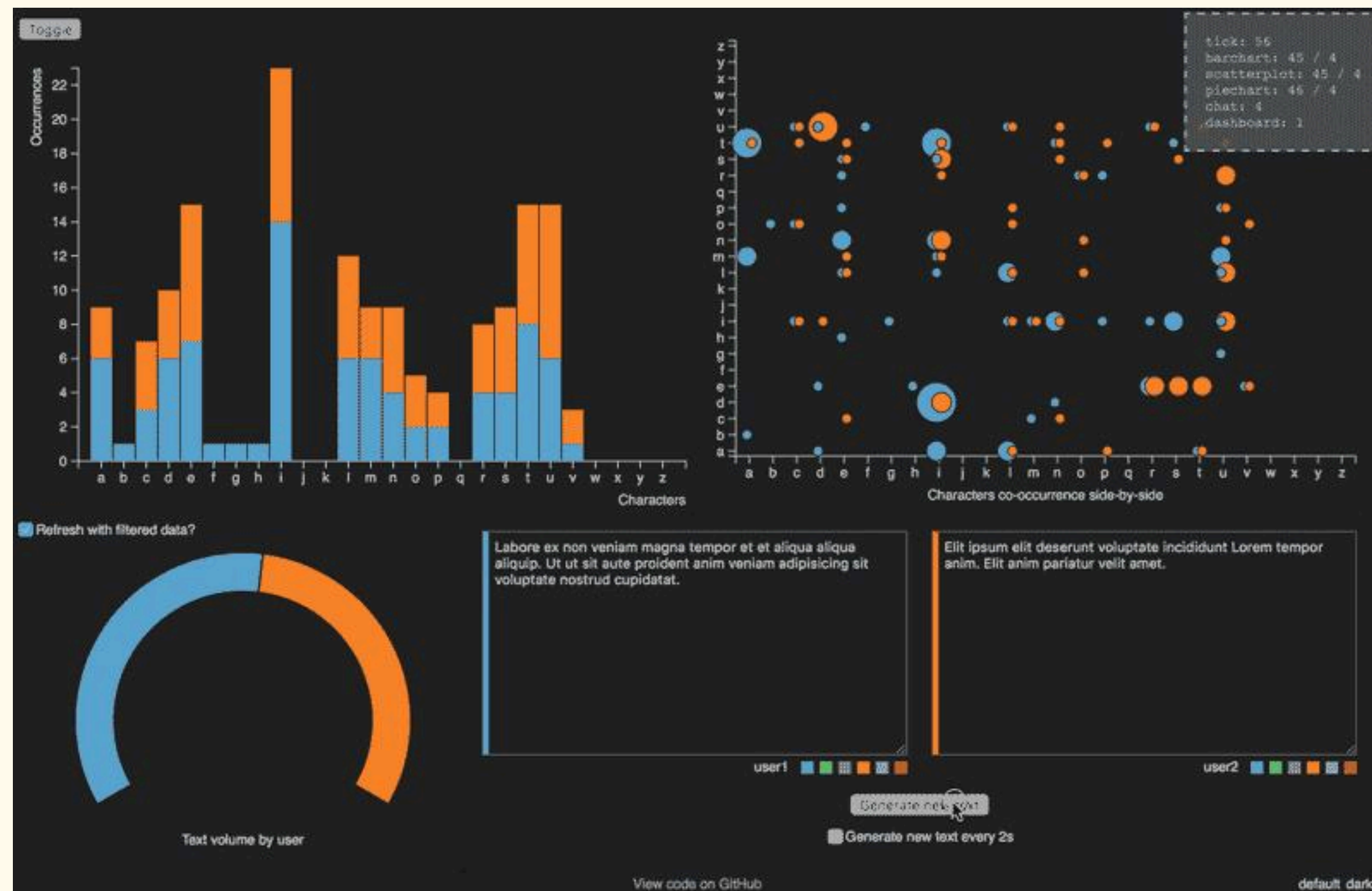
- p5.js
- D3.js
- GSAP
- Leaflet
- Mapbox GL JS
- TimelineJS
- DataWrapper
- Three.js

