Is CSS a PL?

by

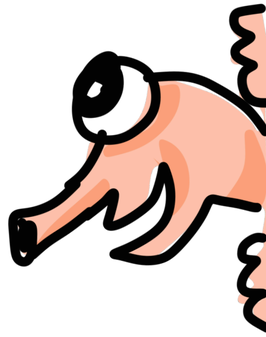
Lara Schenck

v 3.6.0

@

Abstractions II

August 2019



Is CSS a programming language?

Lara Schenck @laras126

March, 2018

Lara Schenck
@laras126

Is CSS a programming language?

Lara Schenck @laras126

March, 2018

Lara Schenck
@laras126

Is CSS a programming language?

42% Yes

50% No

8% I'm not sure

129 votes • Final results

Lara Schenck @laras126

May 2019

Lara Schenck
@laras126

Is CSS a programming language?

Lara Schenck @laras126

May 2019

Lara Schenck
@laras126

Is CSS a programming language?

34% Yes

53% No

13% I'm not sure

5,324 votes • Final results

Lara Schenck @laras126

Lara Schenck @laras126

What <u>is</u> a programming language?

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A formal language for instructing a computer to perform tasks.

Wikipedia and others

What is A Programming Language? By Will Chrichton

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Programming Paradigms

Imperative

"How"

Control Flow

Declarative

"What"

No control Flow

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Programming Paradigms

Imperative

JavaScript
Ruby
C++
Python

Declarative

Domain-Specific
SQL
HTML
CSS

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CSS is a domain-specific declarative programming language.

100!

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CSS developers program the layout of ~~web pages.~~

boxes

100!

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So...?

Lara Schenck @laras126

May 2019

Lara Schenck
@laras126

Is CSS a programming language?

34% Yes

53% No

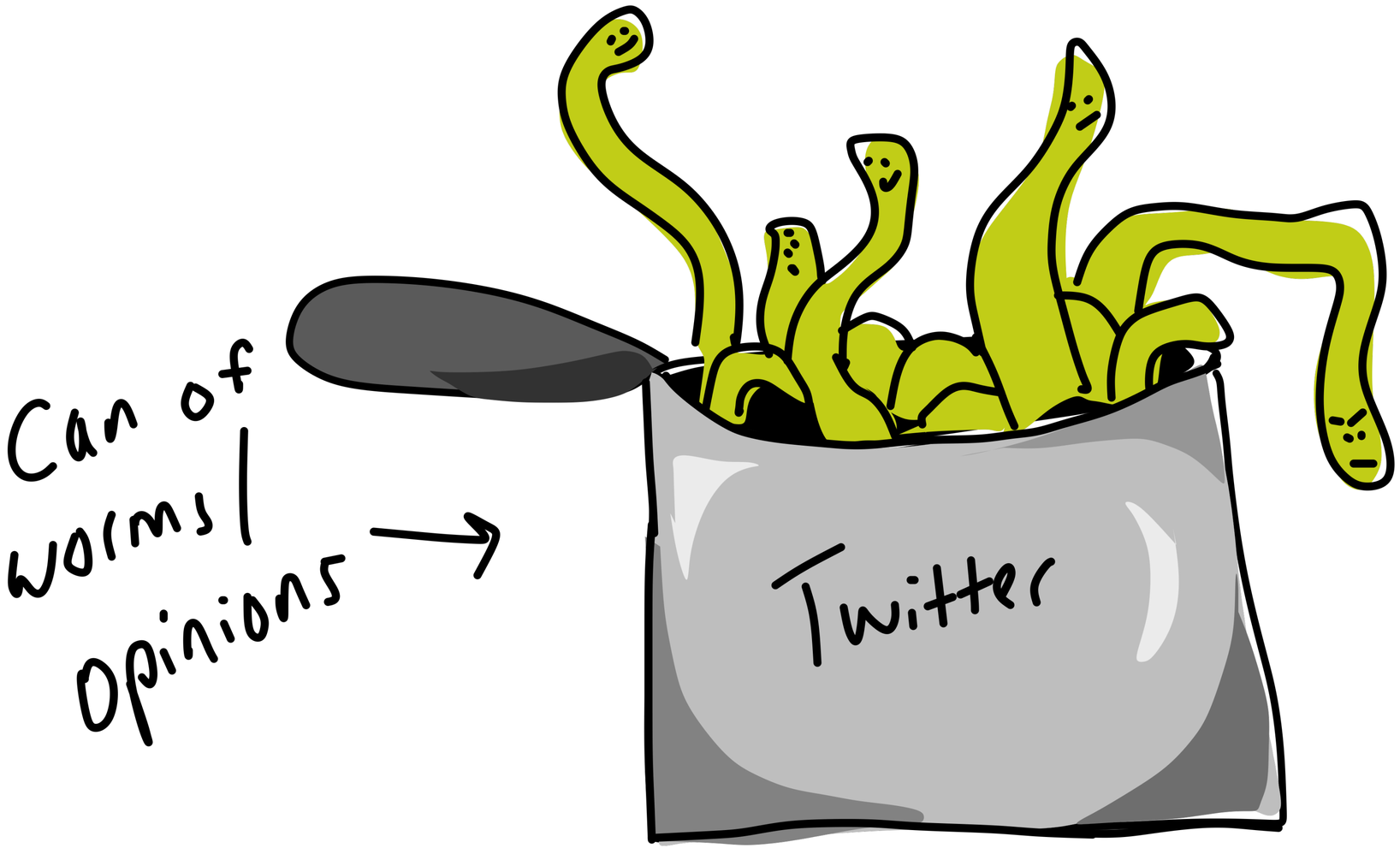
13% I'm not sure

5,324 votes • Final results

Link to the Tweet.

Lara Schenck @laras126

Lara Schenck @laras126



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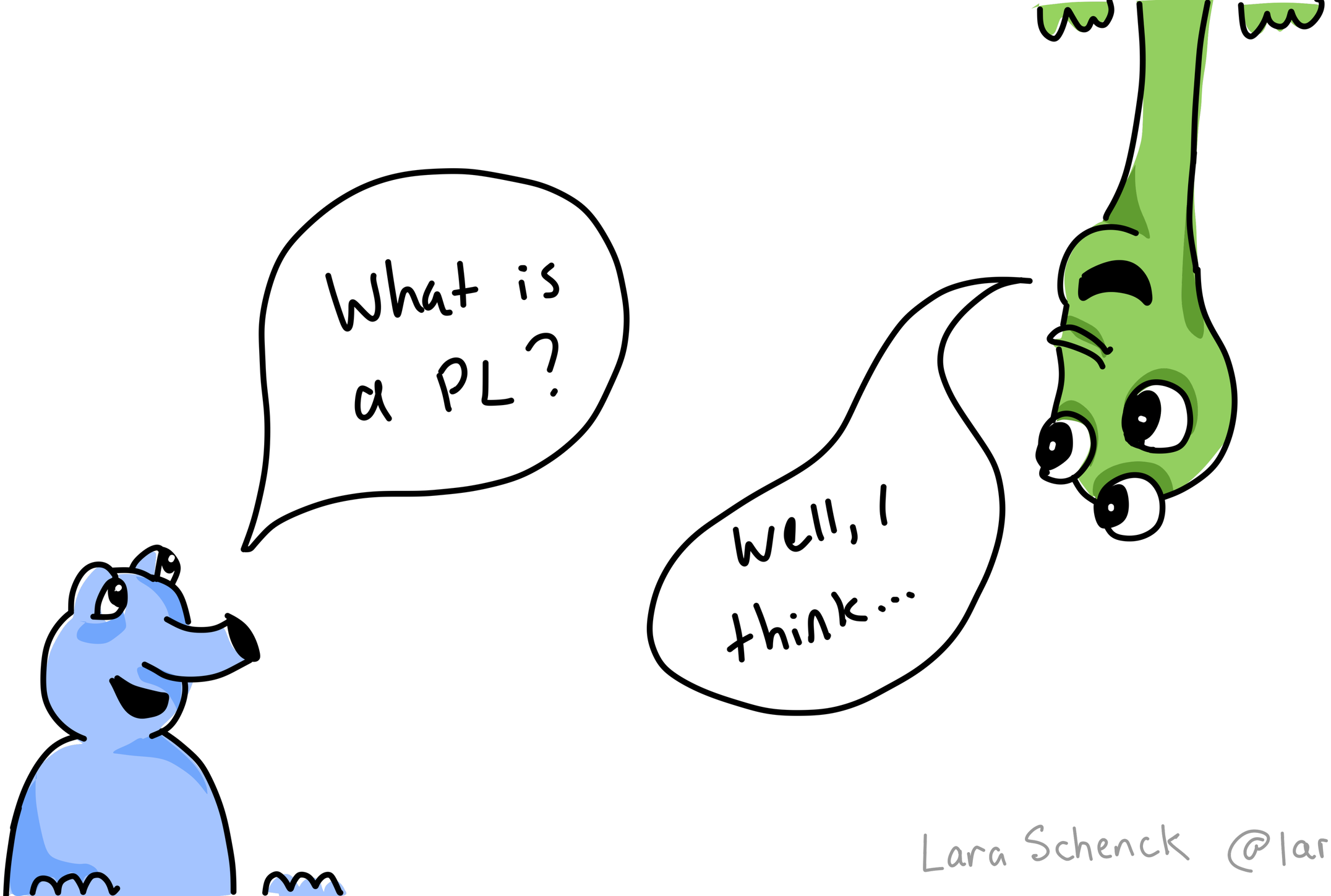

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So...?

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Turd Driven Development

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Assumption:

All code is at first.

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test

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The

Design

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The Design

→ CSS

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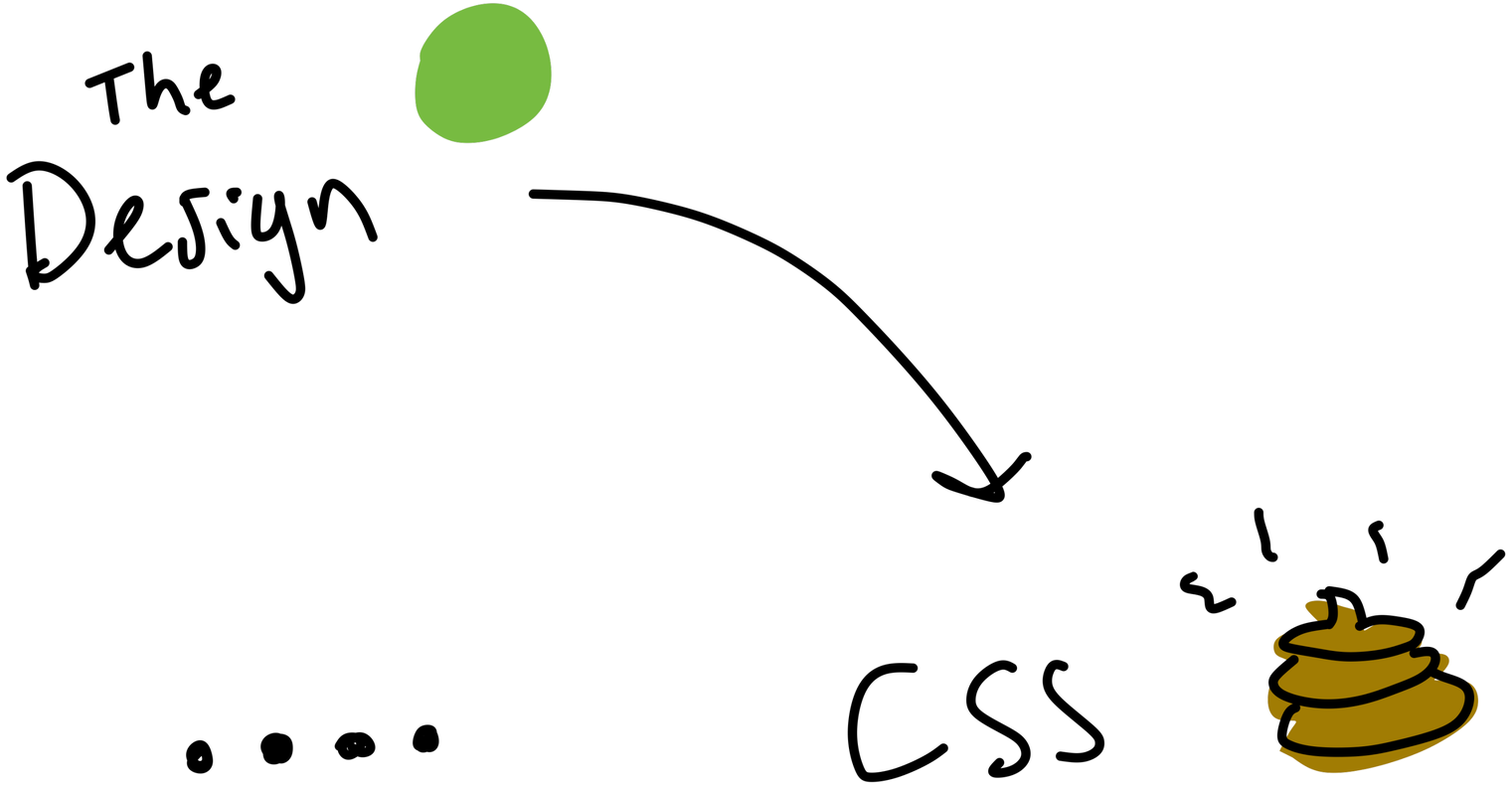

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The Design

CSS

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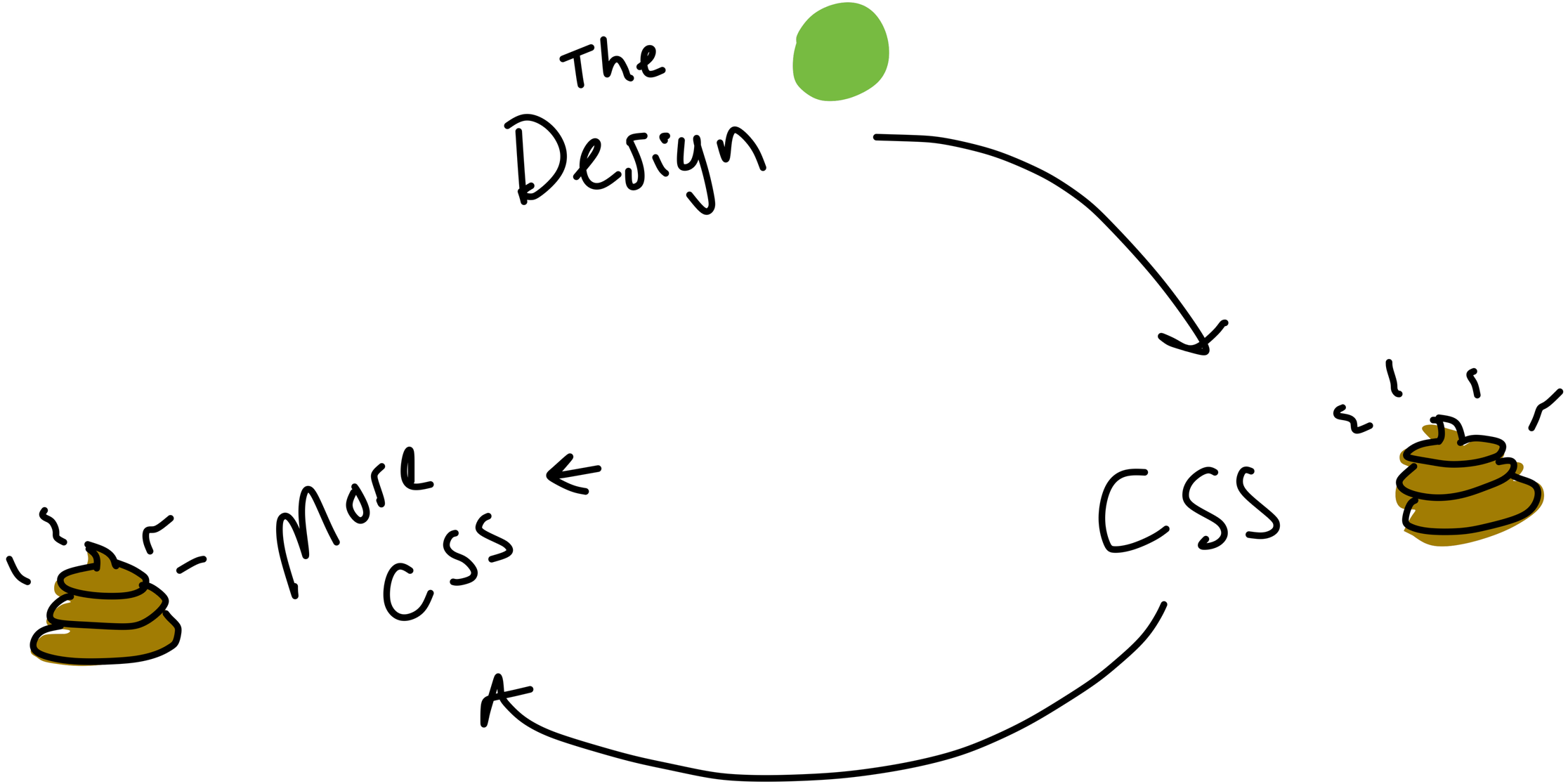

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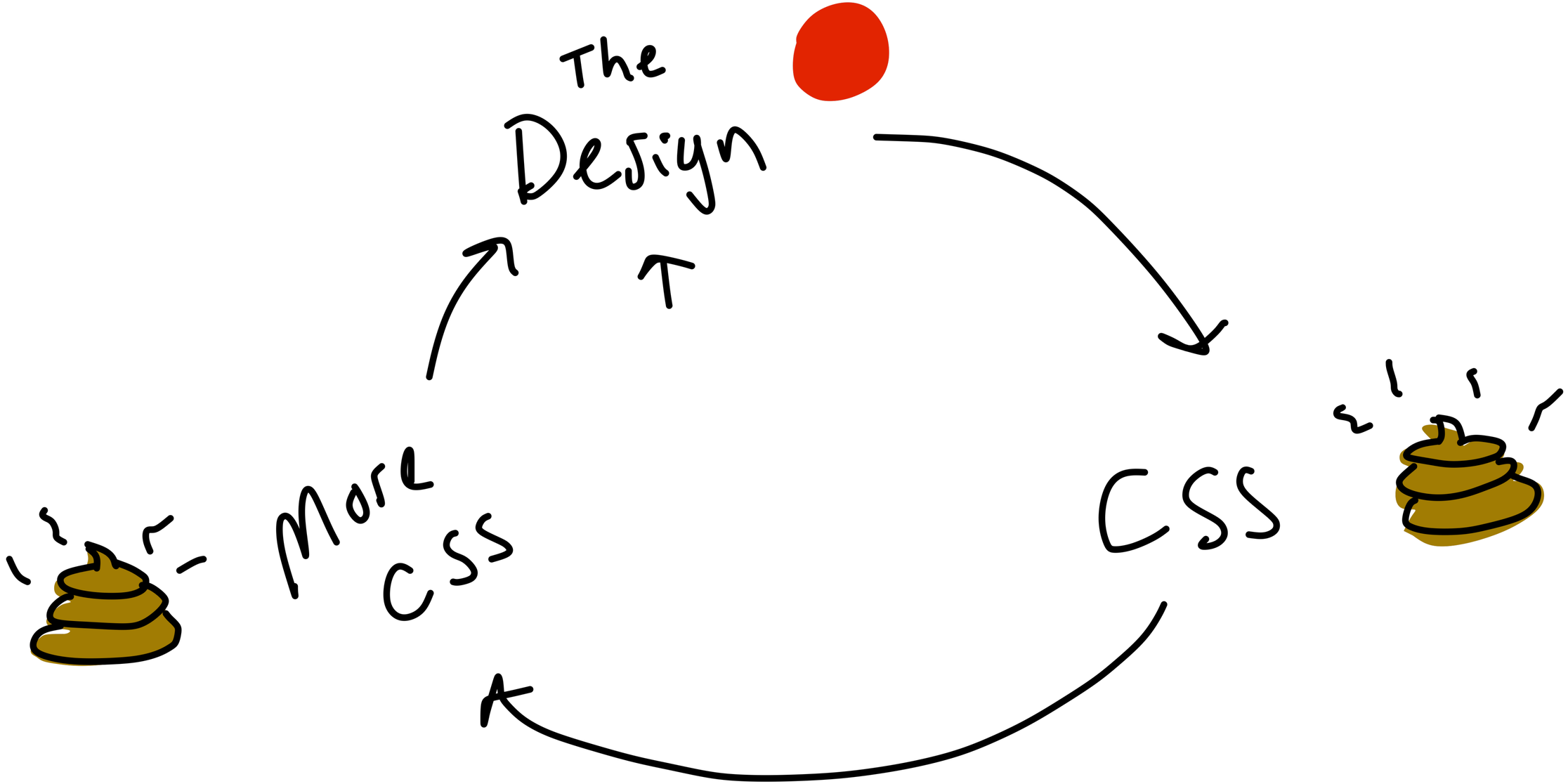

