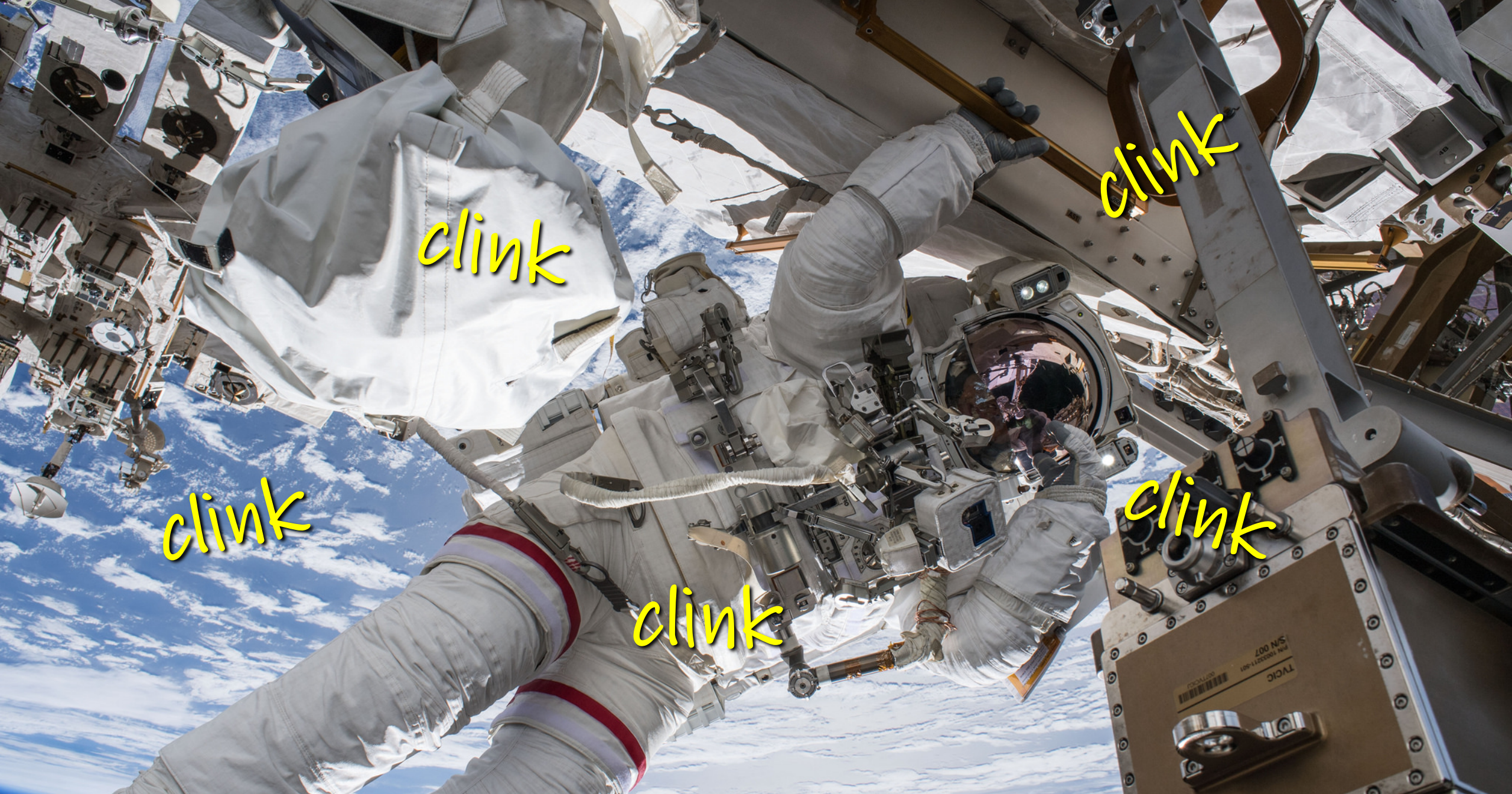




The Wonder of Choice

A reasonable approach to inclusive development



clink

clink

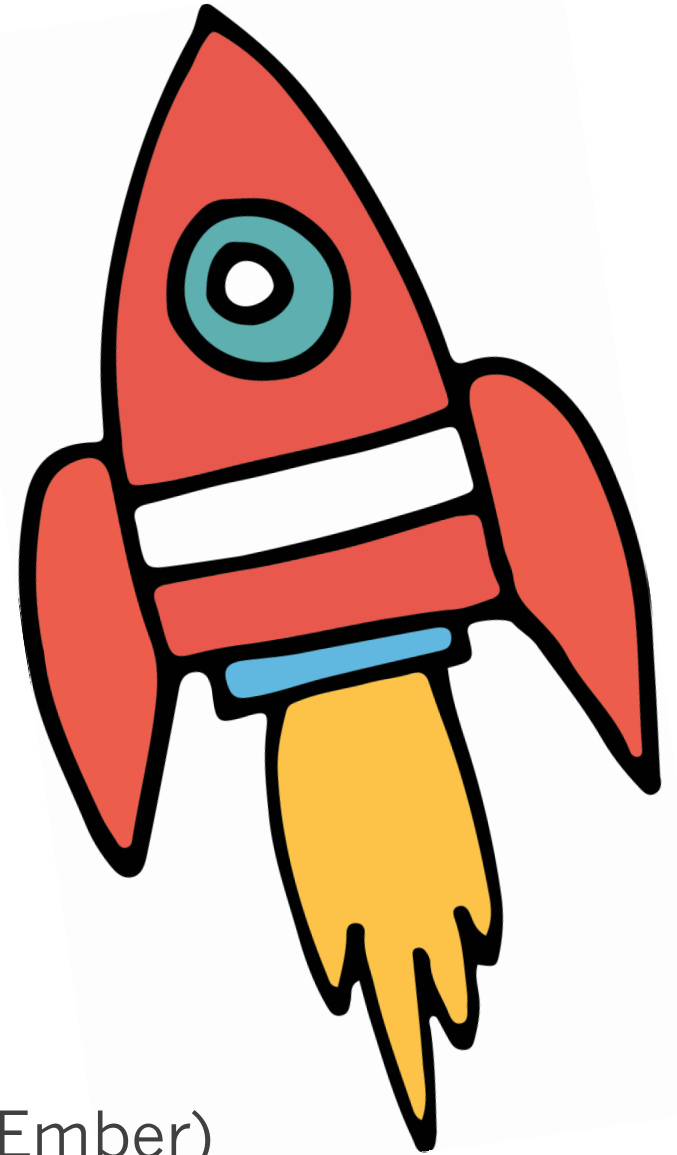
clink

clink

clink

My Own Journey

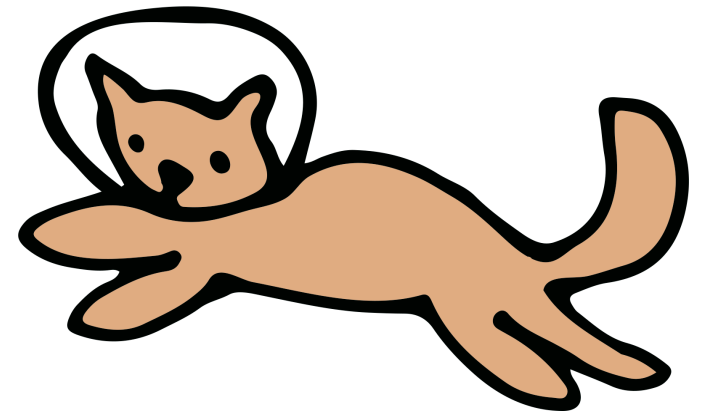
- Static Sites
- Editing Blogger CSS
