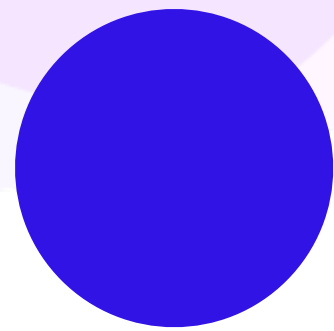


# Svelte ❤️ D3 ❤️ Performance



Matthias Stahl, Ph.D.

Data visualization specialist at higsch.com

@h\_i\_g\_s\_c\_h

# I guess you have heard about Excel

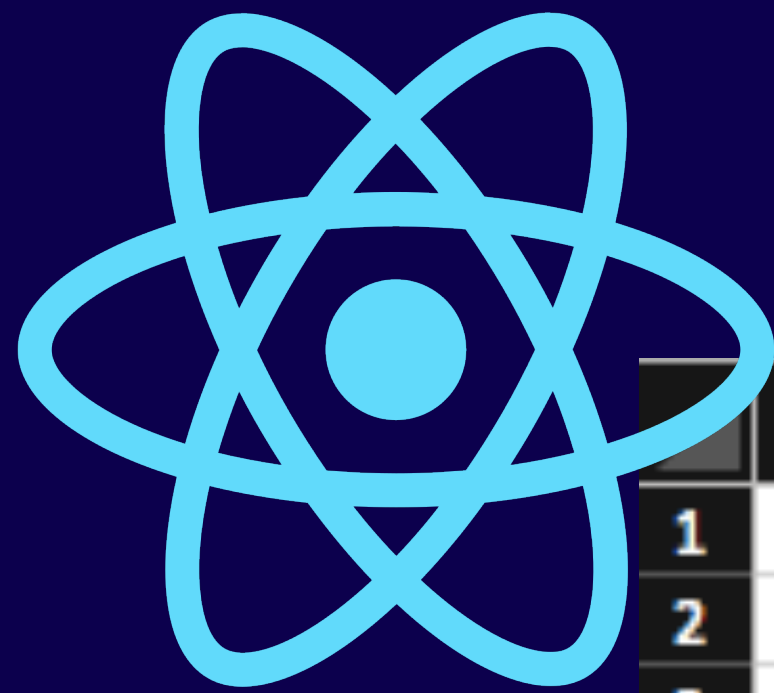
	A	B	
1			
2		1	
3		2	
4		3	
5		4	
6			
7	Sum	10	
8			