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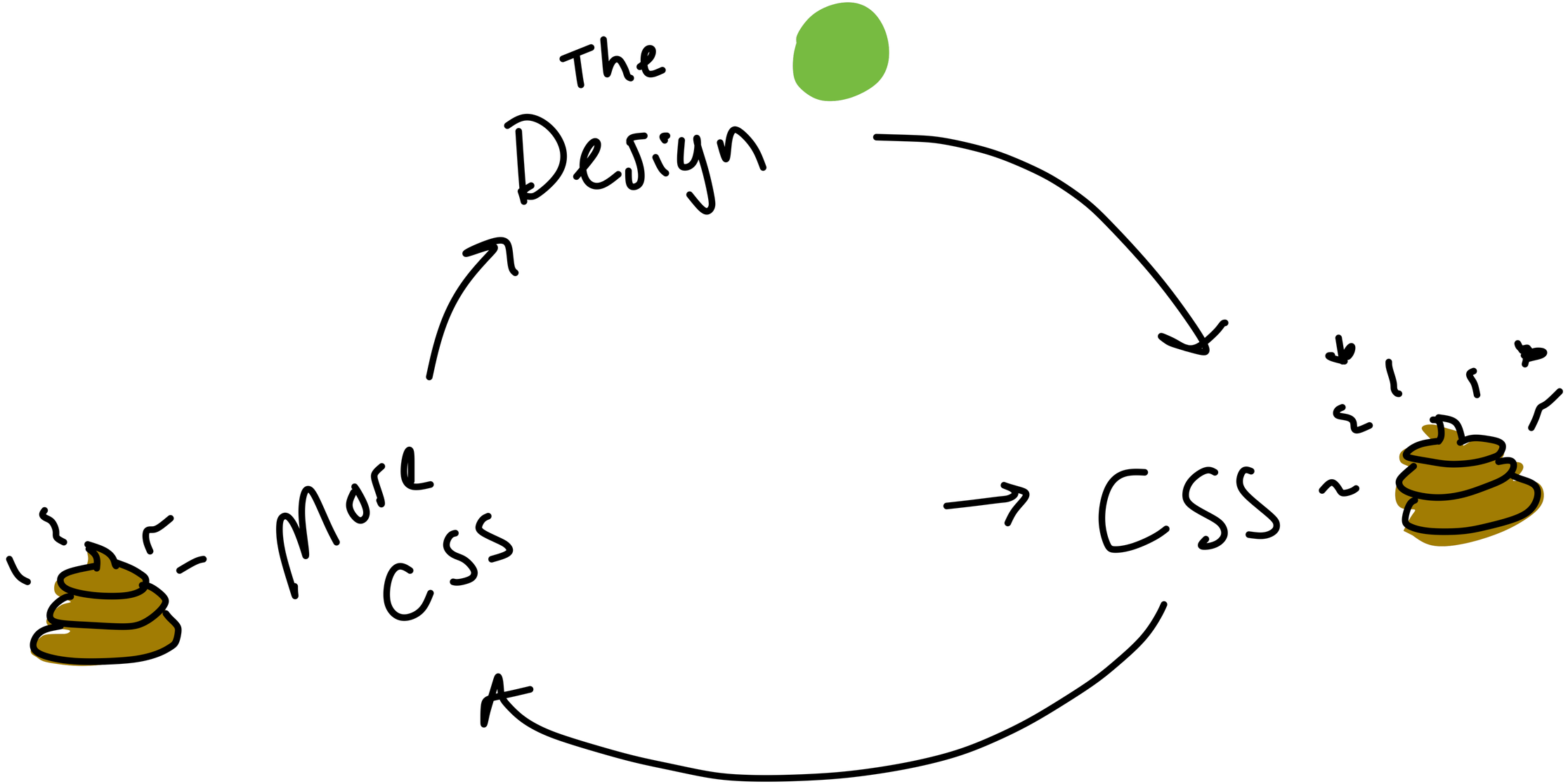

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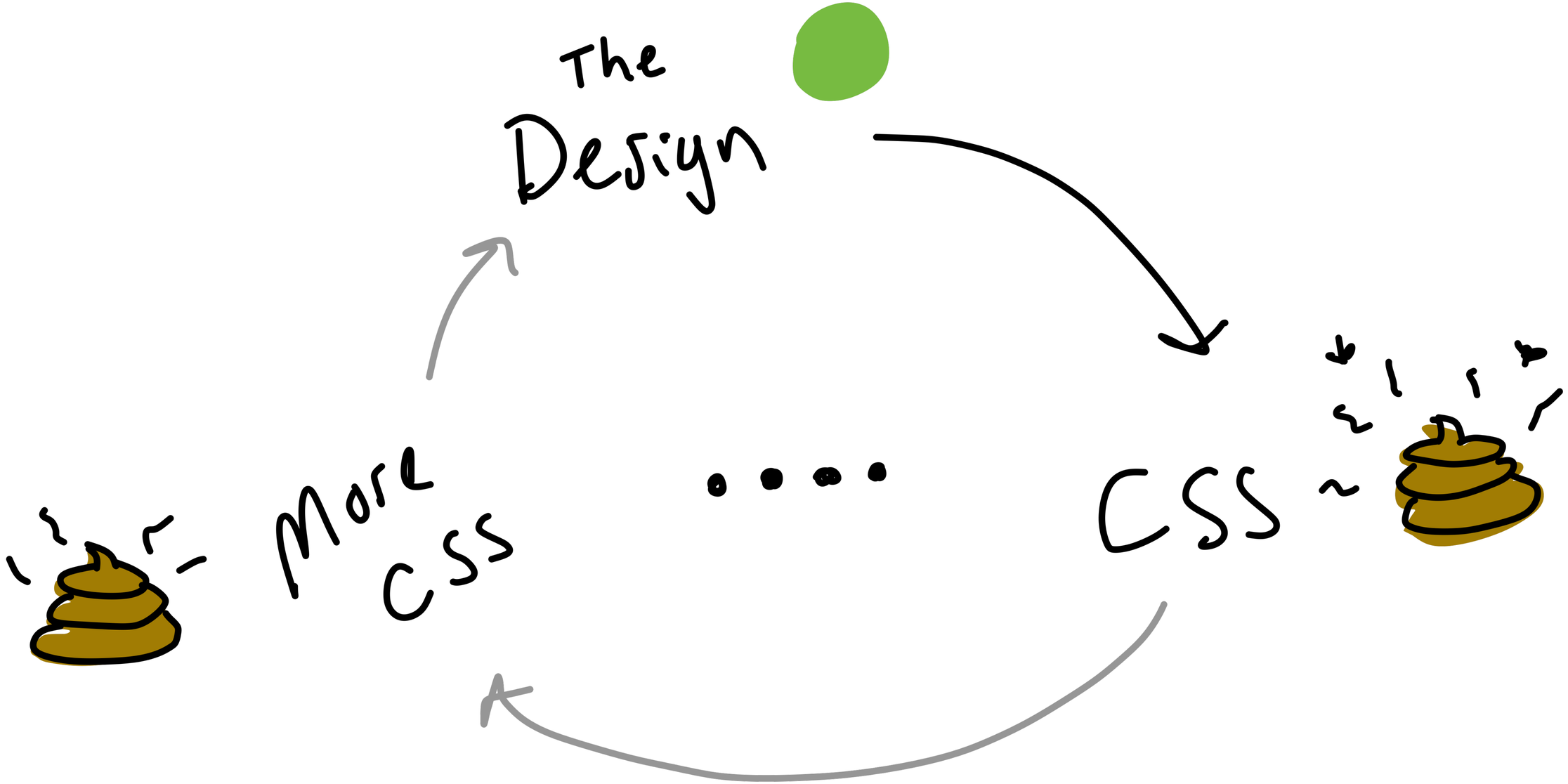

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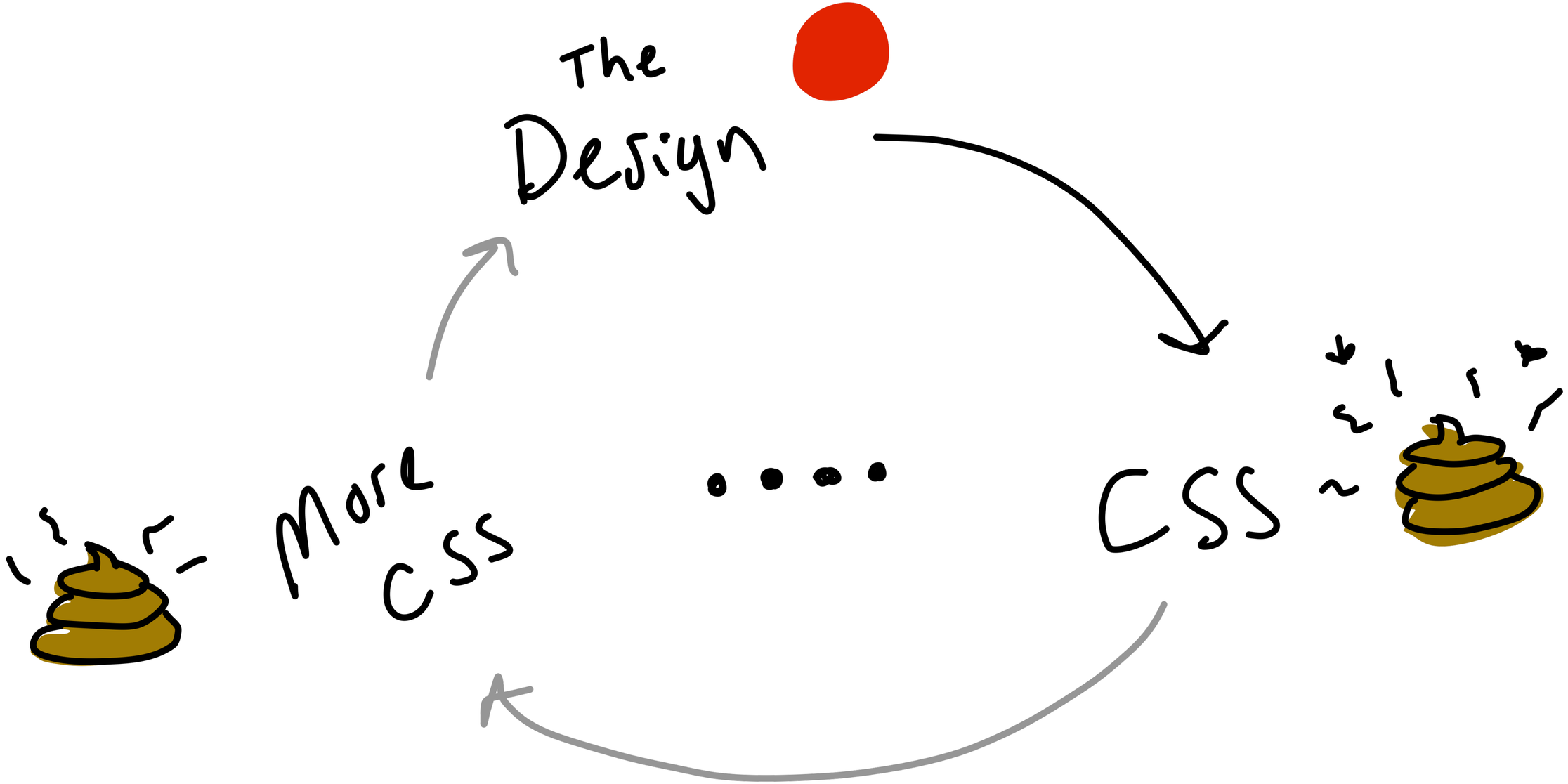

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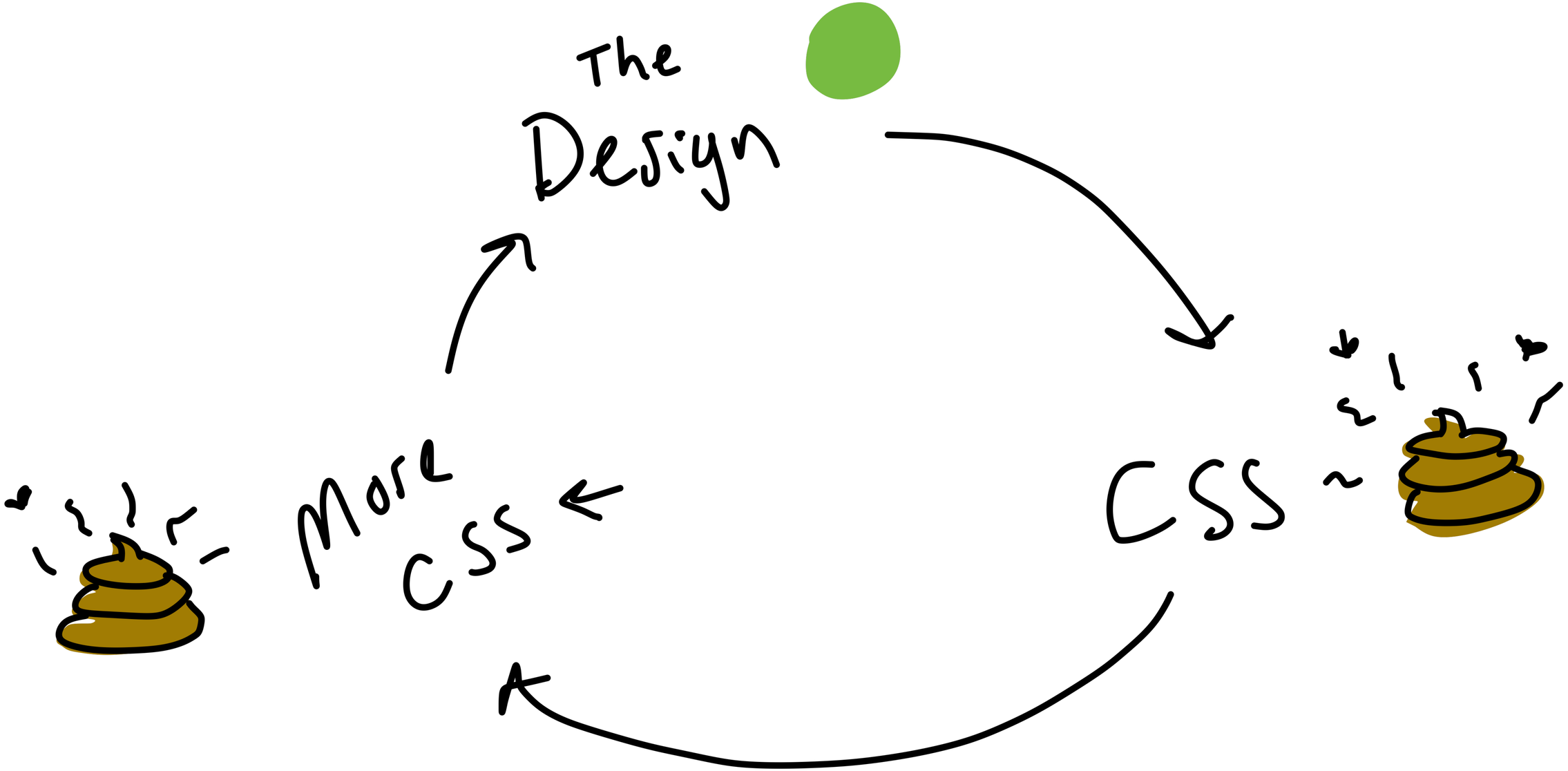

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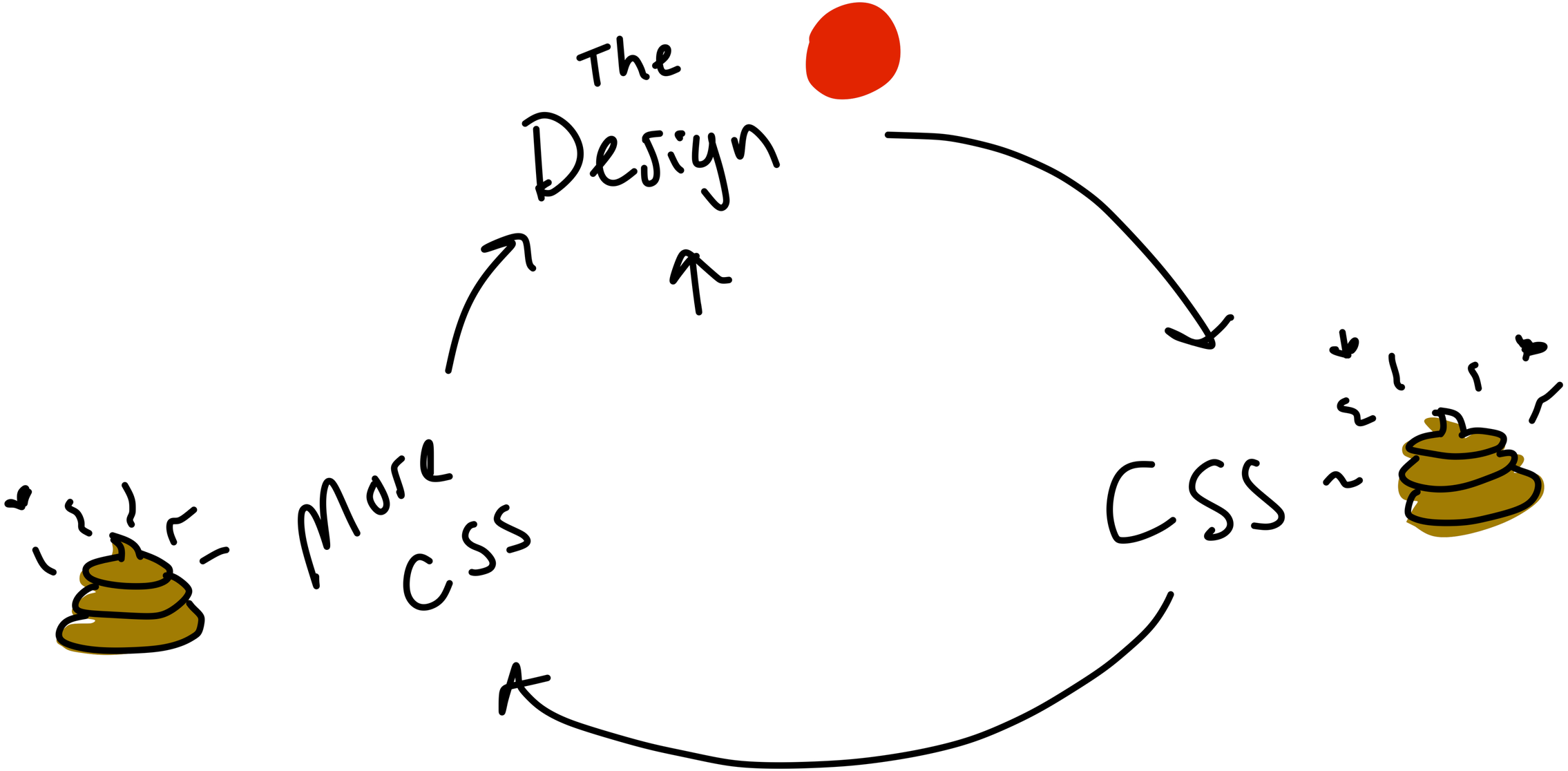