- WordPress
- WordPress Plug-ins
- Custom PHP web-based applications
- .NET development
- C# development
- JS framework development (Backbone > Angular > Ember)



”

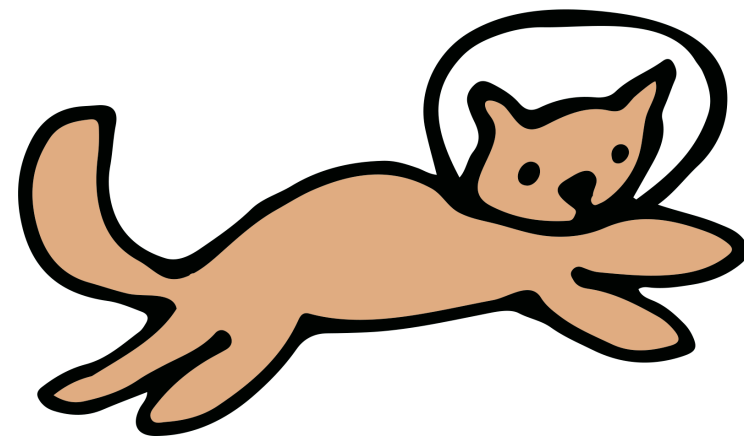
JavaScript does all the
other things you already
know how to do.