# WHAT IS JAVASCRIPT?

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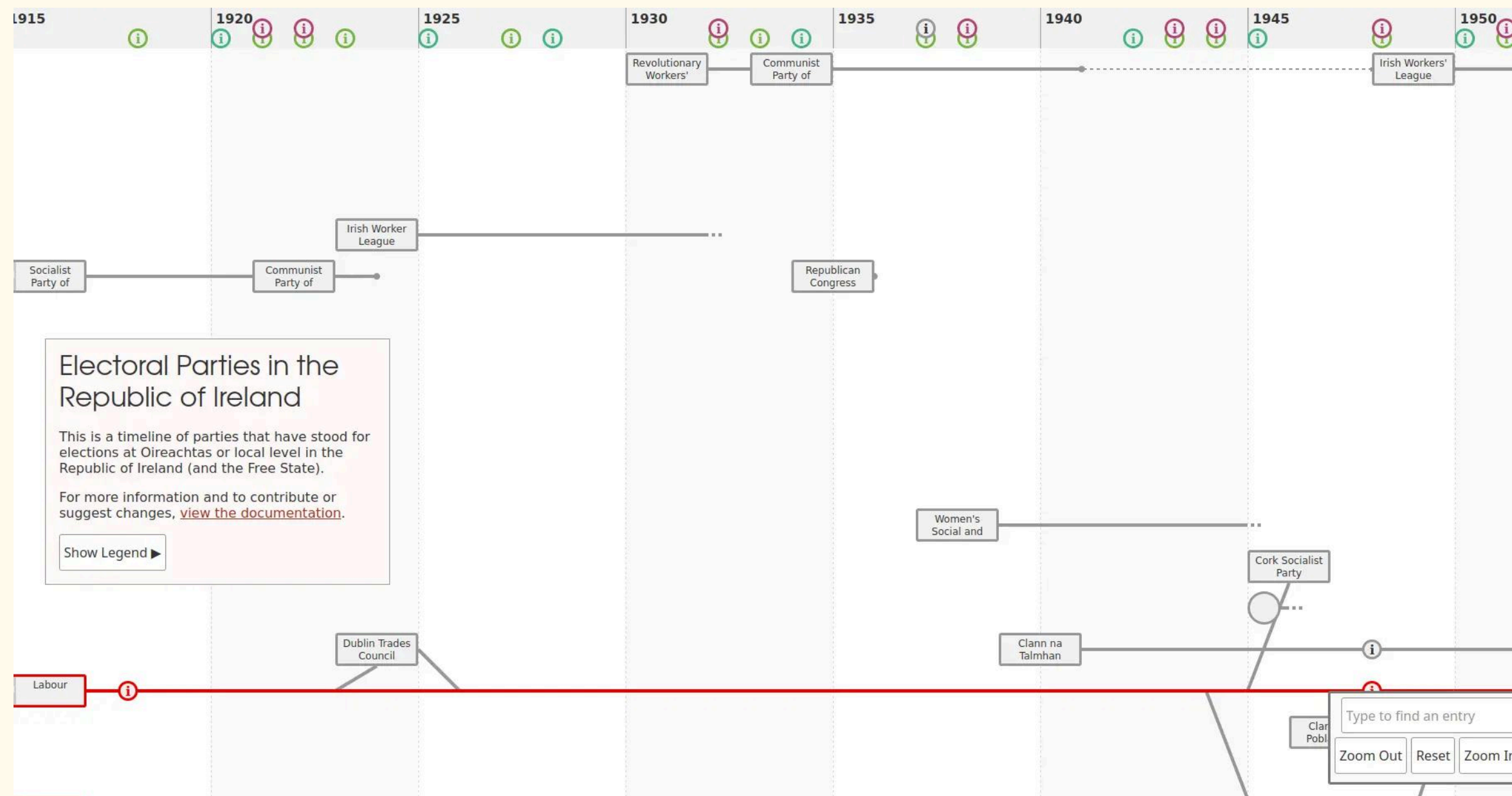