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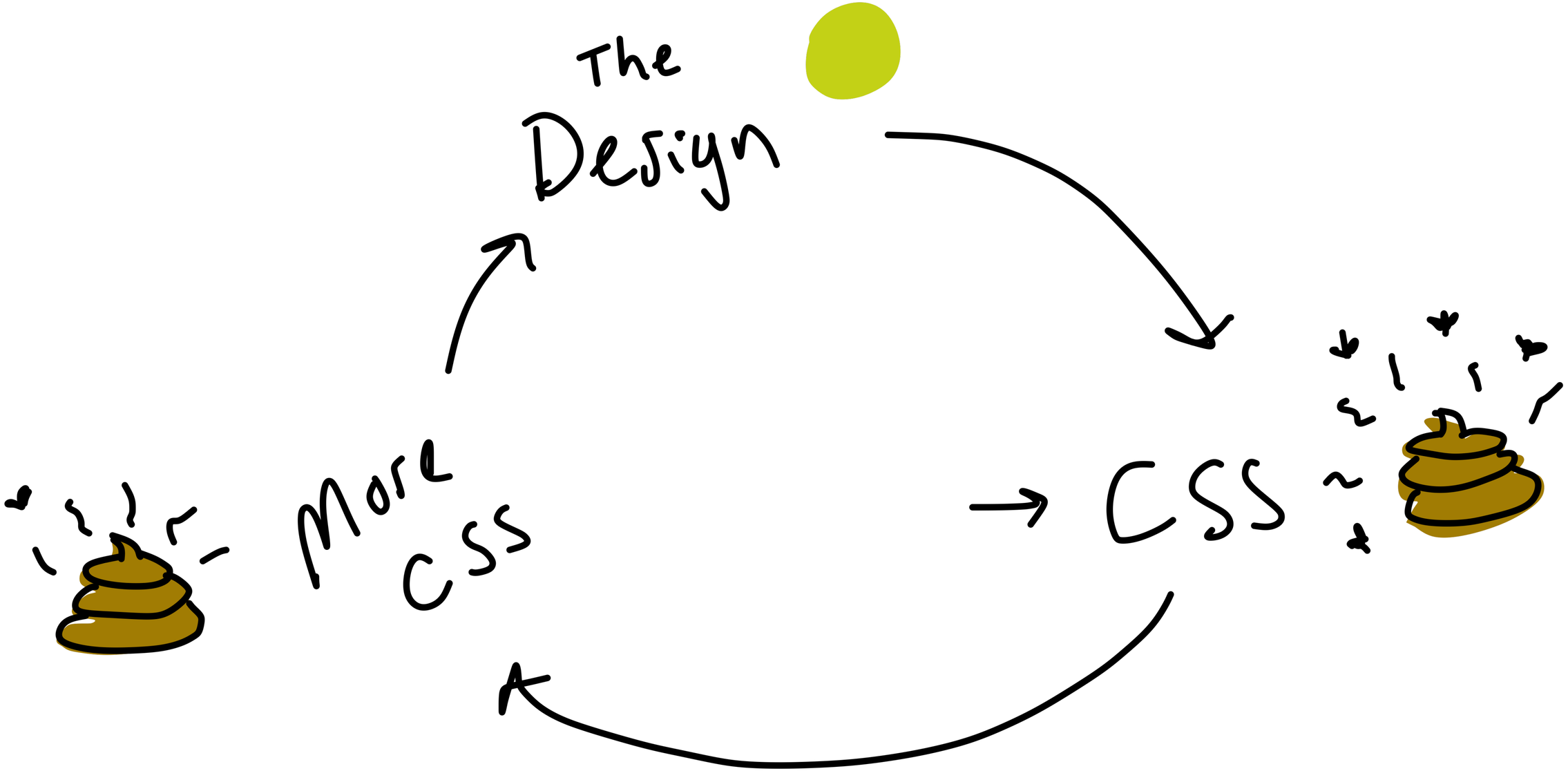

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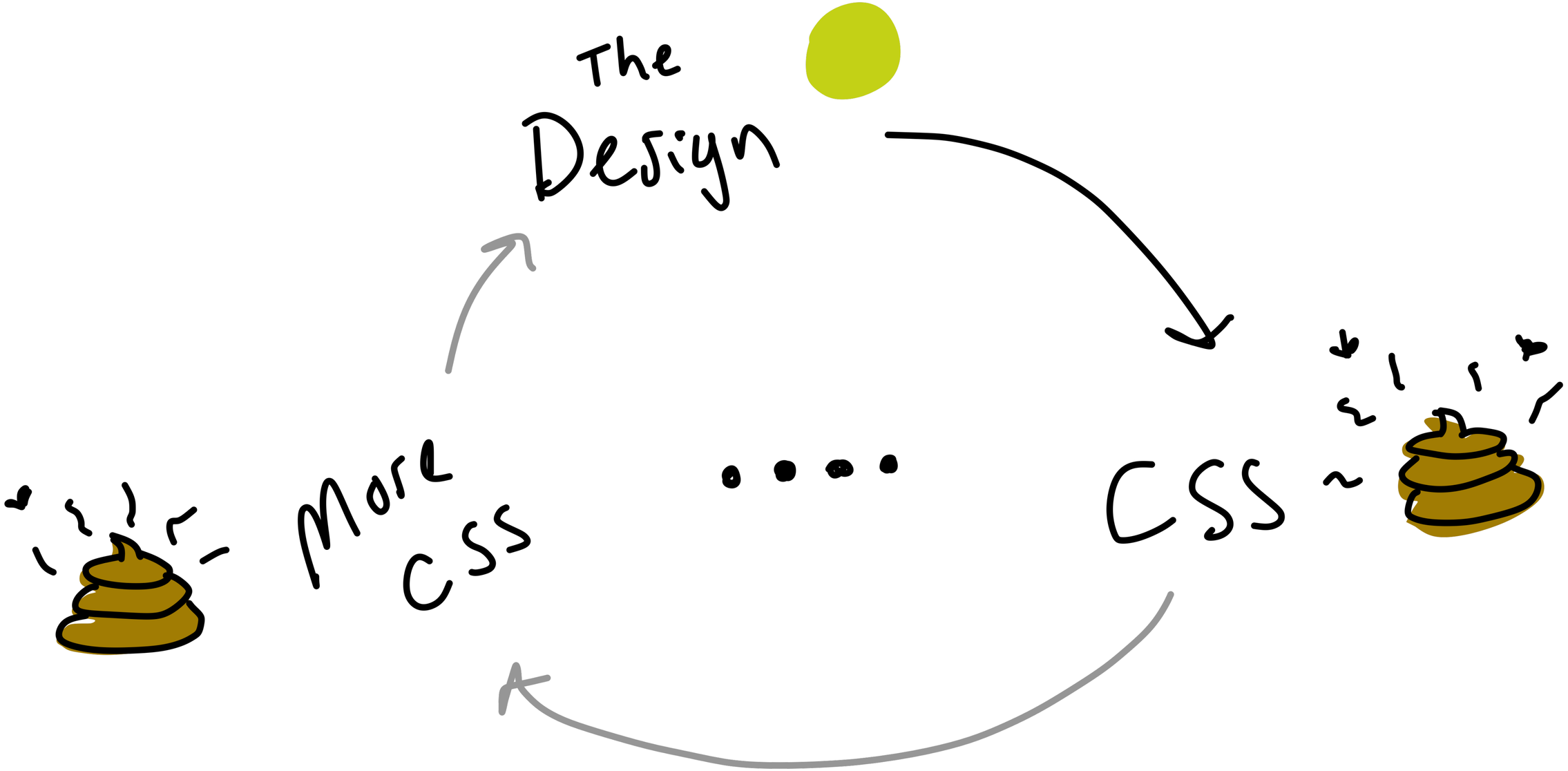

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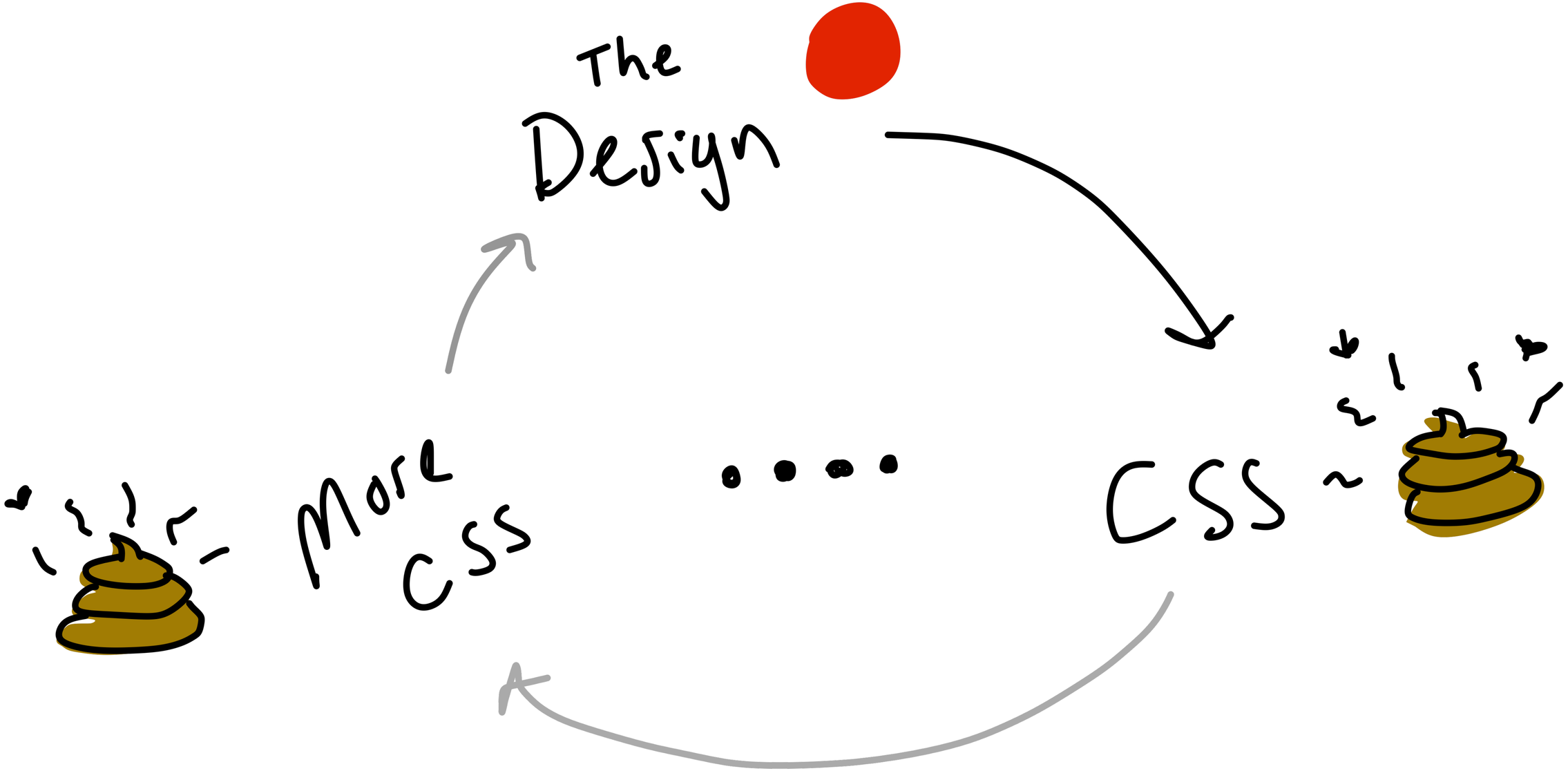

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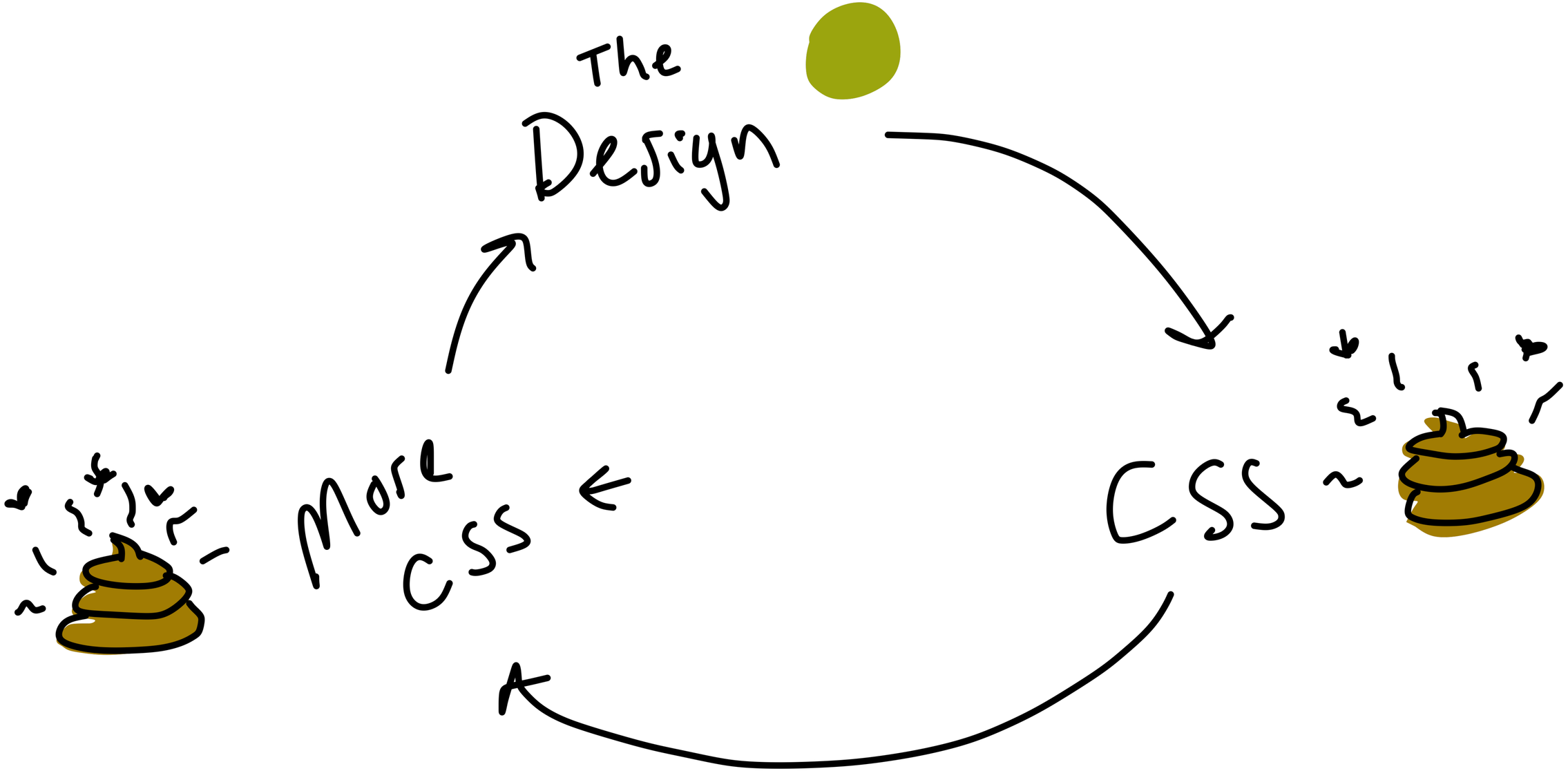

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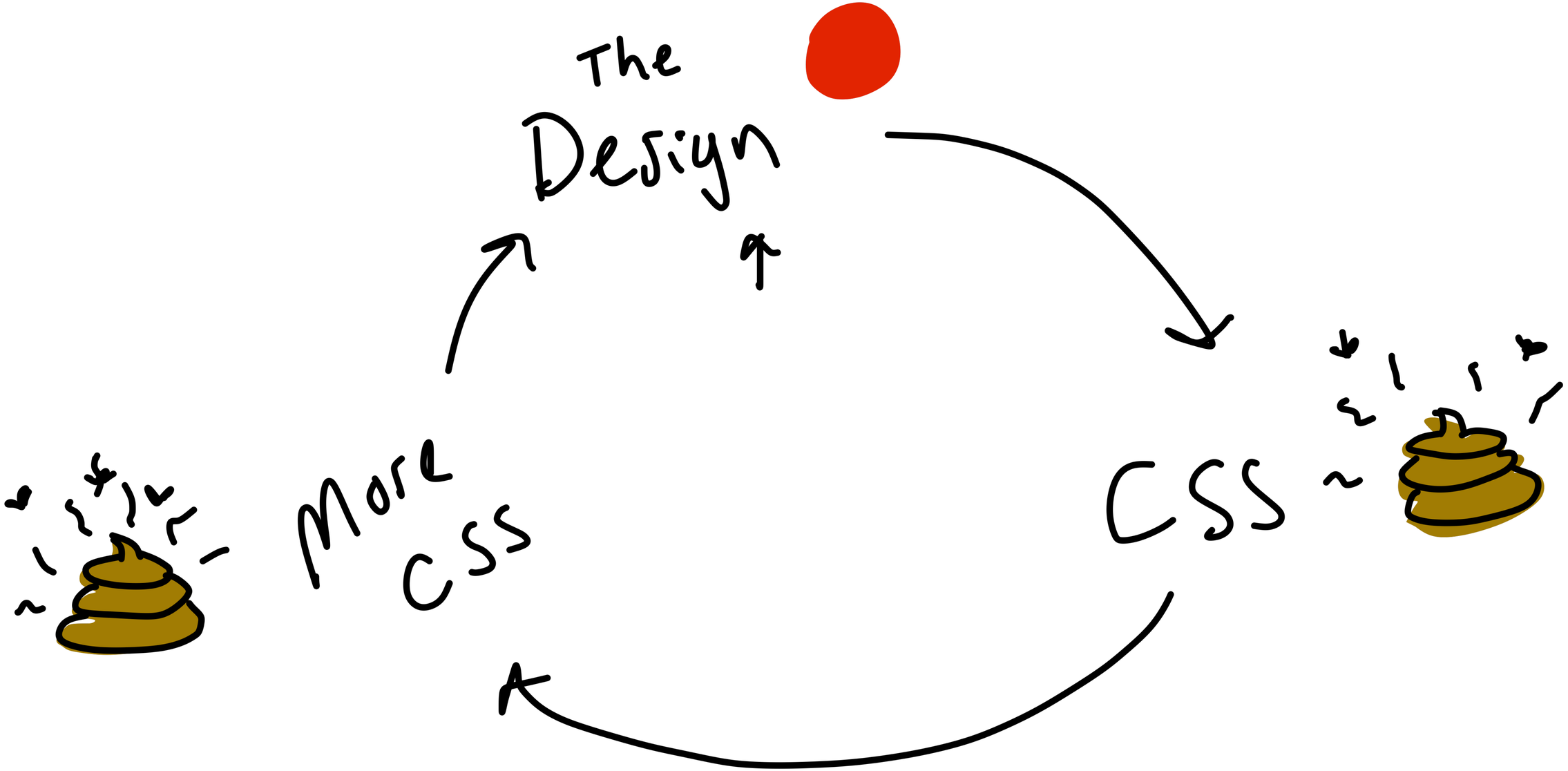

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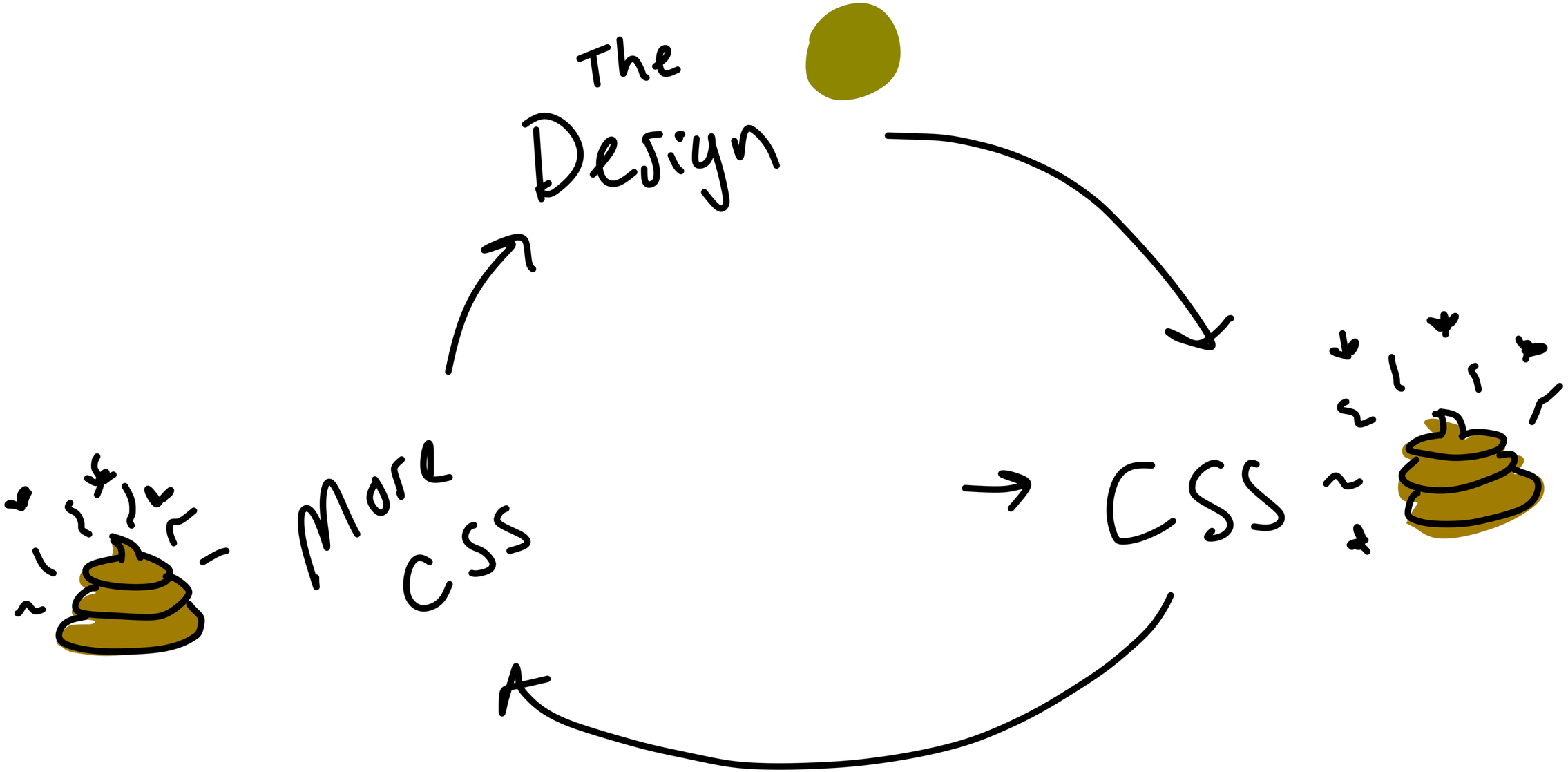

