

How I Stopped Worrying and Learned to Love Javascript

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So I love [Jupyter Book](#). It's a great way to build a beautiful website with Python. You can add beautiful interactive charts with one of the many plotting libraries supported by Python such as [Bokeh](#) or [Plotly](#).

But if you want to make things REALLY interactive, you need to add some Javascript. [Holoviz Panel](#) allows you to embed Javascript callbacks to charts and widgets which can then be added to Jupyter Book. It's great! I've been experimenting with Panel for a while, but I ended up learning so much Javascript that I started wondering why I don't just do everything in Javascript.

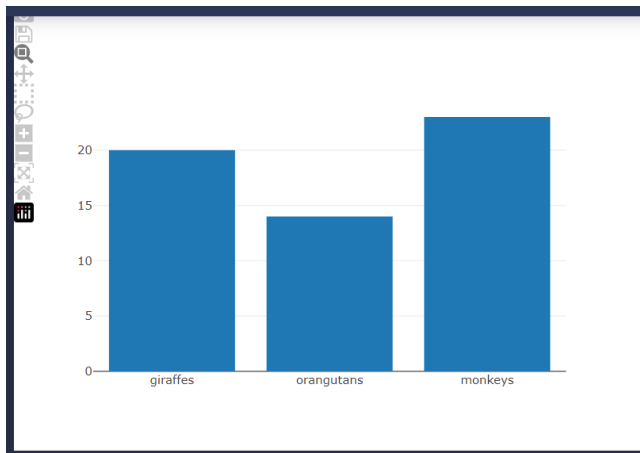
But then I remembered the beautiful LaTeX PDF documents I created with Jupyter Book, and decided to stick with Python.

But then I learned about [Myst JS](#)! And I thought, what if I build a website in Javascript and used Myst JS to convert it to PDF!?

It Worked!

[A PDF Version of this page](#)

Some More Markdown



I can do equations with \LaTeX :

$$\frac{x}{x-1} < r_{23} \quad (1)$$

Also inline: x_{i-1} So far so good!

What about this Javascript components?

For some reason, inline math doesn't work when passed to a Svelte component using the slot method ($x+1$), but double dollar signs do work:

$$x_{i-1} + 1 < 5 \quad (2)$$

Going to try using Mathlifier. Incidentally, Markdown links don't work inside slots either.

Codeblocks seem to work fine

```
import { onMount } from 'svelte';

let headerText;

export let plotHeader = '';

export let data = [{
  x: ['giraffes', 'orangutans', 'monkeys'],
  y: [20, 14, 23],
  type: 'bar'
}];

onMount(() => {
  headerText = 'A Chart !';
  let plotDiv = document.getElementById('plotDiv');
  let Plot = new Plotly.newPlot(plotDiv, data, {}, {showSendToCloud:true});
});
```

Credits

This website was built with [SvelteKit](#), [Skeleton](#), [Tailwind](#), [Plotly](#), [MDsveX](#), [rehype-katex-svelte](#), [remark-math](#) and [MyST](#)!

References