How I Stopped Worrying and Learned to Love Javascript

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`svelte:head`

How I Stopped Worrying and Learned to Love Javascript

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.

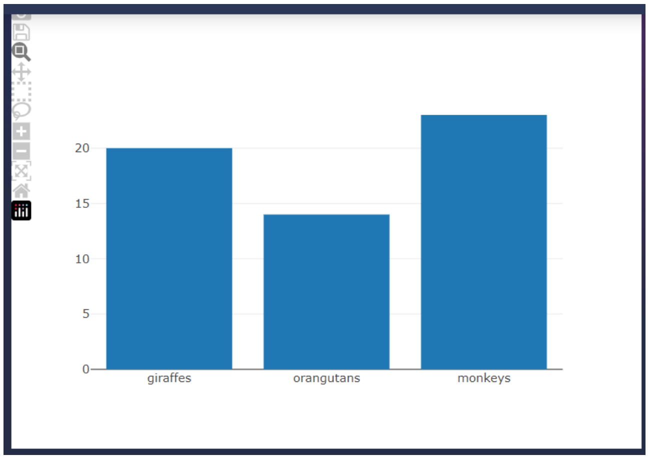
But if you want to make things REALLY interactive, you need to add some Javascript. Holoviz Panel allows you to embed Javascript callbacks to charts and widgets which can then be added to Jupyter Book. It's great! I've been experimenting with Panel for a while, but I ended up learning so much Javascript 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!?

A PDF Version of this page

This website was built with SvelteKit, Skeleton, Tailwind, Plotly, MDsveX, rehype-katex-svelte, remark-math and myst-js.



Some More Markdown

I can do equations with LaTeX:

$$\frac{x}{x-1} < r_{23} \tag{1}$$

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

What about this?

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:

$$x_{i-1} + 1 < 5 \tag{2}$$

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

```
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});
  });
```

References