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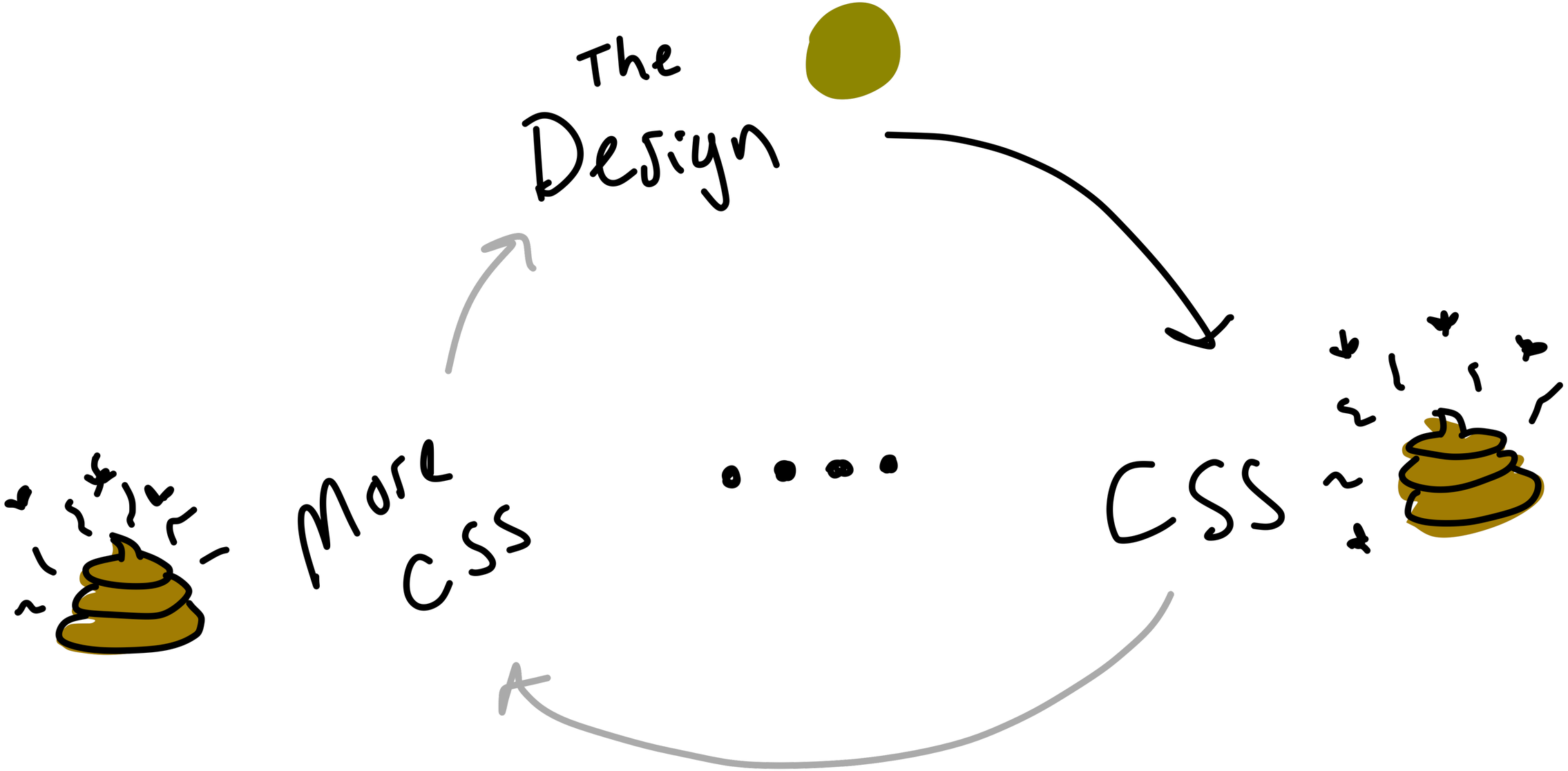

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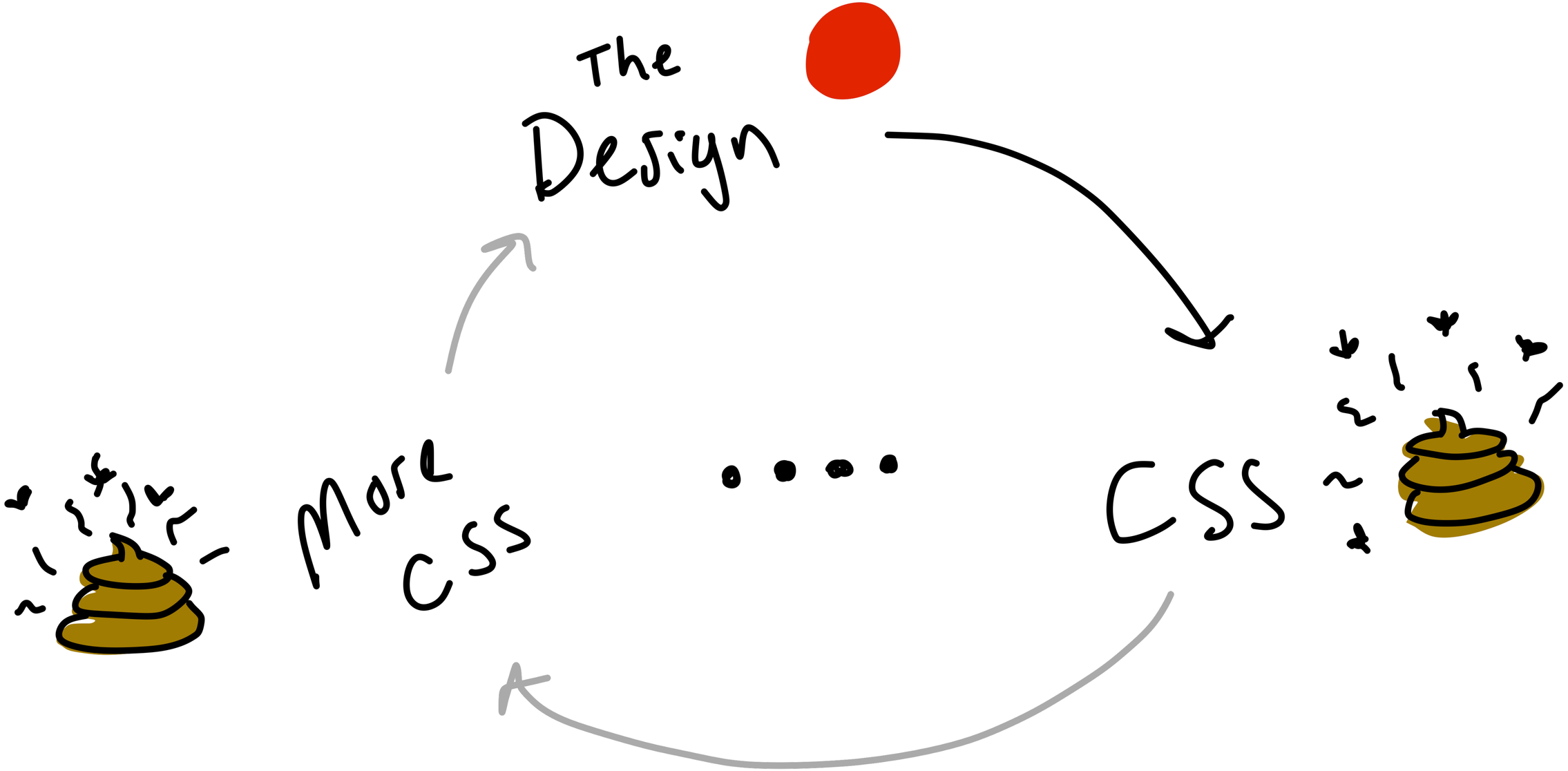

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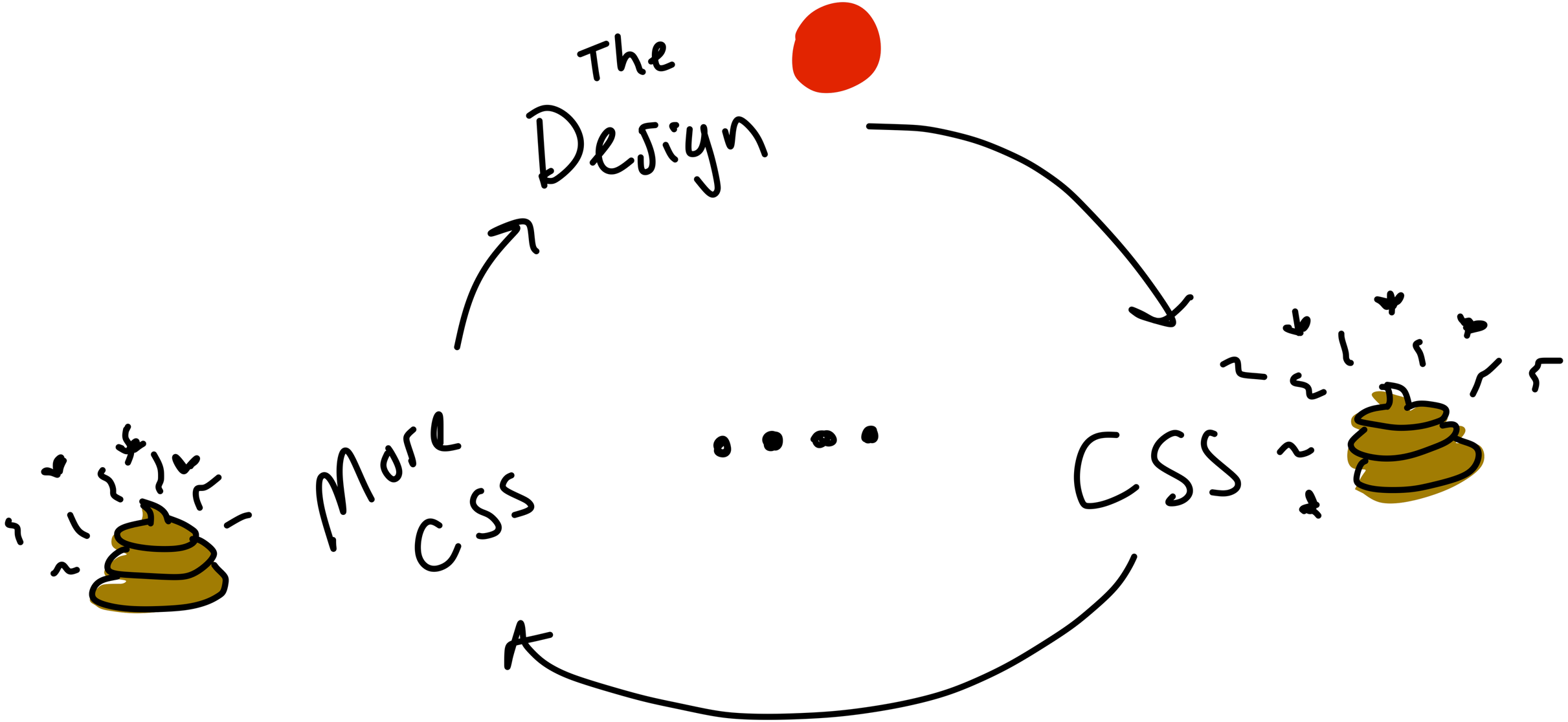

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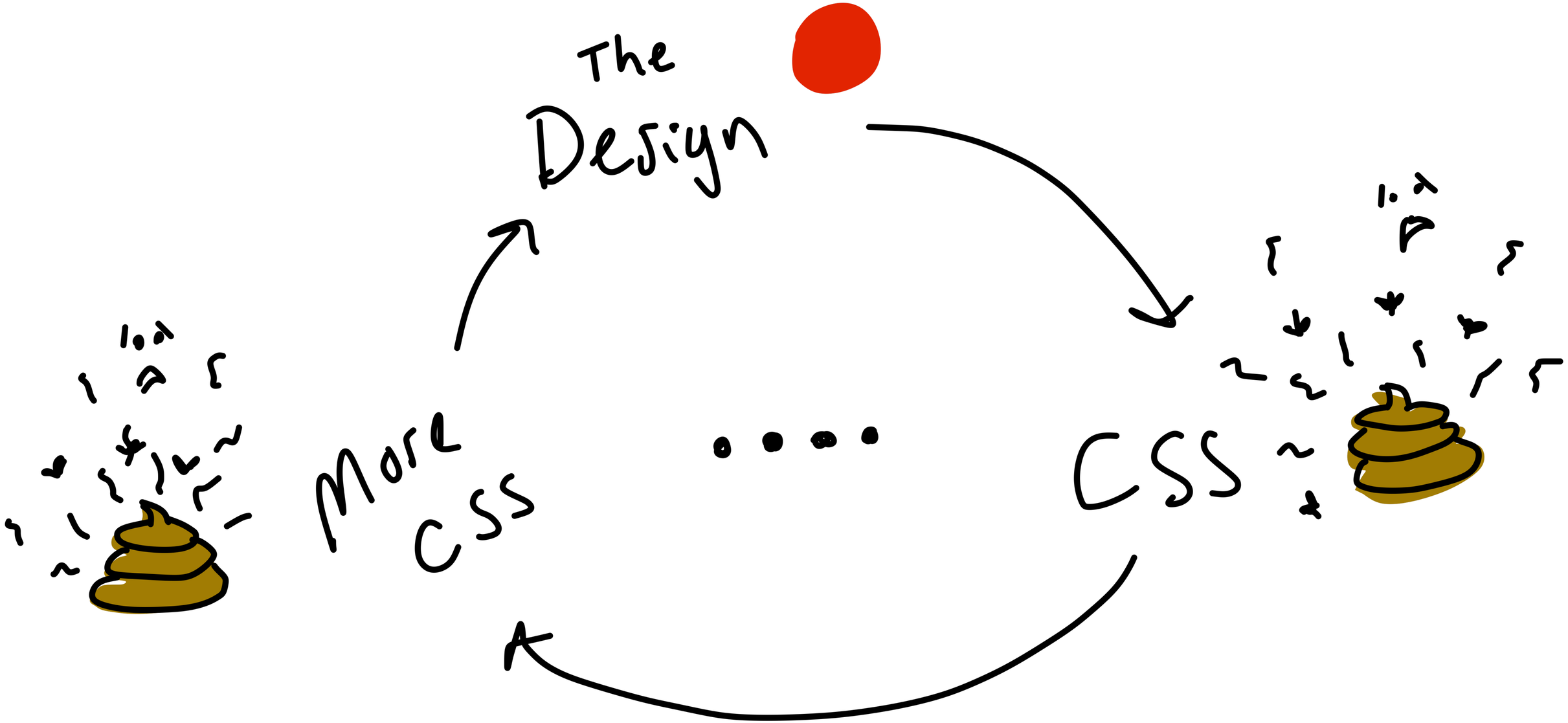

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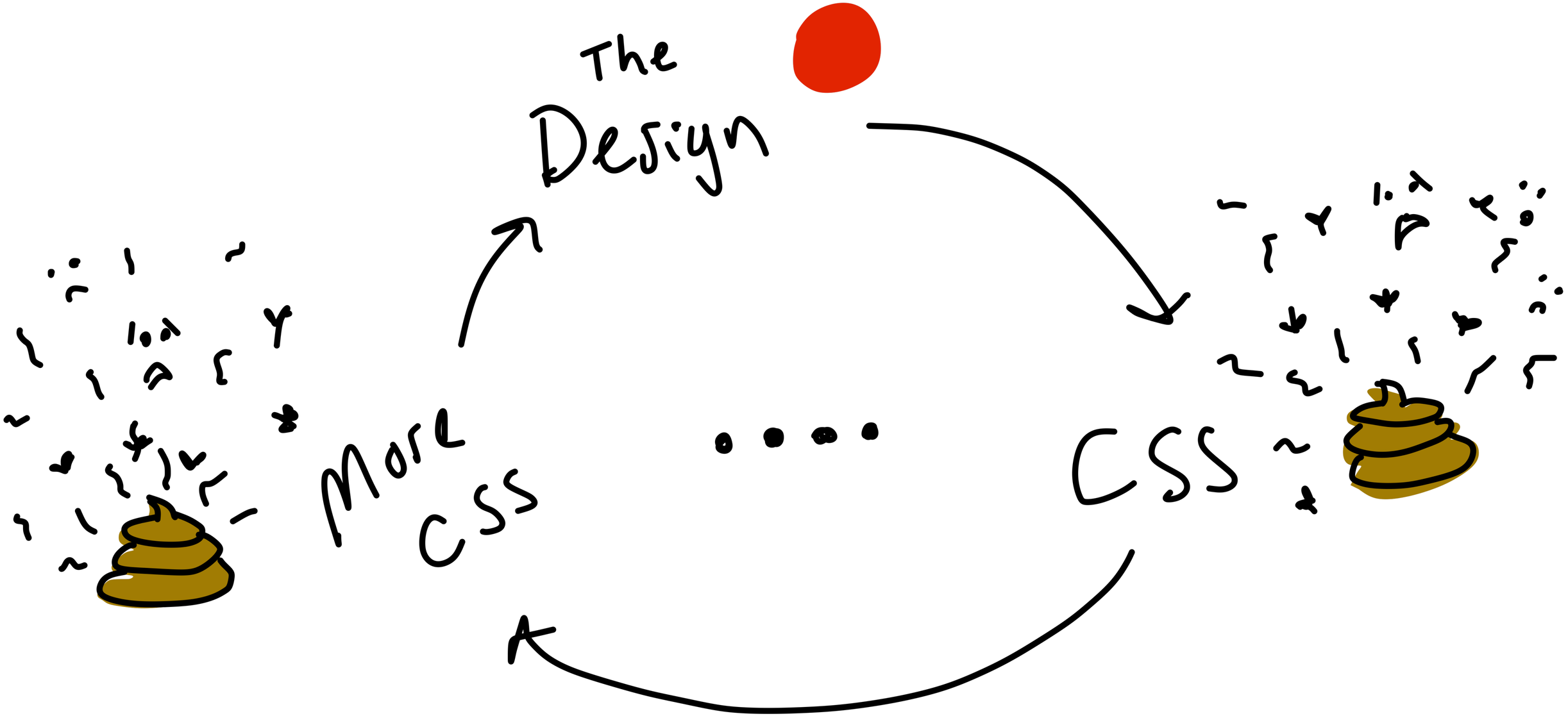