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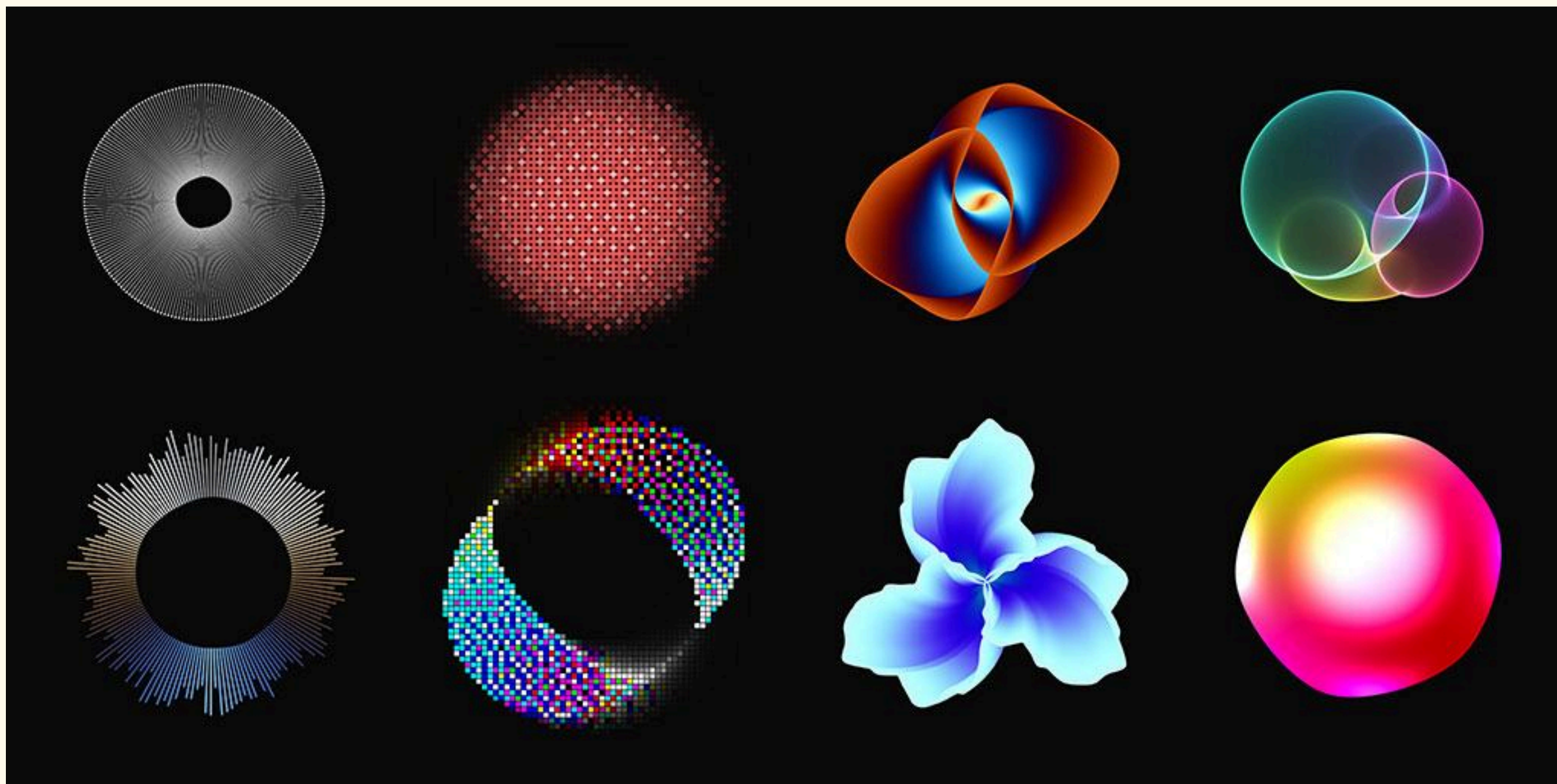