# I guess you have heard about Excel

	A	B
1		
2		1
3		2
4		3
5		4
6		
7	Sum	10
8		

	A	B
1		
2		1
3		2
4		3
5		10
6		
7	Sum	16
8		

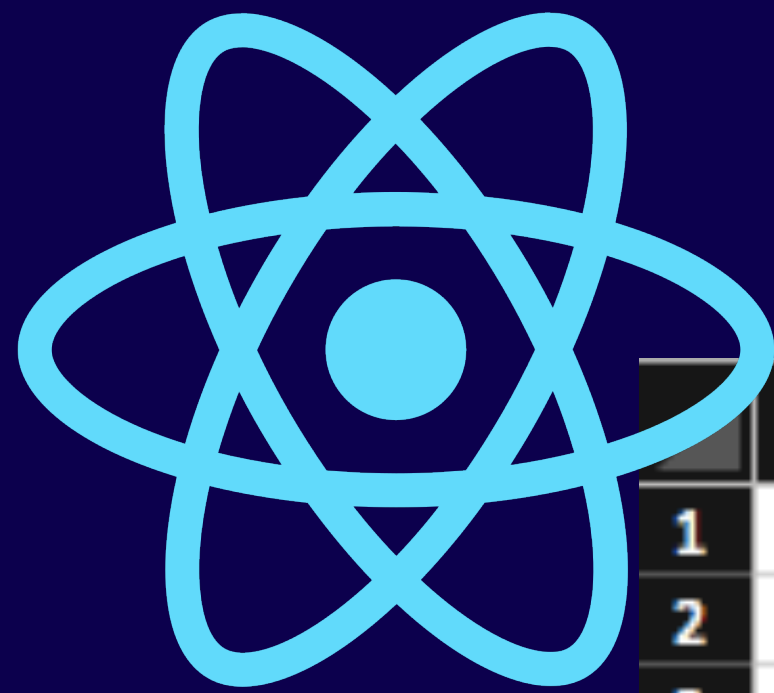
# I guess you have heard about Excel



	A	B
1		
2		1
3		2
4		3
5		4
6		
7	Sum	10
8		

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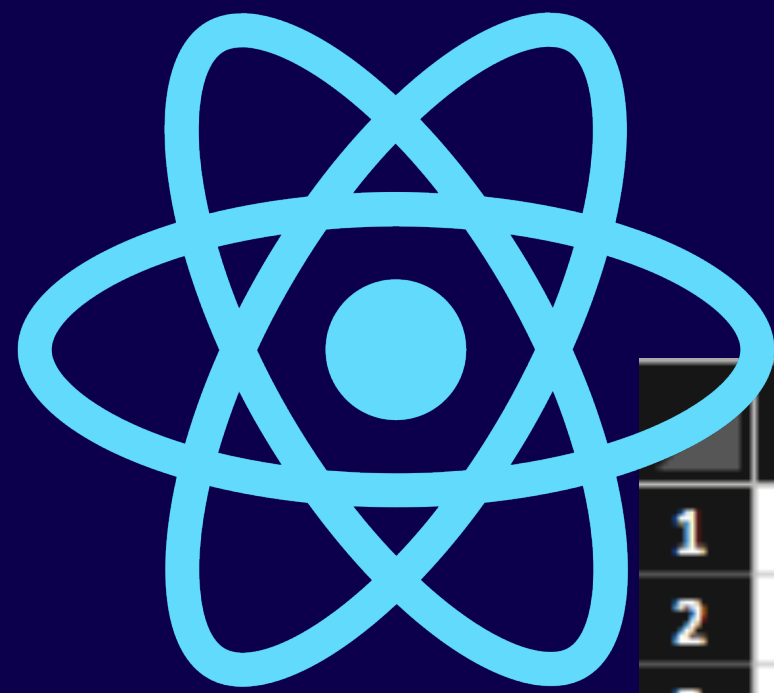


	A	B
1		
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6		
7	Sum	16
8		



# But *why?*

# In fact, I borrowed the spreadsheet example



The screenshot shows a video player with a presentation slide on the left and a live video of a speaker on the right. The slide features the word 'SVELTE' in large letters, with a red 'no' symbol over the 'V'. Below it, the text reads 'adjective **/svelt/** attractively thin, graceful and stylish'. A code example shows a Svelte component with a button and a text element, with an arrow pointing to the corresponding JavaScript logic. The video player interface includes a progress bar, volume control, and a 'Wiedergabe (k)' label. The background of the video shows a speaker at a podium with a 'You Gotta Love Frontend Code Camp' sign.

SVELTE

adjective **/svelt/** attractively thin, graceful and stylish

```
<button on:click={handleClick}>  
  Clicks: {count}  
</button>
```

→

```
if (changed.count) {  
  text.data = `Clicks: ${current.count}`;  
}
```

YGLF

Wiedergabe (k)

7:30 / 36:44

You Gotta Love Frontend  
Code Camp 2019



# Svelte to the rescue



# Svelte compiles to vanilla Js



# Svelte compiles to vanilla Js



	A	B
1		
2		1
3		2
4		3
5		10
6		
7	Sum	16
8		

# With that we get...

a very small shipping size

# With that we get...

a very small shipping size

no libraries to ship

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a very small shipping size

no libraries to ship

CSS animations on the fly

# With that we get...

a very small shipping size

no libraries to ship

CSS animations on the fly

server-side rendering (Sapper)

# Svelte for data viz!



DOM manipulation

Component style

Actions

Transitions



Scales

Shapes

Interpolations



<https://svelte.dev/repl/d86b3e7af77846fdb510946fce09c71?version=3.24.1>

**How does this work  
in real life?**

#AllAboutWeb

LIVE



# With that we get...

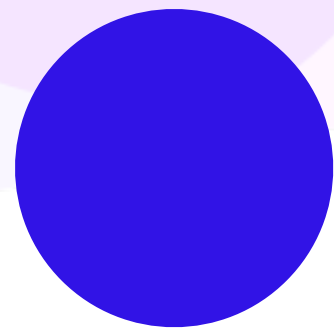
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Human body temperatures

Flight prices

Childhood mortalities

[Human body temperatures](#)   [Flight prices](#)   [Childhood mortalities](#)

**Check this out:**

[LayerCake](#)

[A new technique for making responsive, JavaScript-free charts](#)

[Pancake](#)

[@sveltejs/gl](#)