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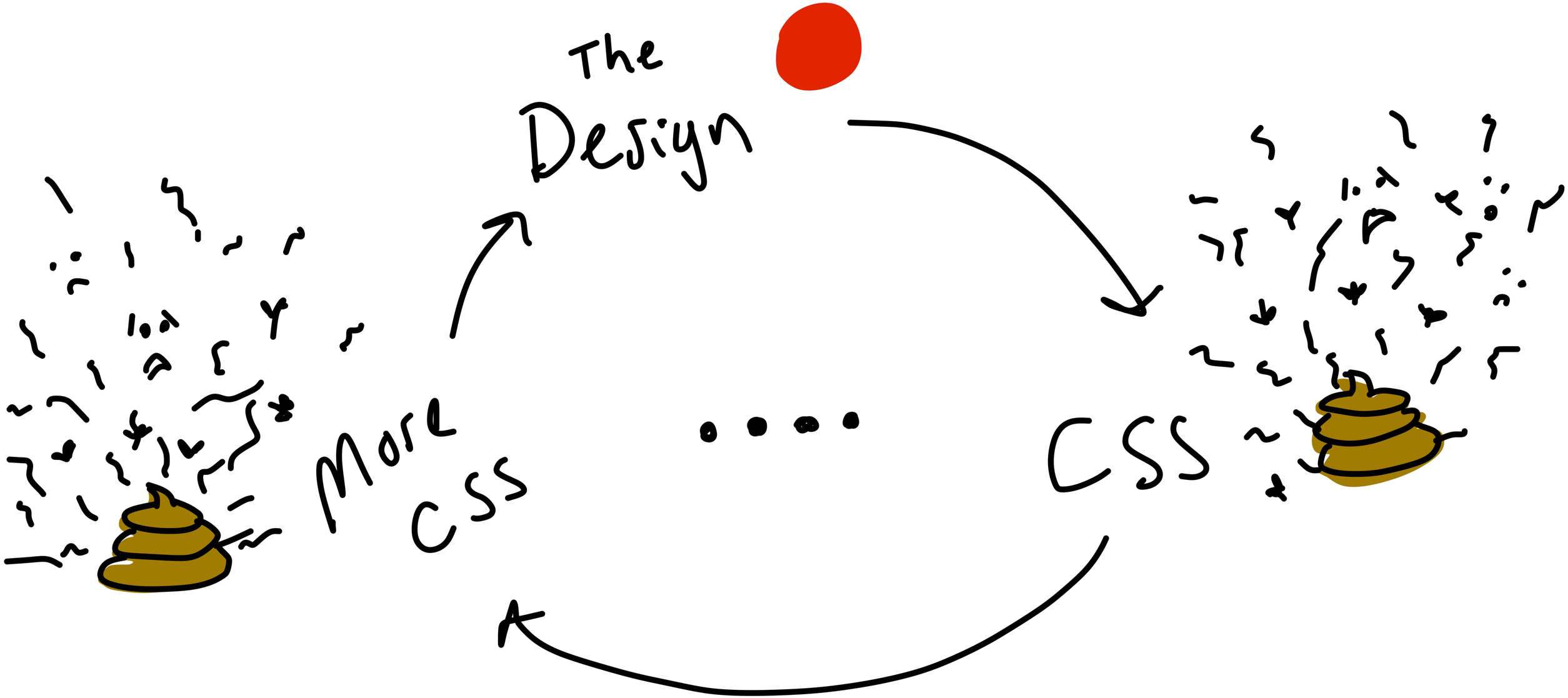

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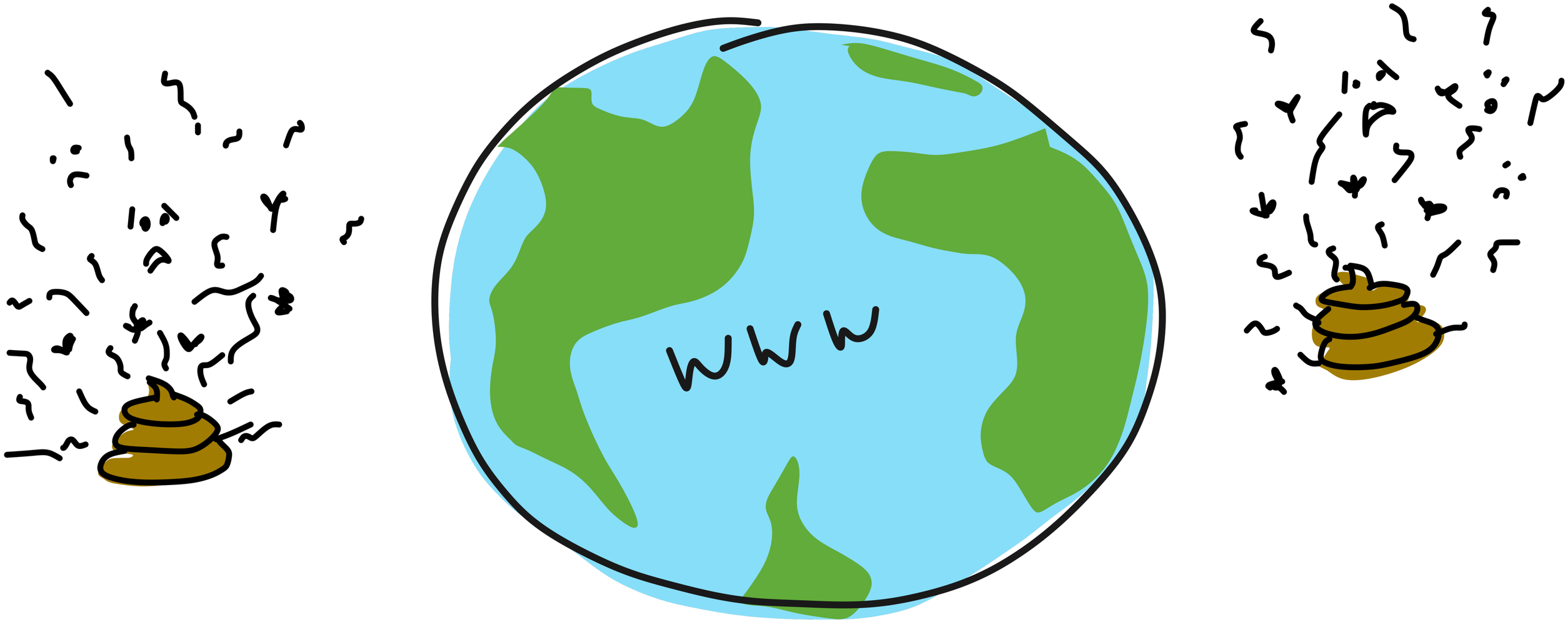

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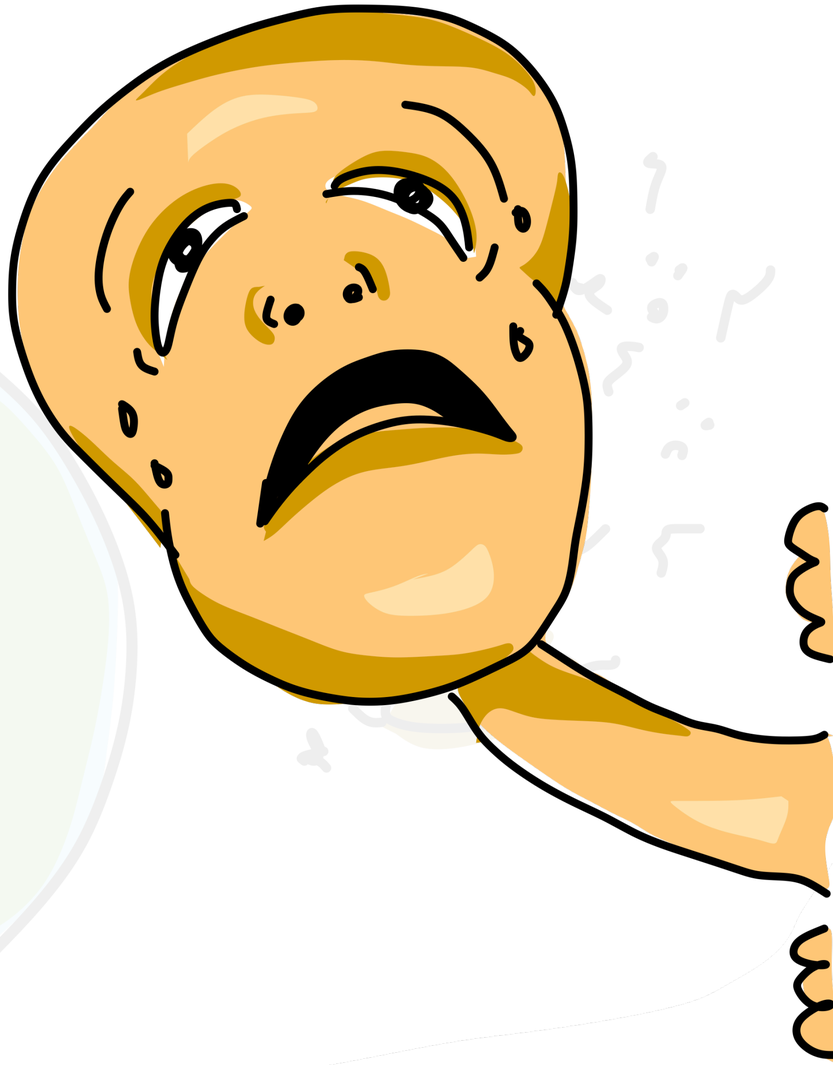
What do we do???



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STOP "writing CSS"!!!

START programming!

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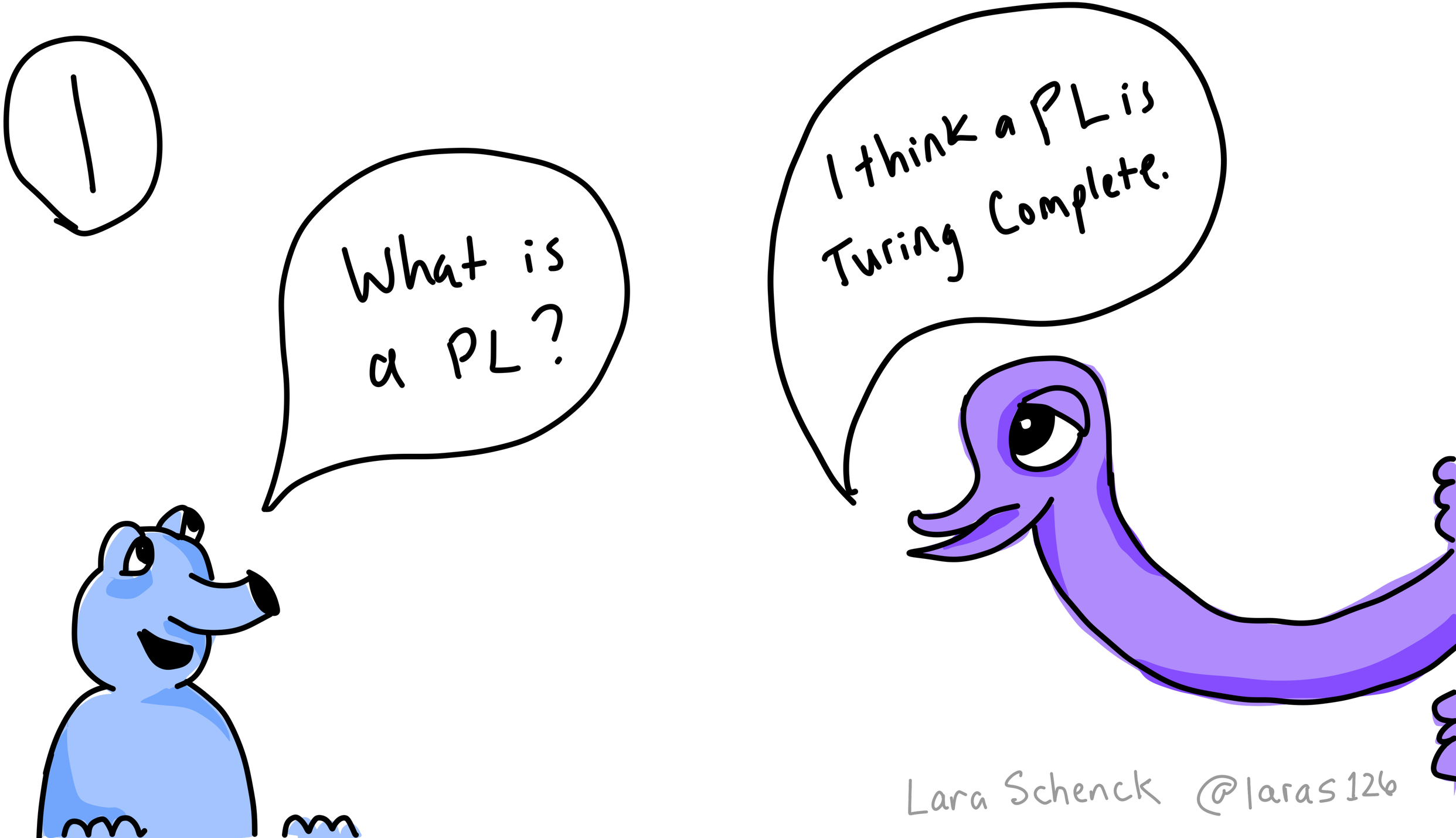
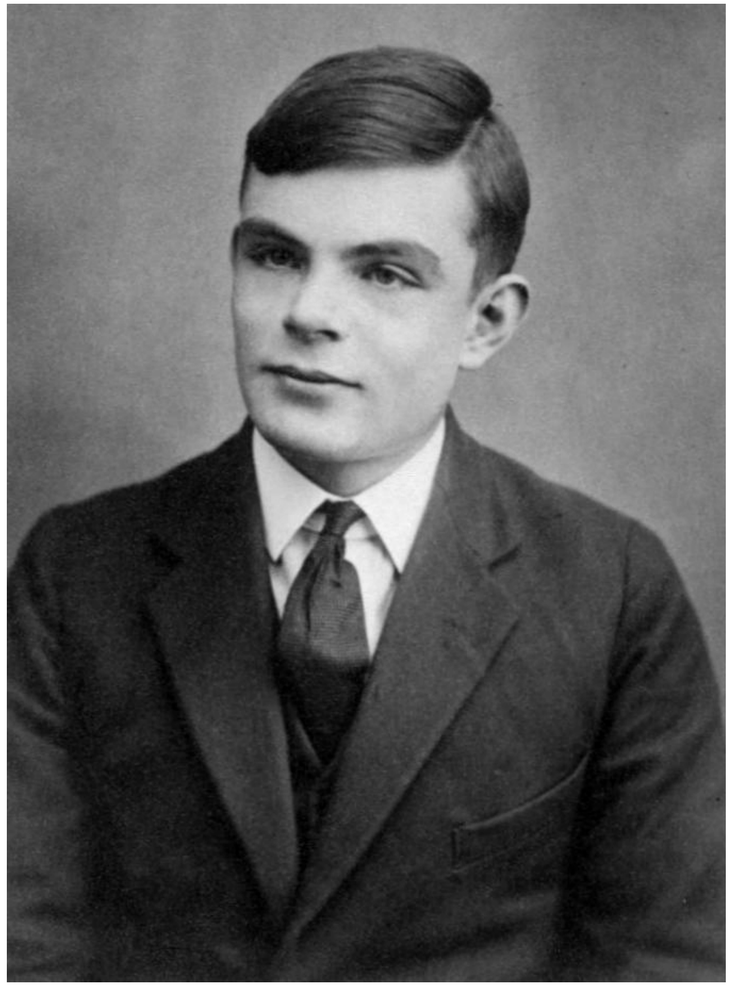

1
What is a PL?
I think a PL is Turing Complete.
Lara Schenck @laras126



Wikipedia

Alan Turing, 1936

Inventor of

Turing Machine

↳ hypothetical machine that can compute anything

↳ foundation of all modern devices

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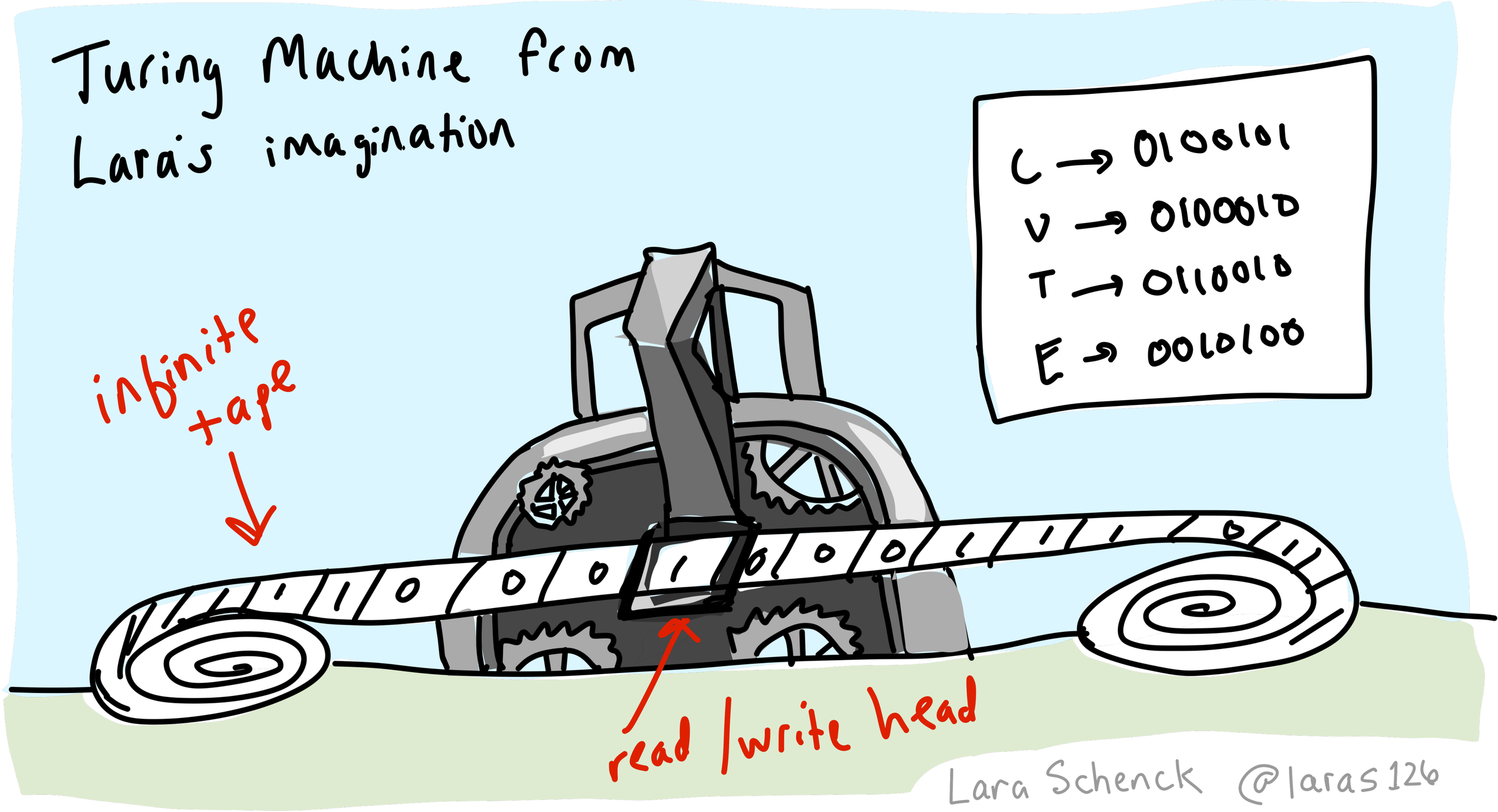
Turing Machine from Lara's imagination



Turing Complete if:

1) conditional branching (if/else)

2) ~~infinite memory~~ → umm...