It'll be fine.



”

It wasn't.



(What now? Die in space?)





Choose a different mindset.

Remove frustration from the world.



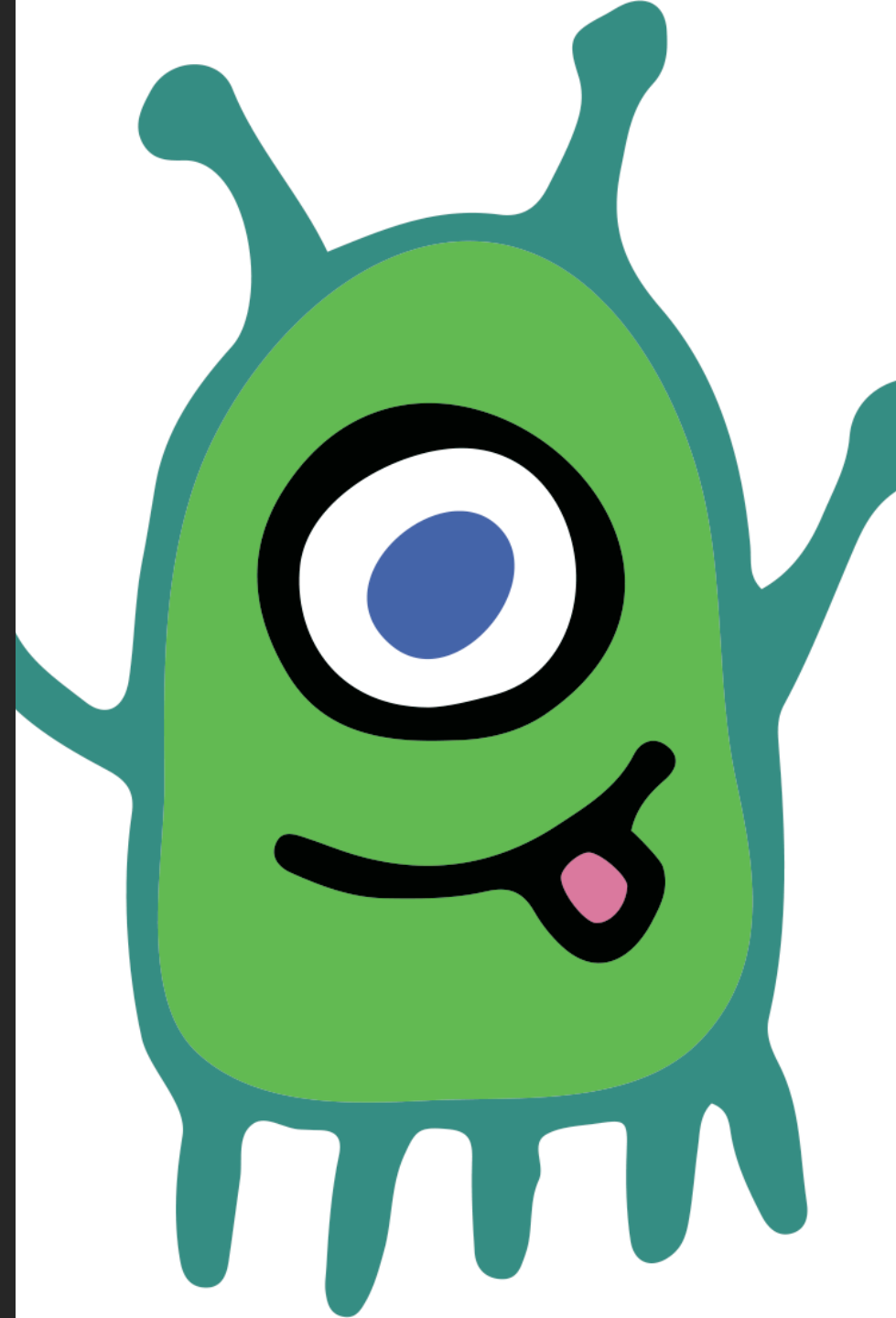