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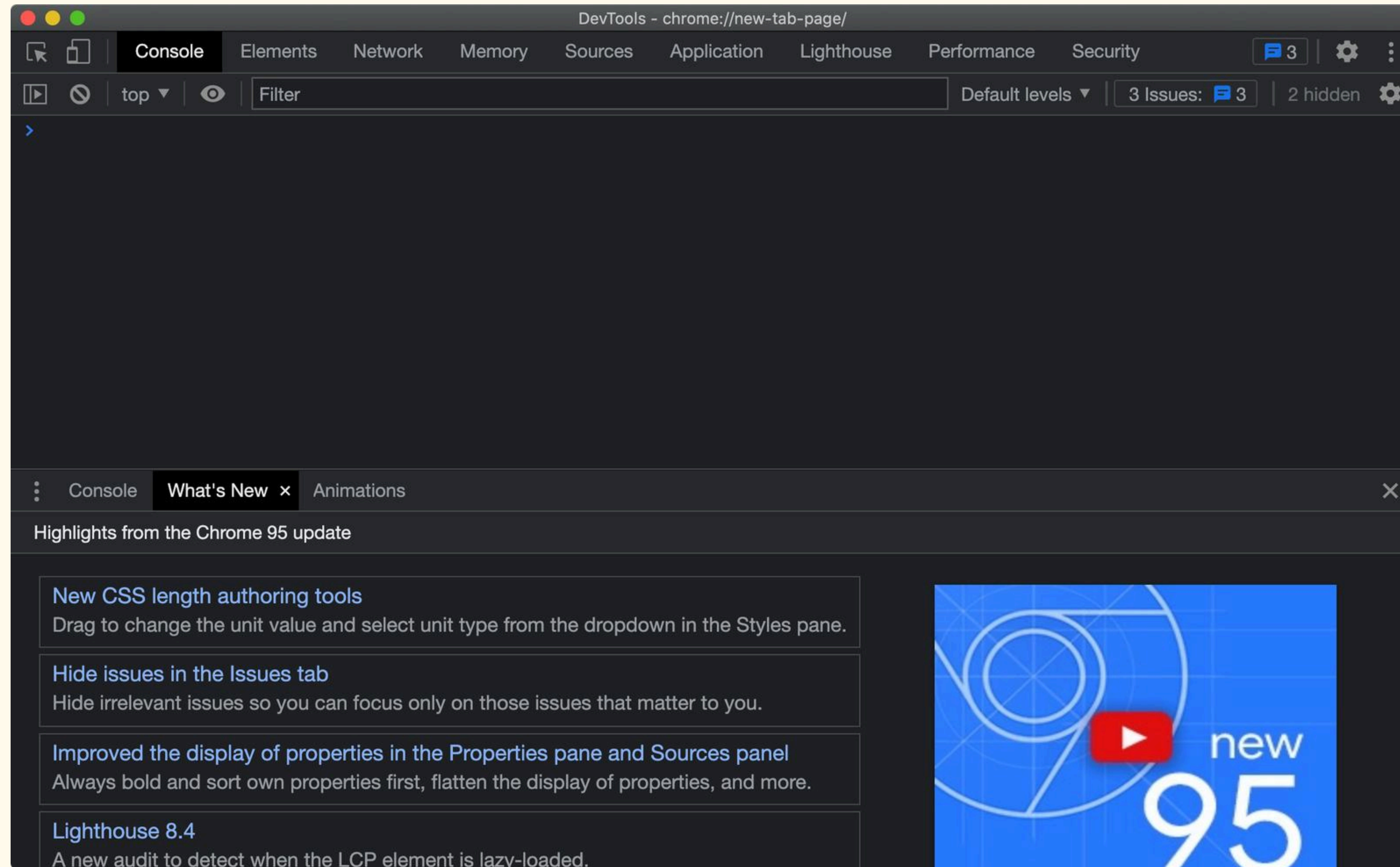
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# THE CONSOLE



TODAY WE'LL LOOK AT

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**DATA TYPES**

**VARIABLES**

**ARRAYS**

**RANDOMIZATION**

**CHANGING THE DOM**