↳ undecideability

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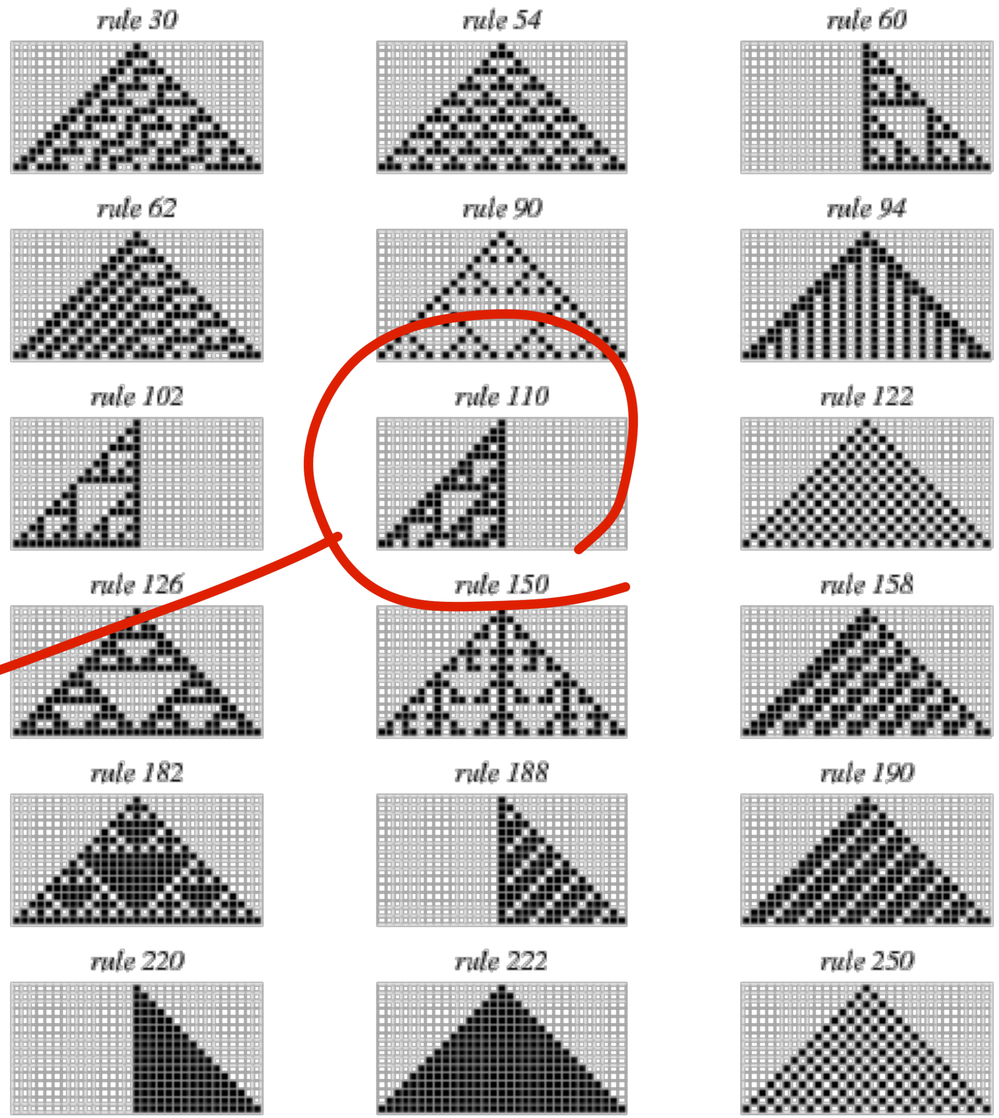
Elementary Cellular Automata



WolframMathWorld

Rule 110 is Turing Complete

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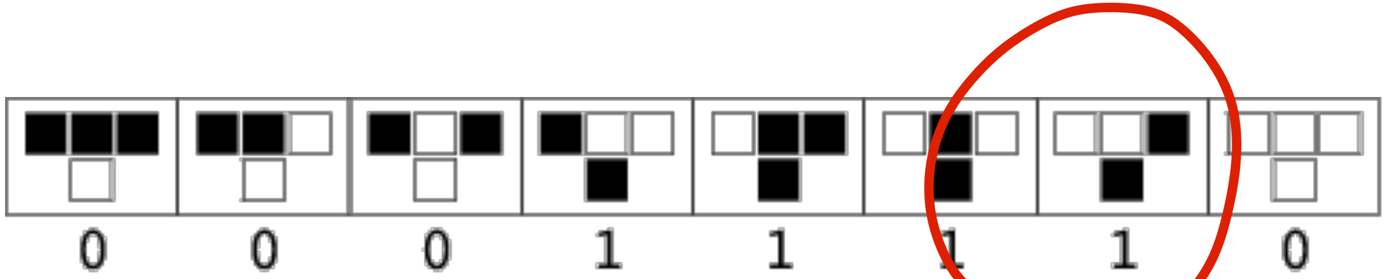

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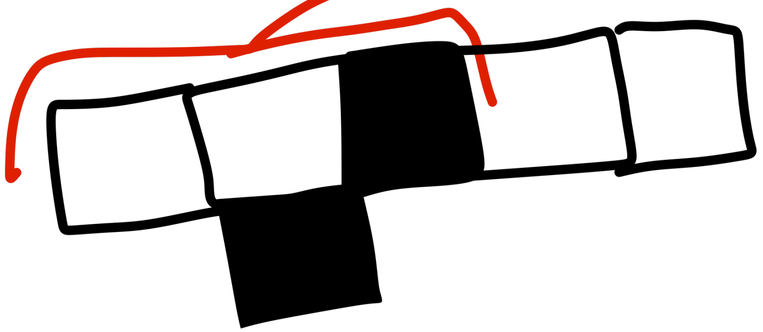

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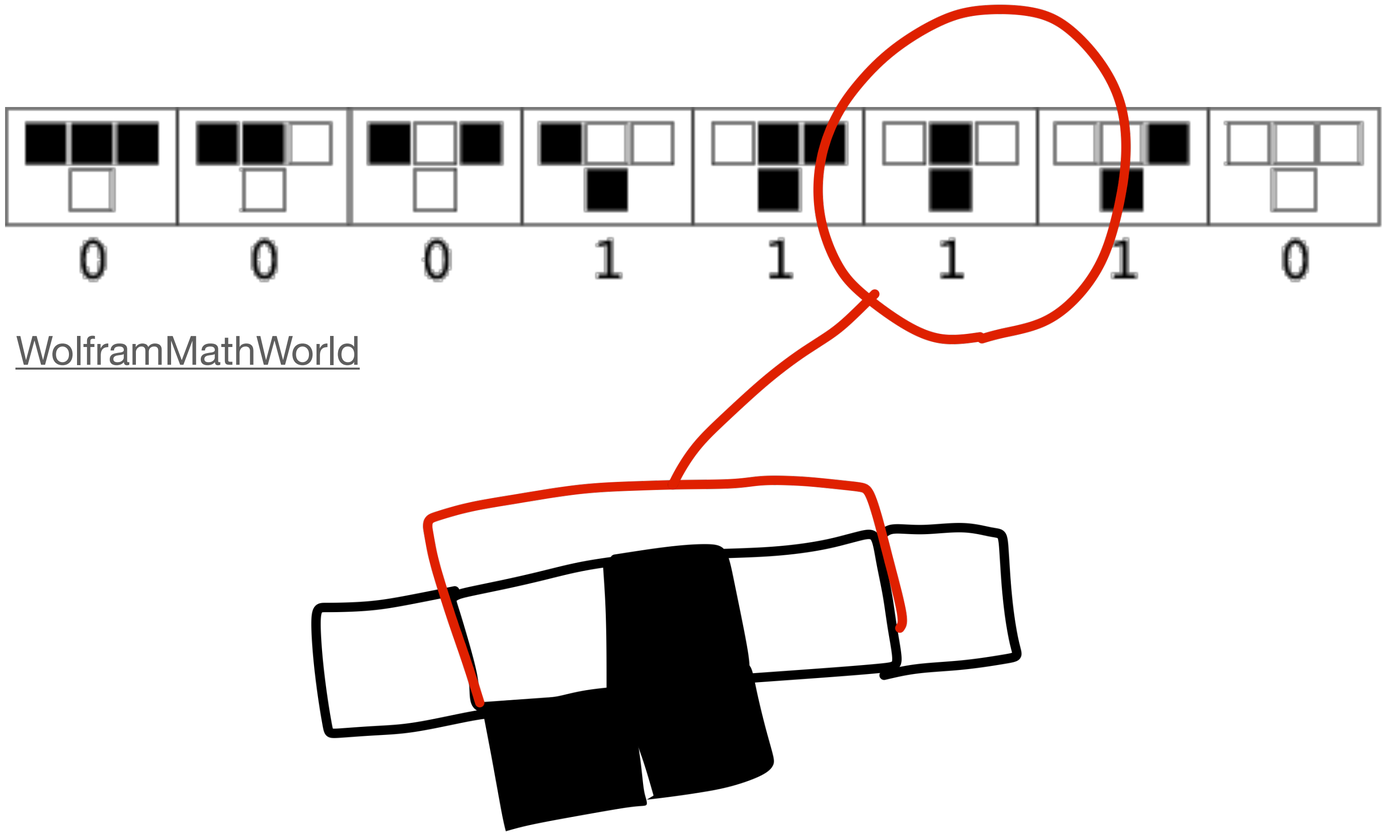

WolframMathWorld

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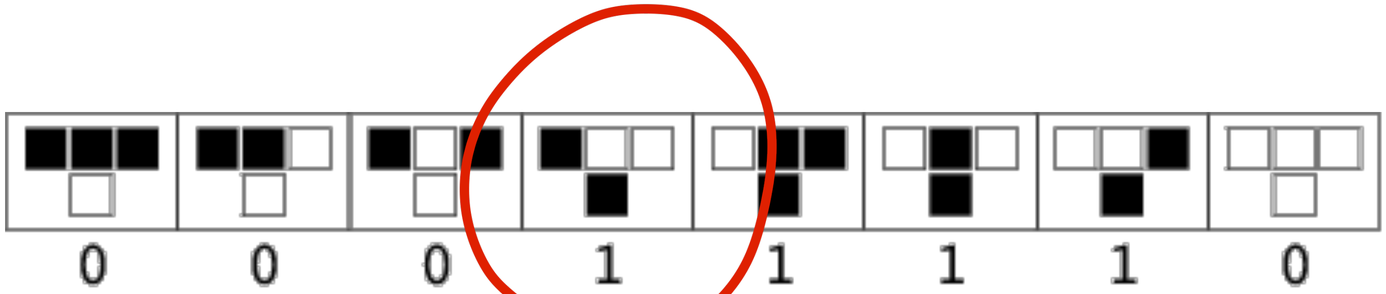

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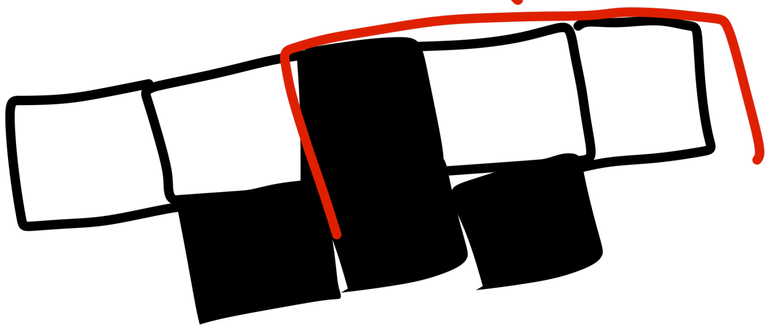

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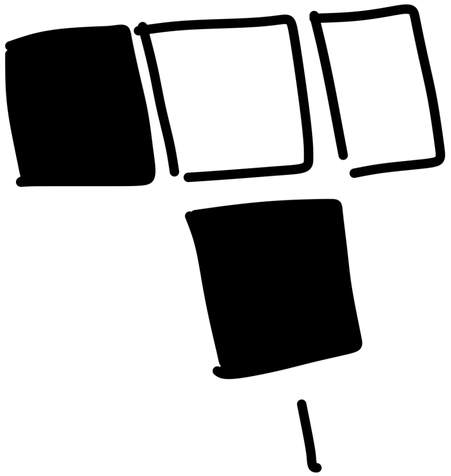
Imperative

```
if ( cellOne == 1 && cellTwo == 0 && cellThree == 0 ) {
    cellFour = 1;
}
```



Declarative

```
input:checked + input:not(:checked) + input:not(:checked) + * {
    /* Style fourth cell to prompt human to change state */
}
```

Lara Schenck @laras126

Rule 110 in CSS/HTML/Human

A PEN BY Lara Schenck PRO

Fork | Change View

Click anywhere to start – the top right corner is the best spot!

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	X	X	0	X
0	0	0	0	0	0	0	0	0	0	0	0	0	X	X	0	0	0	X	0	0	0	0
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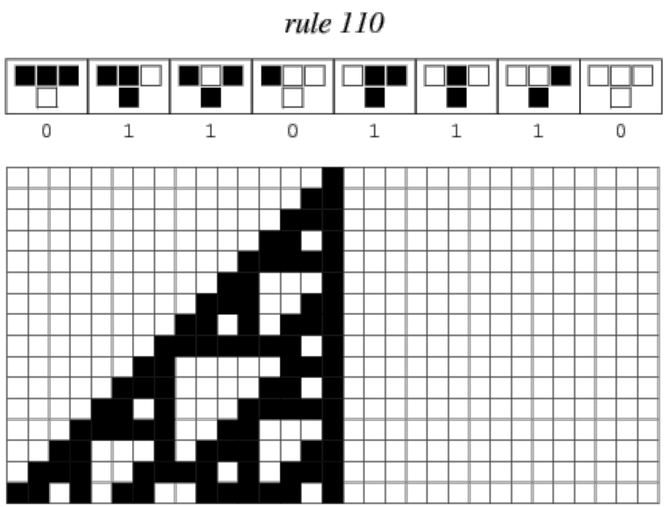


Rule 110 in CSS/HTML/Human

Lara Schenck @laras126

CSS
+
HTML
+
User

Turing Complete!

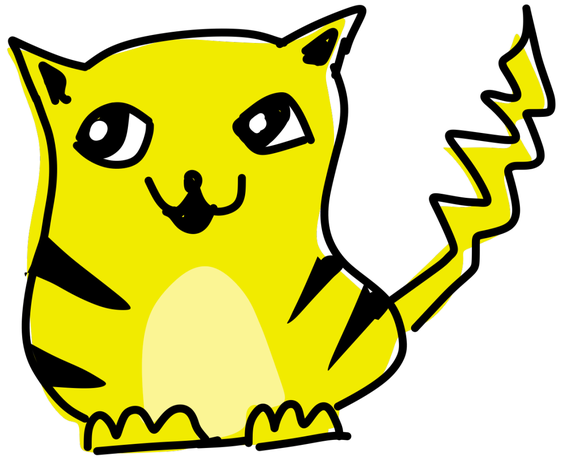
Powerful Trifecta

Lara Schenck @laras126

- SQL
- Excel
- Pokemon Yellow
- Minecraft
- Magic the Gathering

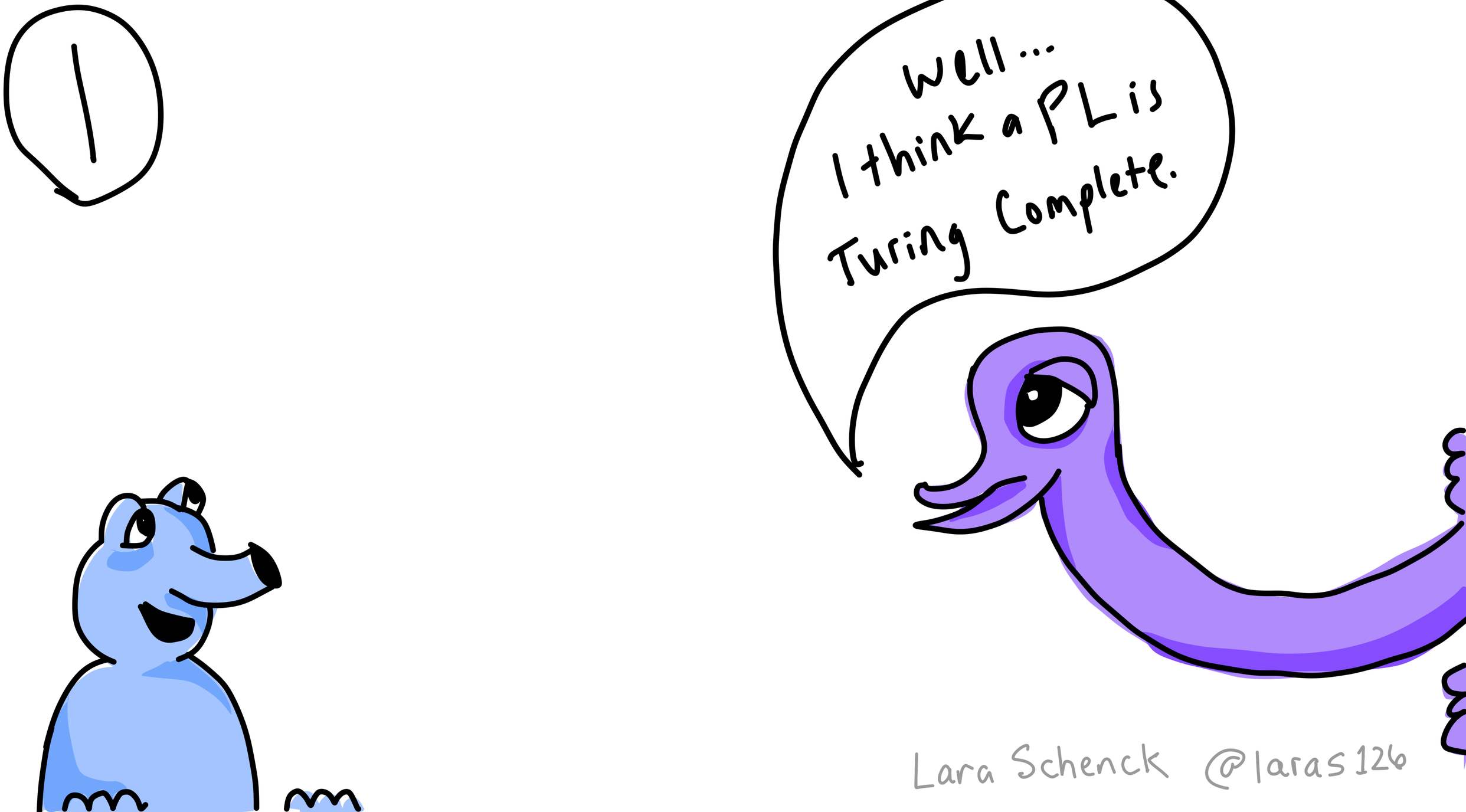
Turing Complete!

Programming languages?



Accidentally Turing Complete by Andreas Zwinkau

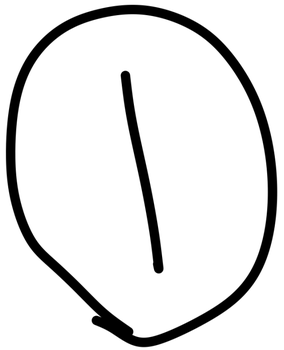
Lara Schenck @laras126

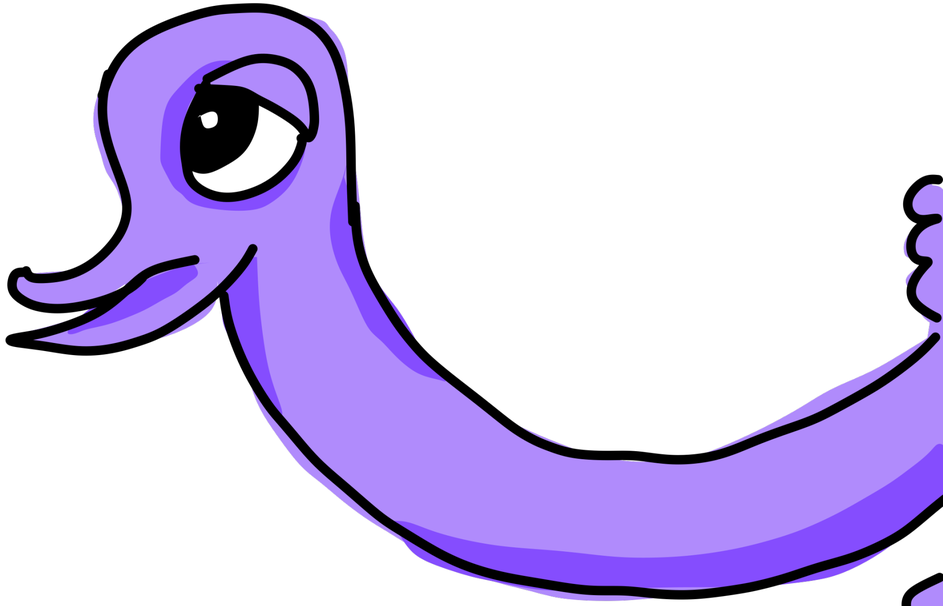

1
well...
I think a PL is
Turing Complete.
Lara Schenck @laras126

1
Along with HTML + user input, CSS is Turing complete!
Also, Pokemon Yellow is Turing Complete.
Lara Schenck @laras126

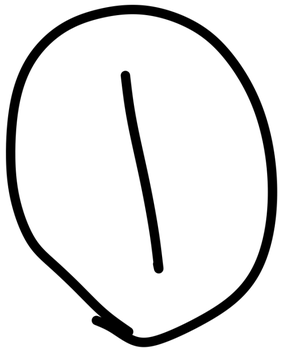
1
Fun facts! Thanks!
Lara Schenck @laras126

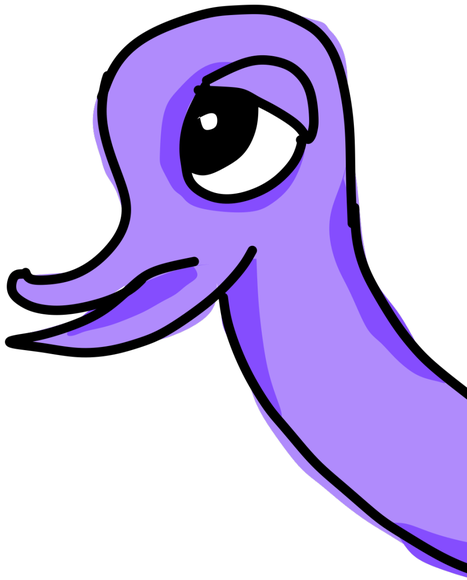
1
Does that mean Pokemon Yellow is a PL, too?
Lara Schenck @laras126