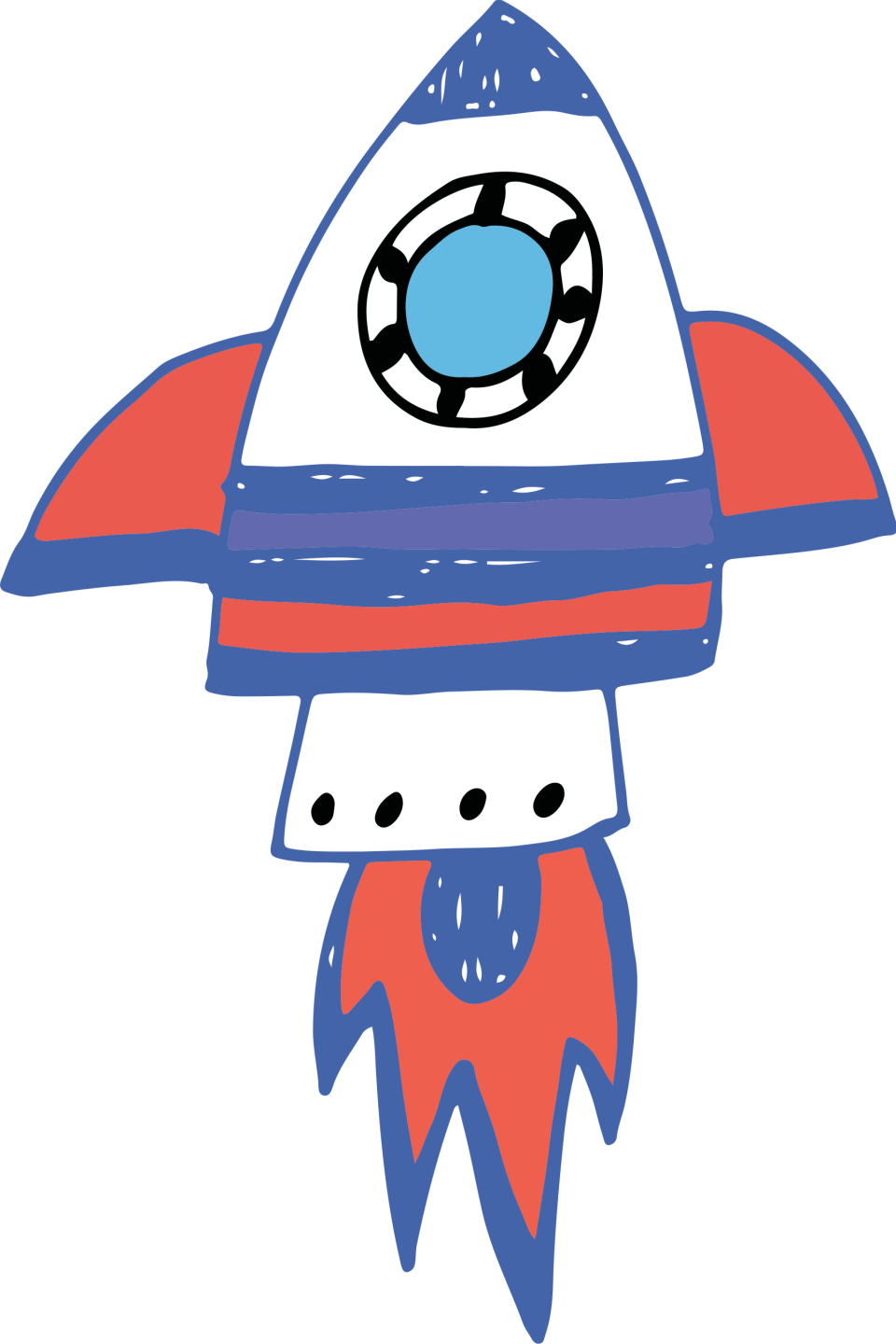
State of Web Development

@melaniersumner

Front-end Developers

Too many front-end developers spend a chunk of their early career **learning from anti-patterns.**



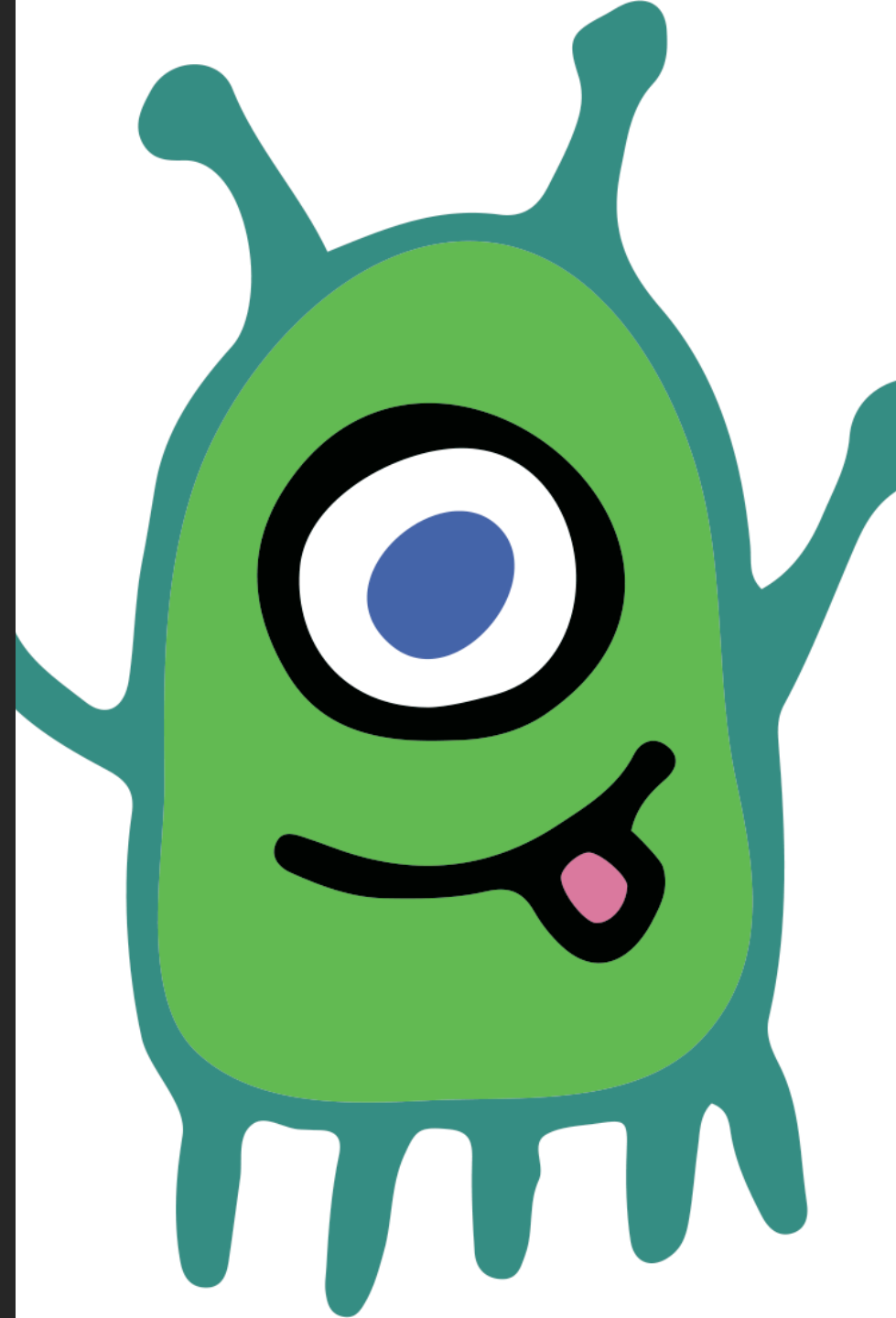


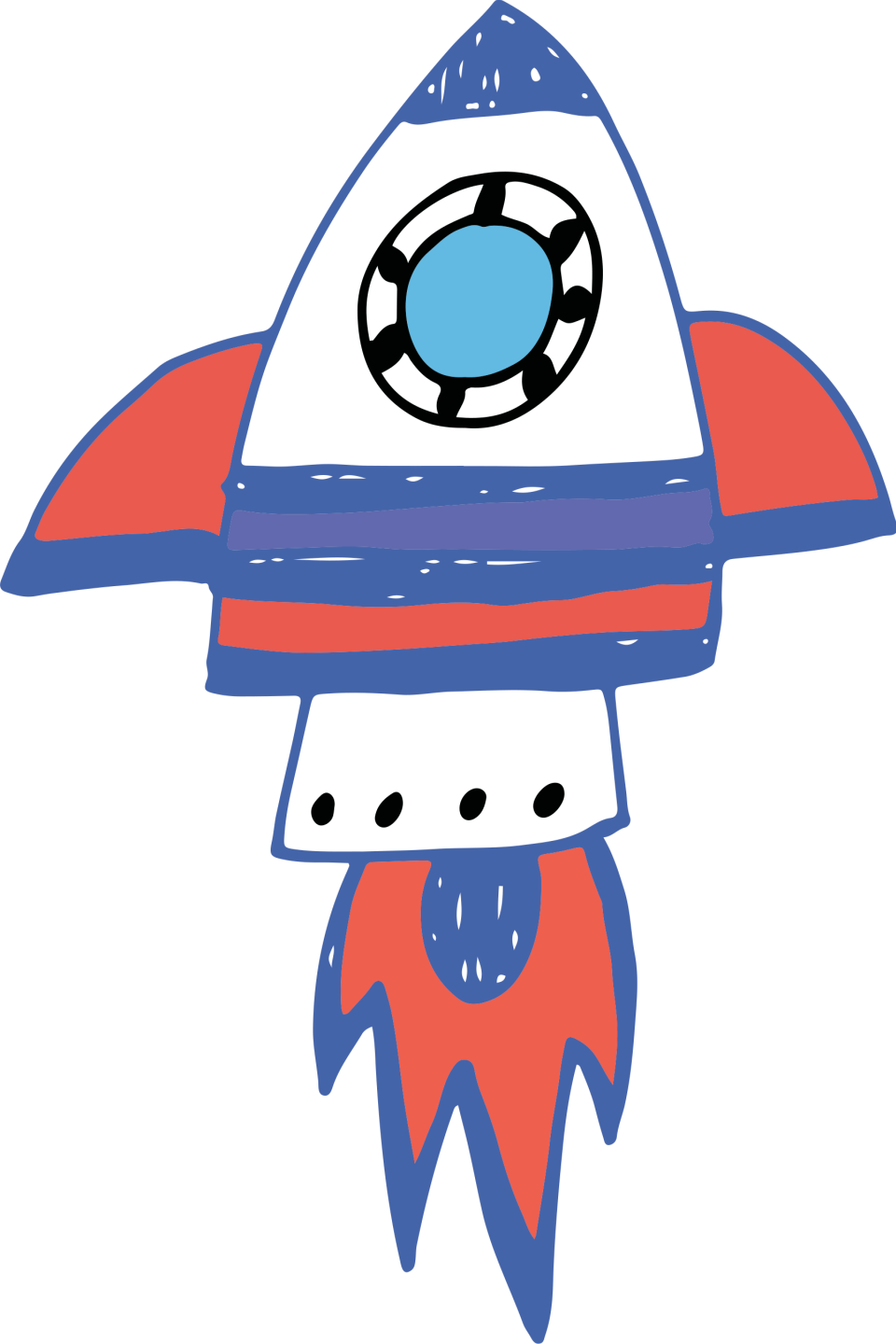
JavaScript Developers

Those developers then build addons.
Useful addons to do useful things.

JavaScript Engineers

But ultimately, they are not useful addons because they are not accessible, which in turn **perpetuates the myth that accessibility is hard.**





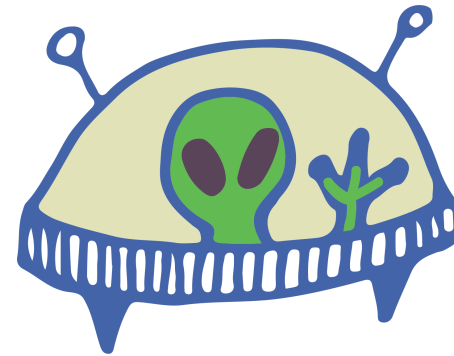
Ninja Rockstar Unicorns

Unintentionally, the developer is now perpetuating anti-patterns, feeding into the **cycle that supports faux innovation**

Innovation...?

**AMP is a web component framework
to easily create user-first ads.**

[Get started](#)