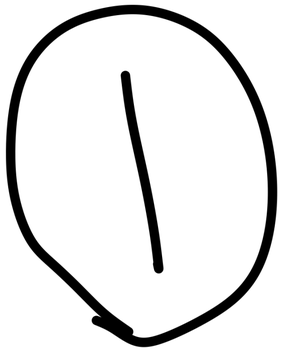


Lara Schenck @laras126

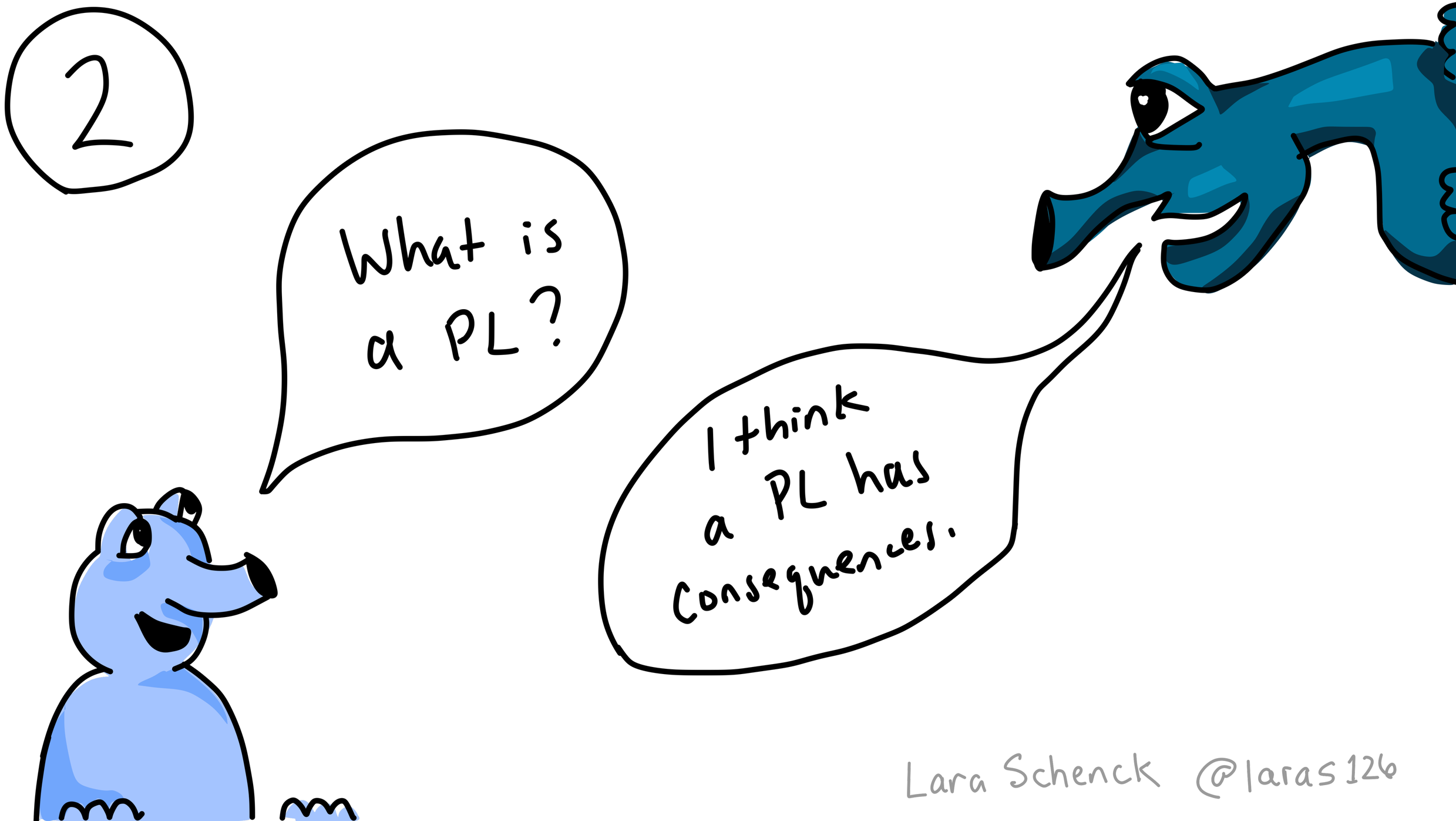




Lara Schenck @laras126



Lara Schenck @laras126


2
What is a PL?
I think a PL has consequences.
Lara Schenck @laras126

Lara Schenck @laras126

```css
.square {
    width: 100px;
    height: 100px;
    background-color: blue;
}
```

```html
<div class="square"></div>
```

Lara Schenck @laras126

```css
.square {
    width: 100px;
    height: 100px;
    background-color: blue;
}

.square--bigger {
    width: 150px;
    height: 150px;
}

.square--smaller {
    width: 50px;
    height: 50px;
}
```

```html
<div class="square"></div>
<div class="square square--bigger"></div>
<div class="square square--smaller"></div>
```

Lara Schenck @laras126

```css
.square {
    width: 100px;
    height: 100px;
    background-color: blue;
}
```

```html
<div class="square"></div>
```

Lara Schenck @laras126

```css
.square {
    --square-size: 100px;

    width: var( --square-size );
    height: var( --square-size );

    background-color: blue;
}
```

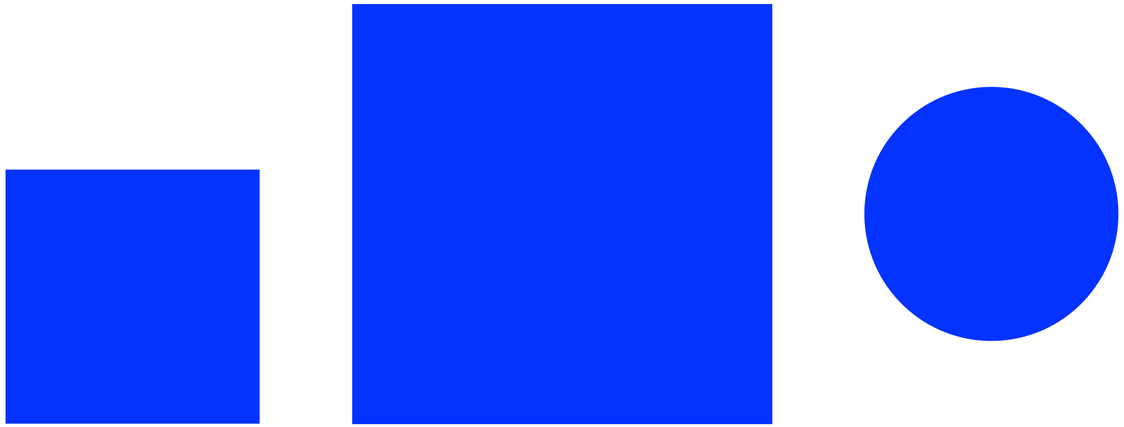
```html
<div class="square"></div>
```

Lara Schenck @laras126

```css
.square {
    --square-size: 100px;

    width: var( --square-size );
    height: var( --square-size );

    background-color: blue;
}

.square--bigger {
    --square-size: 150px;
}

.square--smaller {
    --square-size: 50px;
}
```

```html
<div class="square"></div>
<div class="square square--bigger"></div>
<div class="square square--smaller"></div>
```

Lara Schenck @laras126

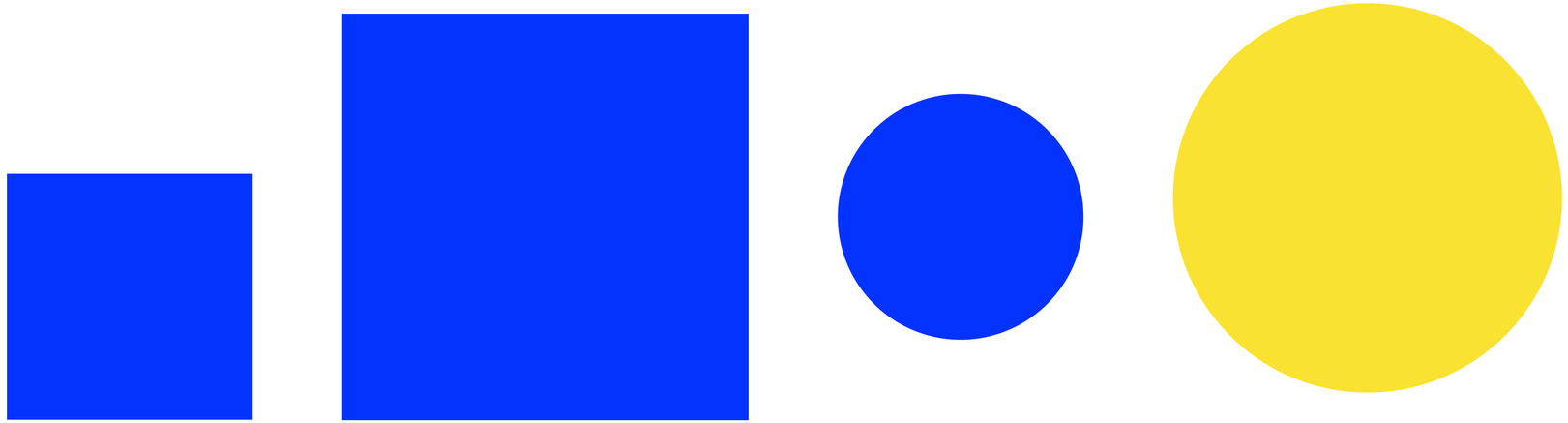


Lara Schenck @laras126

```css
.square {
    ...
}

.square--bigger {
    --square-size: 150px;
}

.square--smaller {
    --square-size: 50px;
}

.square--rounded {
    border-radius: 50%;
}
```

```html
<div class="square"></div>
<div class="square square--bigger"></div>
<div class="square square--smaller"></div>
<div class="square
            square--smaller
            square--rounded"></div>
```

Lara Schenck @laras126



Lara Schenck @laras126

```css
.square {
    ...
}

.square--bigger {
    --square-size: 150px;
}

.square--rounded {
    border-radius: 50%;
}

.square--yellow {
    background-color: yellow;
}
```

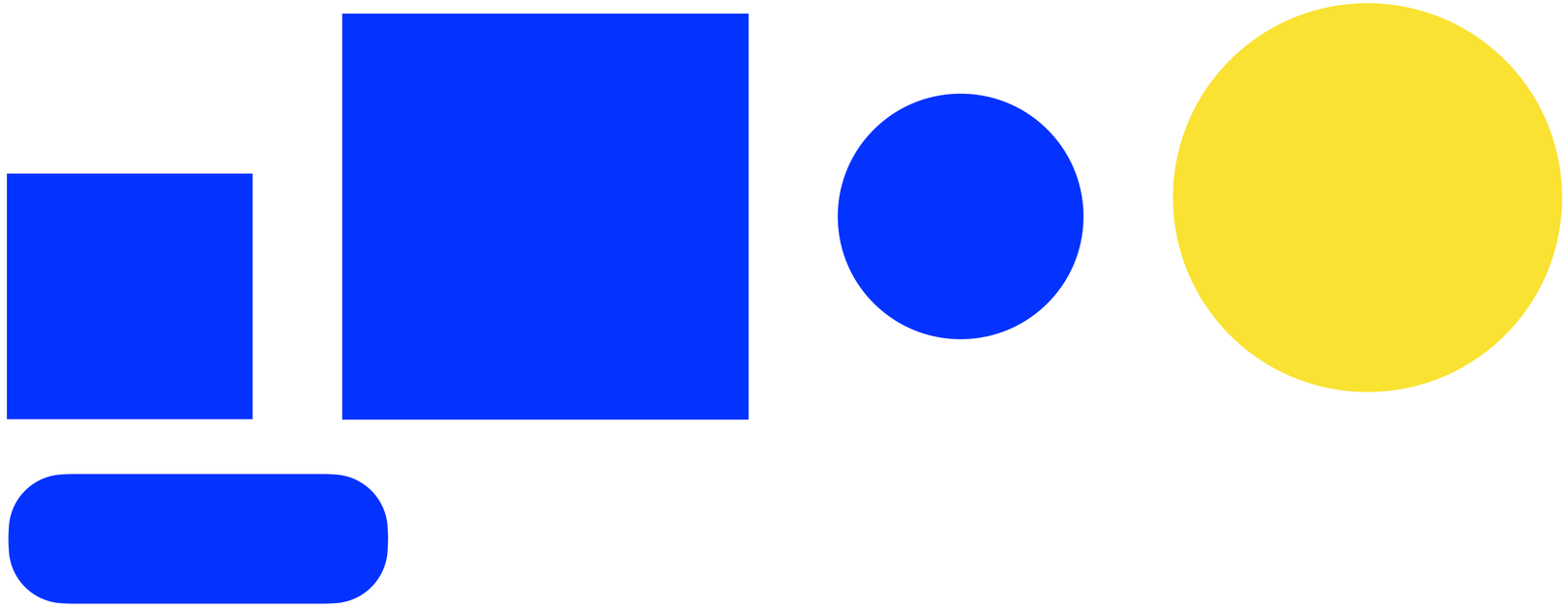
```html
<div class="square"></div>

<div class="square
            square--rounded
            square--bigger
            square--yellow"></div>
```

Lara Schenck @laras126

```
.square {
    --square-size: 100px;
    --square-bg-color: blue;
    ...

    background-color: var( --square-bg-color );
}

.square--bigger { ... }

.square--rounded { ... }

.square--yellow {
    --square-bg-color: yellow;
}
```

```
<div class="square"></div>

<div class="square
            square--rounded
            square--yellow"></div>
```

Lara Schenck @laras126



Lara Schenck @laras126

```css
.square {
    --square-size: 100px;
    --square-bg-color: blue;

    width: var( --square-size );
    height: var( --square-size );

    background-color: var( --square-bg-color );
}
```

```html
<div class="square"></div>
```

Lara Schenck @laras126

```c
.shape {
    --shape-height: 100px;
    --shape-width: 100px;
    --shape-bg-color: blue;

    width: var( --shape-width );
    height: var( --shape-height );

    background-color: var( --shape-bg-color );
}
```

```c
<div class="shape"></div>
```

Lara Schenck @laras126

```css
.shape { ... }

.shape--bigger {
    --shape-height: 150px;
    --shape-width: 150px;
}

.shape--smaller {
    --shape-height: 50px;
    --shape-width: 50px;
}

.shape--yellow { ... }

.shape--rounded { ... }
```

```html
<div class="shape"></div>

<div class="shape shape--bigger"></div>

<div class="shape shape--smaller"></div>

<div class="shape
            shape--rounded
            shape--bigger
            shape--yellow"></div>
```

Lara Schenck @laras126

```
.shape { ... }

.shape--big-square {
    --shape-height: 150px;
    --shape-width: 150px;
}

.shape--small-square {
    --shape-height: 50px;
    --shape-width: 50px;
}

.shape--yellow { ... }

.shape--rounded { ... }
```

```
<div class="shape"></div>

<div class="shape shape--big-square"></div>

<div class="shape shape--small-square"></div

<div class="shape
            shape--rounded
            shape--big-square
            shape--yellow"></div>
```

Lara Schenck @laras126

```
.shape { ... }

.shape--big-square { ... }

.shape--small-square { ... }

.shape--yellow { ... }

.shape--rounded { ... }

.shape--rectangle {
    --shape-height: 50px;
    --shape-width: 100px;
}
```

```
<div class="shape"></div>

<div class="shape shape--big-square"></div>

<div class="shape shape--small-square"></div

<div class="shape
            shape--rounded
            shape--big-square
            shape--yellow"></div>

<div class="shape shape--rectangle"></div>
```

Lara Schenck @laras126

```
.shape { ... }

.shape--big-square { ... }

.shape--small-square { ... }

.shape--yellow { ... }

.shape--rounded {
    border-radius: 50%;
}

.shape--rectangle { ... }
```

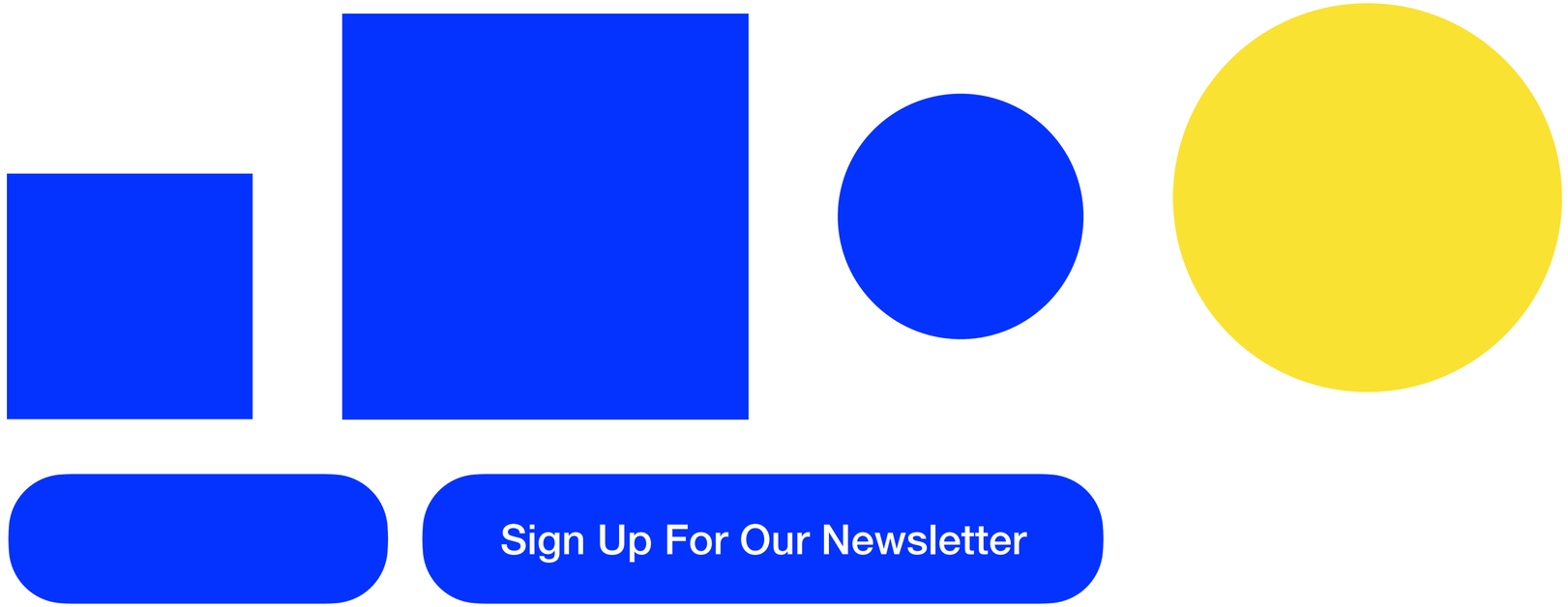
```
<div class="shape"></div>

<div class="shape shape--big-square"></div>

<div class="shape shape--small-square"></div

<div class="shape
            shape--rounded
            shape--big-square
            shape--yellow"></div>

<div class="shape shape--rectangle"></div>
```

Lara Schenck @laras126

```
.shape { ... }

.shape--big-square { ... }

.shape--small-square { ... }

.shape--yellow { ... }

.shape--circle {
    border-radius: 50%;
}

.shape--rounded {
    border-radius: 20px;
}

.shape--rectangle { ... }
```

```
<div class="shape"></div>

<div class="shape shape--big-square"></div>

<div class="shape shape--small-square"></div

<div class="shape
            shape--circle
            shape--big-square
            shape--yellow"></div>

<div class="shape
            shape--rectangle
            shape--rounded"></div>
```

Lara Schenck @laras126



Lara Schenck @laras126

```
.shape { ... }

.shape__text {
    color: white;
    font-size: 16px;
}
.shape--big-square { ... }

.shape--small-square { ... }

.shape--yellow { ... }

.shape--rounded { ... }

.shape--circle { ... }

.shape--has-text {
    --shape-height: initial;
    --shape-width: initial;
}
```

```
<div class="shape"></div>

<div class="shape shape--big-square"></div>

<div class="shape shape--small-square"></div

<div class="shape
            shape--circle
            shape--big-square
            shape--yellow"></div>

<div class="shape
            shape--rounded-rectangle"></div>

<button class="shape shape--has-text">
    <a href="" class="shape__text"></a>
</button>
```