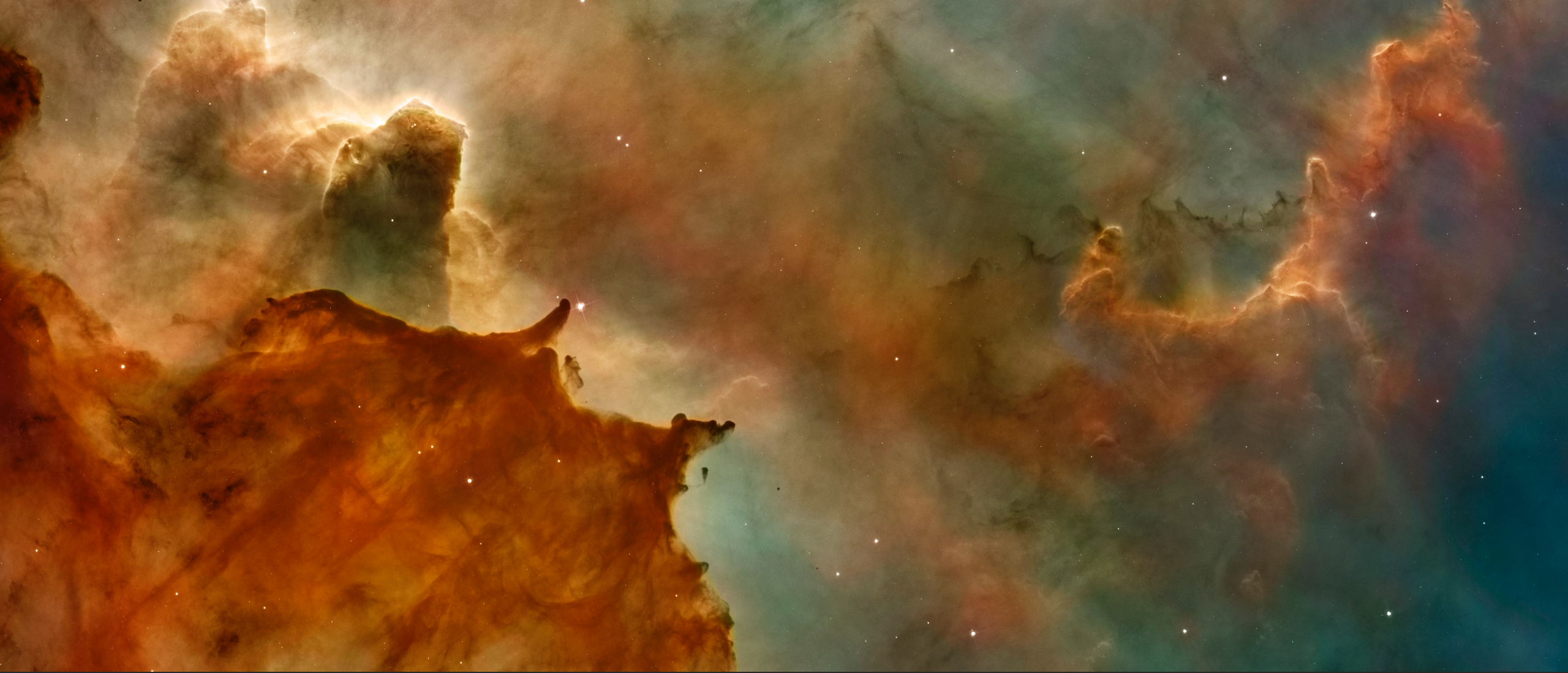
More capable form controls

With a new event, and custom elements APIs, participating in forms just got a lot easier.

Aug 8, 2019

HTML





The Choices We Have

Choice #1: Considering Others



Develop in isolation

Real Conversations

“HTML is a dead language. Just use a div, it’s more flexible anyway. Besides, our users don’t need accessibility.”

“Why do I have to care about less than 5% of my users as the default, rather than the other 95% who can see the page?”

“This is all internal-facing anyway, so we don’t have to care about accessibility.”

”If I was blind, I wouldn’t use the internet.”



**Listen to the experiences of devs
outside the tech bubble**

Real Conversations

“I joined a non-profit to provide services for disabled people, and I really believe in the mission. The problem is, no one on our team knows how to write accessible code. We spend all of our time trying to figure out how to use React as the front-end of our CMS, and that uses AMP, too. On top of that, we’re trying to figure out how webpack was configured by the previous tech lead and there’s a custom Bootstrap integration too- miles of styles for days. One of the leads got frustrated and wrote his own bespoke CSS framework, but now we all have to take time to get familiar with that. There’s just no time for innovation or learning because we are too busy trying to ship for deadlines.”

What can we do?

Think about other developers when we create new platform features.

Think about our users who are blind and also use the internet to do the things we do on a daily basis and don't even think about, like having a job, or banking, or paying utility bills.



Choice #2: How We Create



Copy/Paste StackOverflow

Real Conversations

“Modern software engineering seems very much like going out on the internet and finding little bits and pieces of code and putting them together with a little glue and it might work....and it got me thinking about my children. **What if they ended up wanting to be software developers? What will their coding be like?** Will they enjoy making a good design and implementing it, or will they be the kind of coders who hack away at something and hopefully it works and if it doesn't they try again or give up and move on to another project?”



Craft with intent



What does that look like?

HOW TO CRAFT WITH INTENT

New Feature Request

We'd like a new option added to our super-awesome form! Here are some specs:

- radio buttons for the options
- not one of those ugly radio buttons, a fancy one please
- attached are the the mockups

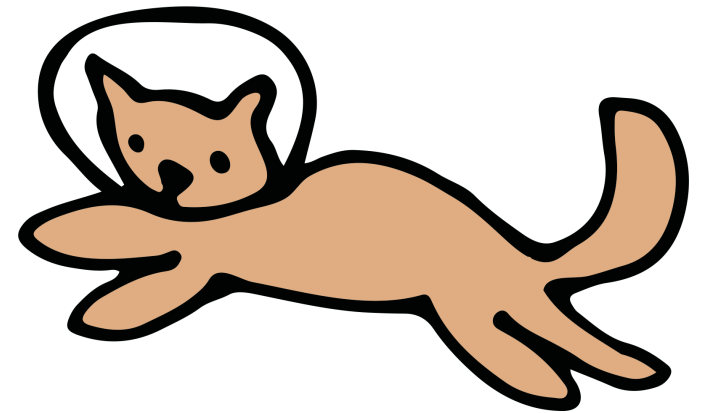
The humble radio button

- Default radio
- Second default radio
- Disabled radio

- Radio 1
- Radio 2

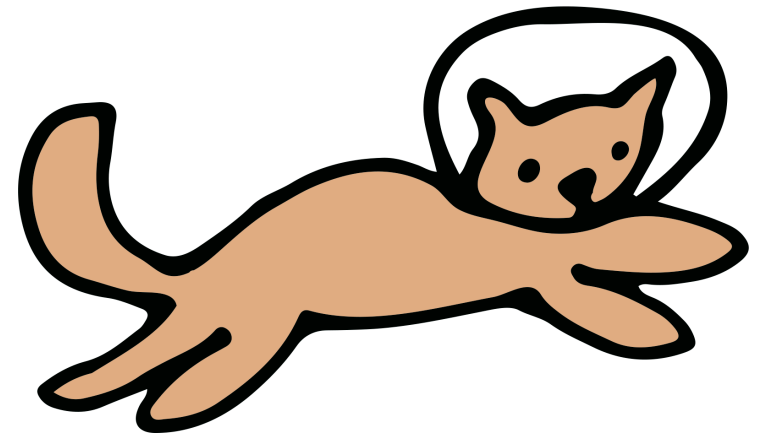
”

I'll just find one that
already exists to save time!



”

Big Tech Co made it,
so it must be great!





```
1 <div class="mdc-radio">
2   <input
3     class="mdc-radio__native-control"
4     type="radio"
5     id="city-chicago"
6     name="city">
7   <div class="mdc-radio__background">
8     <div class="mdc-radio__outer-circle"></div>
9     <div class="mdc-radio__inner-circle"></div>
10  </div>
11 </div>
12 <label for="city-chicago">Chicago</label>
13
```


How much does that cost us?

HTML	CSS	JAVASCRIPT
6 elements	66 selectors	2,374 lines (unminified)
9 attributes	141 properties	30k minified
DOM depth of 3	10k minified	

*** Thank you to @ericwbailey for figuring this out!*

Semantic HTML

```
1 <fieldset>
2   <legend>City Preference</legend>
3   <div class="radio-button">
4     <input id="city-boston" name="city-preference" type="radio" value="boston">
5     <label for="city-boston">Boston</label>
6   </div>
7 </fieldset>
8
```

CSS We Already Have

Preferred Location

Austin

Boston

Portland

<https://codepen.io/melsumner/pen/NQyQQX>

** Thank you to @scottohara for writing about it!



Choice #3: Focusing Energy



Complain about the toxic

SO many terribad things!

- ✓ toxic tech
- ✓ state of the US
- ✓ climate change
- ✓ the whole world
- ✓ AMP!



Amplify the excellent

SO many delightful things!

- ✓ encourage newbies
- ✓ praise colleagues
- ✓ express gratitude for good management
- ✓ thoughtful self-reflection
- ✓ Ember Octane!



We always have a choice.

Thank you!



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GitHub: <https://github.com/melsumner>

Noti.st: <https://noti.st/melsumner>