Lara Schenck @laras126

Lara Schenck @laras126

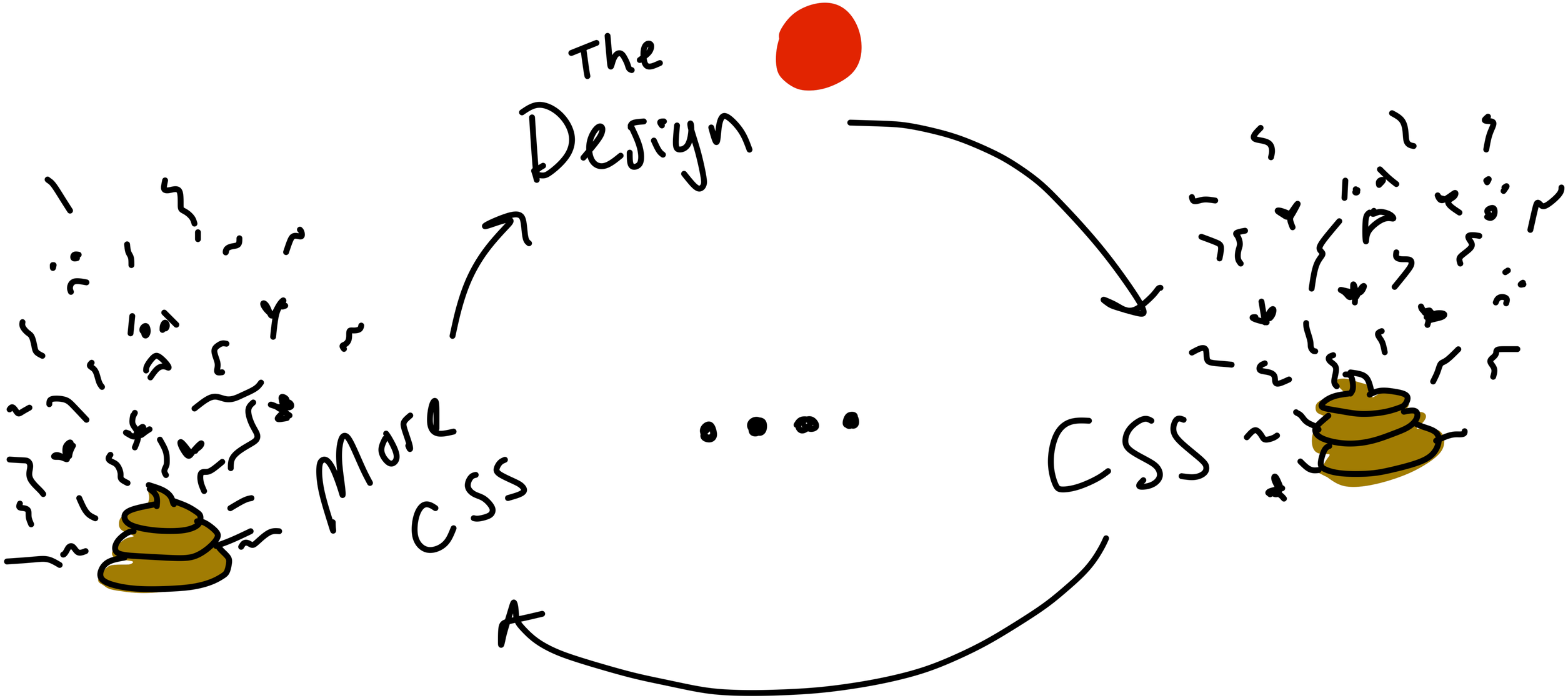
```
.shape { ... }

.shape__text {
    color: white;
    font-size: 16px;
}
.shape--big-square { ... }

.shape--small-square { ... }

.shape--rounded-rectangle { ... }

.shape--yellow { ... }

.shape--circle { ... }

.shape--has-text {
    --shape-height: initial;
    --shape-width: initial;
}
```

```
<div class="shape"></div>

<div class="shape shape--big-square"></div>

<div class="shape shape--small-square"></div

<div class="shape
            shape--circle
            shape--big-square
            shape--yellow"></div>

<div class="shape
            shape--rounded-rectangle"></div>

<button class="shape shape--has-text">
    <a href="" class="shape__text"></a>
</button>
```

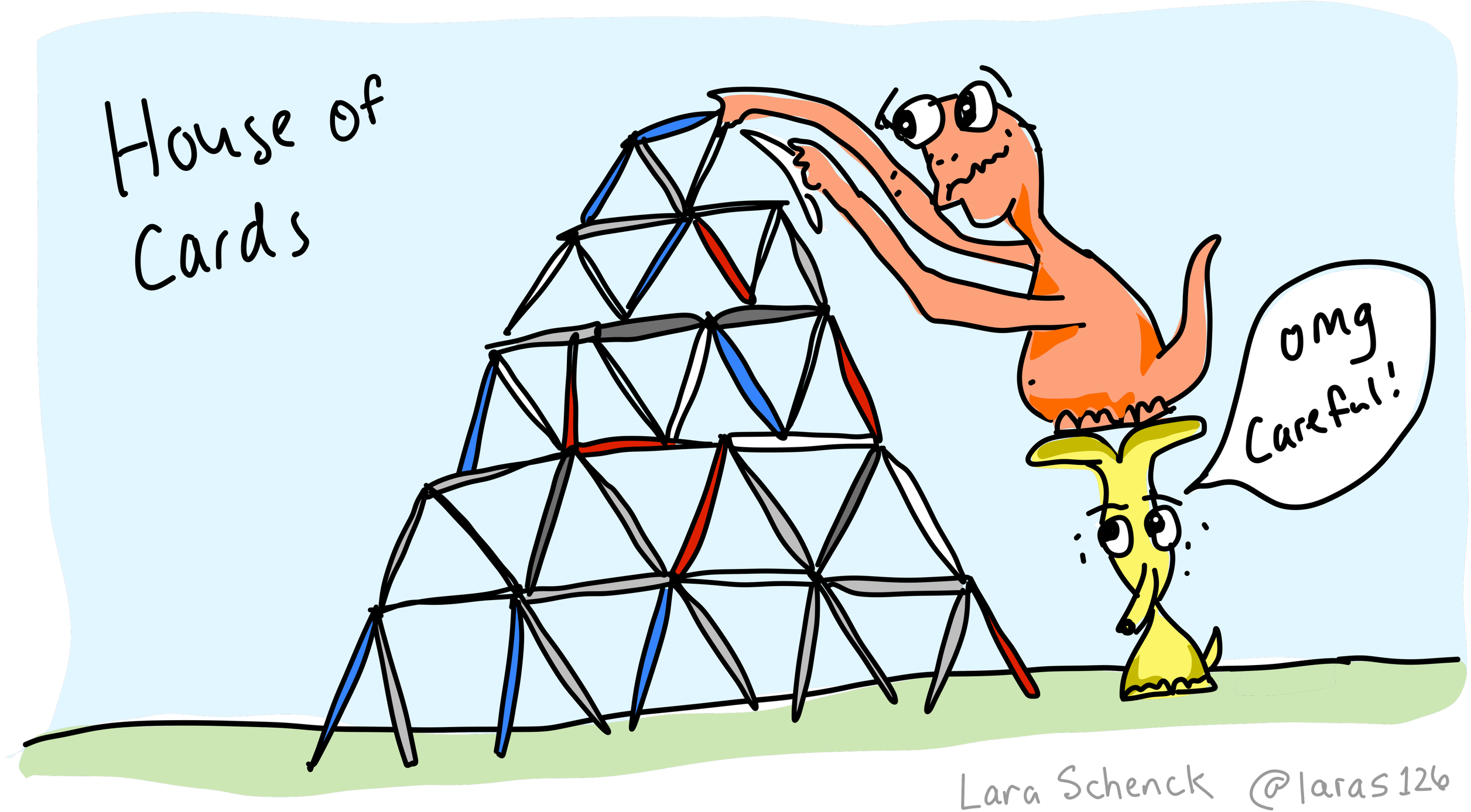
Lara Schenck @laras126

Turd Driven Development

Lara Schenck @laras126

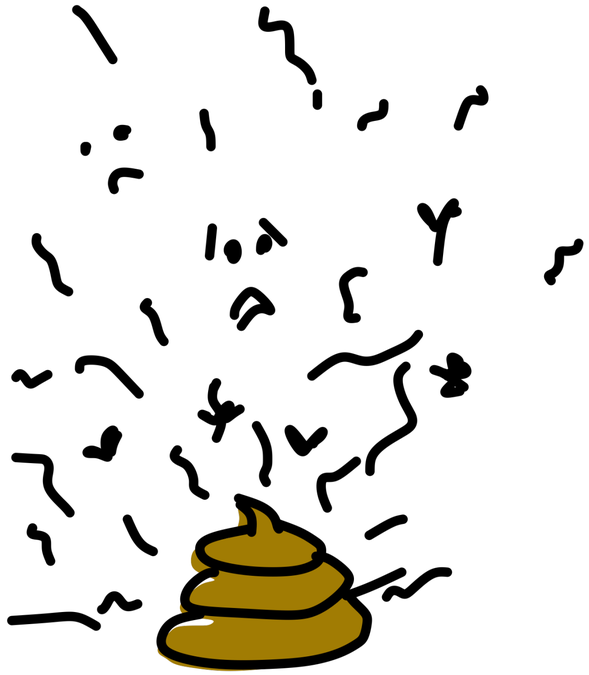


Lara Schenck @laras126


House of Cards
omg Careful!
Lara Schenck @laras126

- archive.scss
- cards
- components
- core
- helpers
- home.scss
- layouts
- main.scss
- modules
- page-ac...gital.scss
- page-m...ting.scss
- page-va...mier.scss
- patterns
- premier
- README.md
- single.scss
- styleguide.md

- _c-card--badge.scss
- _c-card--bold.scss
- _c-card--boxed.scss
- _c-card--dirt-lead-story.scss
- _c-card--executive-list.scss
- _c-card--feature-story.scss
- _c-card--featured.scss
- _c-card--focus-featured.scss
- _c-card--grid-featured.scss
- _c-card--grid-story.scss
- _c-card--inverted.scss
- _c-card--lead-story.scss
- _c-card--list.scss
- _c-card--marketing-feature.scss
- _c-card--must-read.scss
- _c-card--overlay.scss
- _c-card--reduced.scss
- _c-card--review.scss
- _c-card--river.scss
- _c-card--section.scss
- _c-card--slide.scss
- _c-card--small.scss
- _c-card--top-story.scss



Lara Schenck @laras126

- archive.scss
- cards
- components
- core
- helpers
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- page-ac...gital.scss
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- _c-card--dirt-lead-story.scss
- _c-card--executive-list.scss
- _c-card--feature-story.scss
- _c-card--featured.scss
- _c-card--focus-featured.scss
- _c-card--grid-featured.scss
- _c-card--grid-story.scss
- _c-card--inverted.scss
- _c-card--lead-story.scss
- _c-card--list.scss
- _c-card--marketing-feature.scss
- _c-card--must-read.scss
- _c-card--overlay.scss
- _c-card--reduced.scss
- _c-card--review.scss
- _c-card--river.scss
- _c-card--section.scss
- _c-card--slide.scss
- _c-card--small.scss
- _c-card--top-story.scss

Lara Schenck @laras126

"One of our difficulties will be the maintenance of an appropriate discipline, so that we do not lose track of what we are doing."

– Alan Turing, 1945

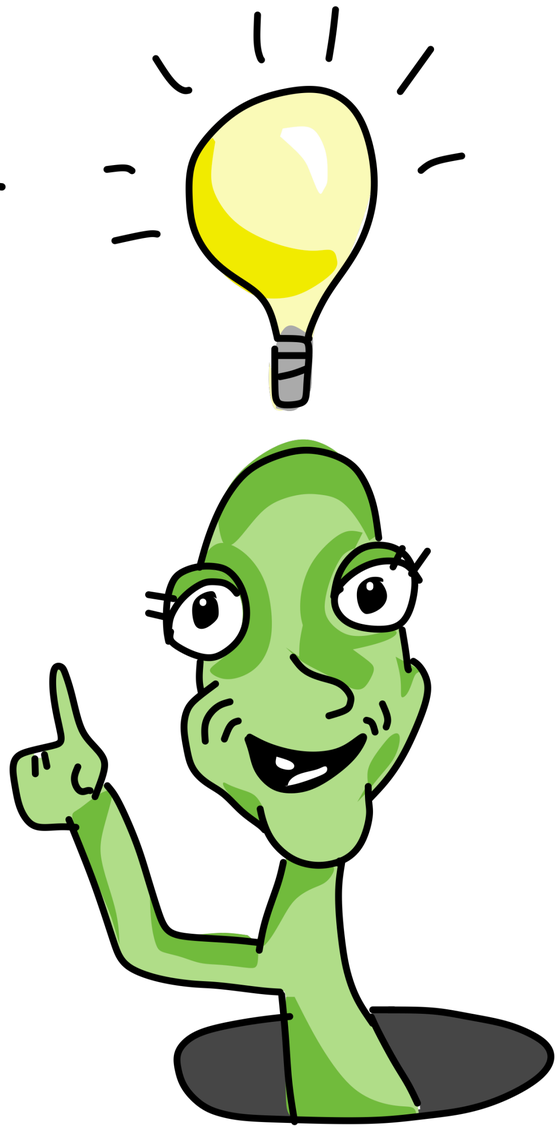
major consequences

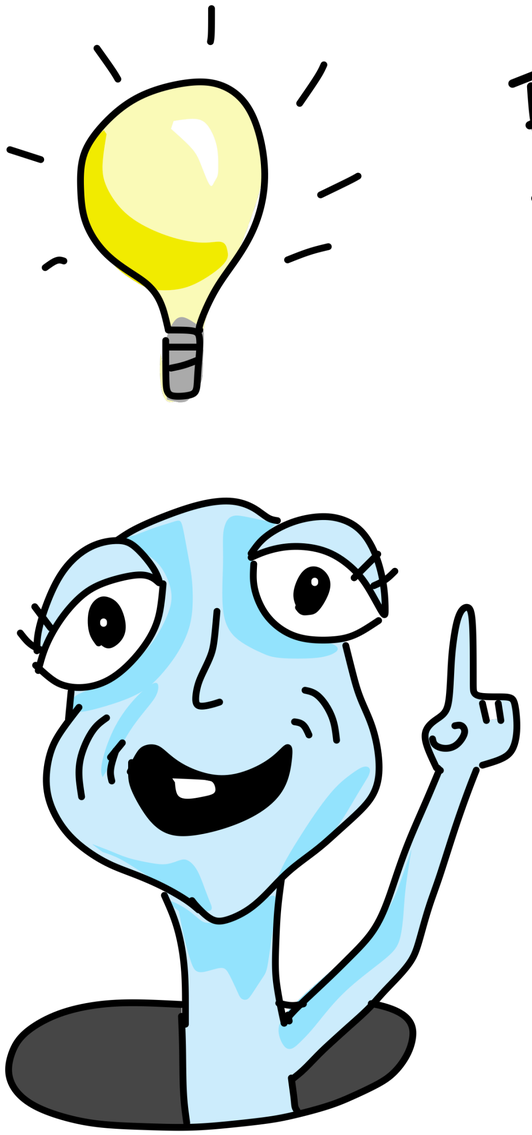
Robert C. Martin in The Future of Programming

Lara Schenck @laras126

General Software

Object Oriented!
Agile!
Design Patterns!
Testing!
Refactoring!
Abstractions!
Encapsulation!
SOLID!





Front End

Design Systems!
Atomic Design!
Progressive Enhancement!
ITCSS! SUIT CSS!
OOCSS! BEM!
Functional CSS!

Lara Schenck @laras126

General Software

- Object Oriented!
- Agile!
- Design Patterns!
- Testing!
- Refactoring!
- Abstractions!
- Encapsulation!
- SOLID!

Front End

- Design Systems!
- Atomic Design!
- Progressive Enhancement!
- ITCSS! SUIT CSS!
- OOCSS! BEM!
- Functional CSS!

Lara Schenck @laras126

NAMING

is really hard + extremely important

Lara Schenck @laras126

```
.square {
    width: 100px;
    height: 100px;
    background-color: blue;
}
```

```
<div class="square"></div>
```

Will it always be a square?

Probably not!

Lara Schenck @laras126

```
.shape {
    --shape-height: 100px;
    --shape-width: 100px;
    --shape-bg-color: blue;

    width: var( --shape-width );
    height: var( --shape-height );

    background-color: var( --shape-bg-color );
}
```

```
<div class="shape"></div>
```

Isn't EVERYTHING a shape?!
What is life?!

Lara Schenck @laras126

"Take care with your names and change them when you find better ones."

- Robert C. Martin in Clean Code

Lara Schenck @laras126

Lara Schenck @laras126

Programming != logic, math, science, engineering

Lara Schenck @laras126

Programming == writing instructions for computers that other developers are able to read and maintain

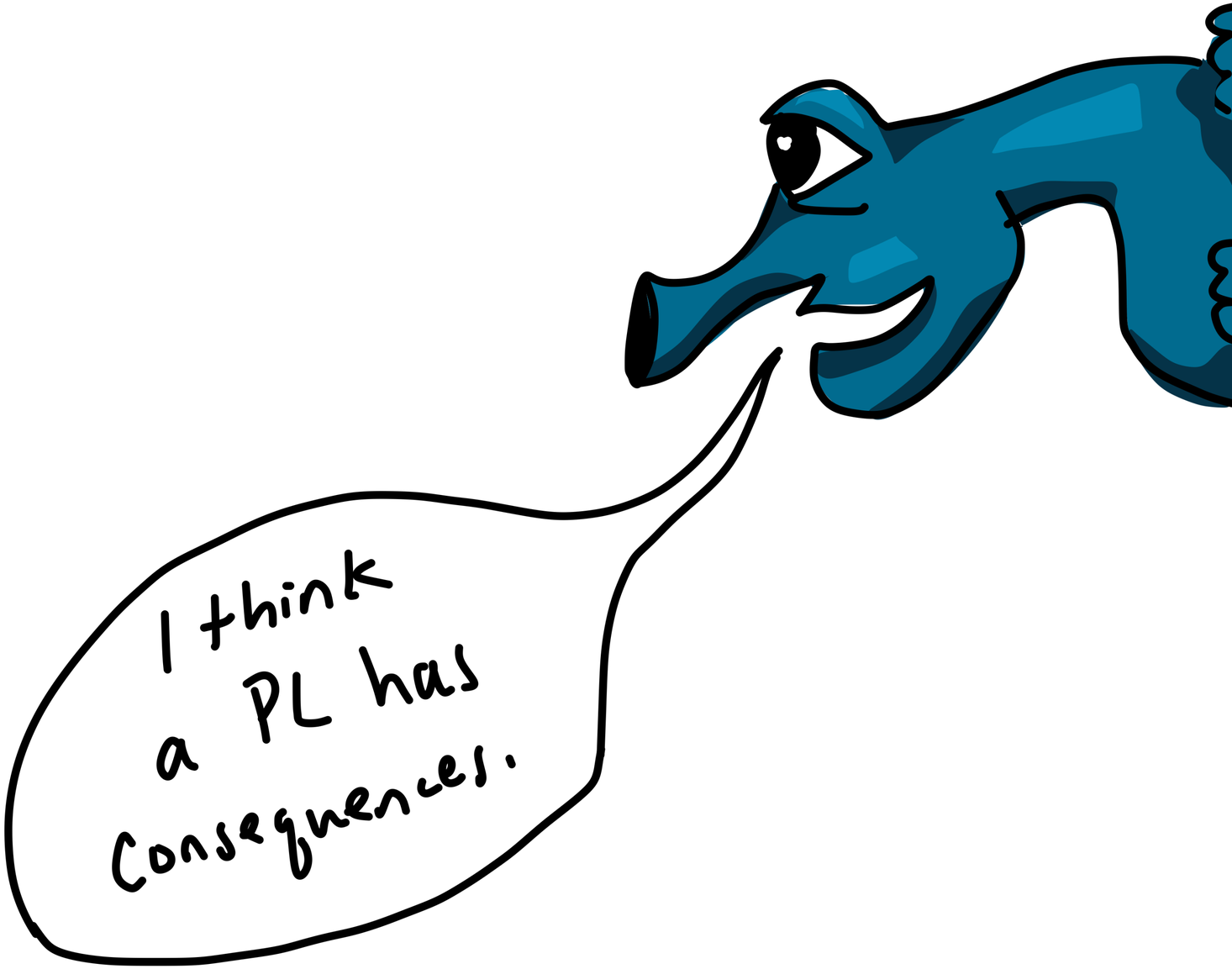
Lara Schenck @laras126

"Both writing and programming can be described as the translation of a high-level idea into low level sentences or statements."

– Felienne Hermans & Marlies Aldewereld

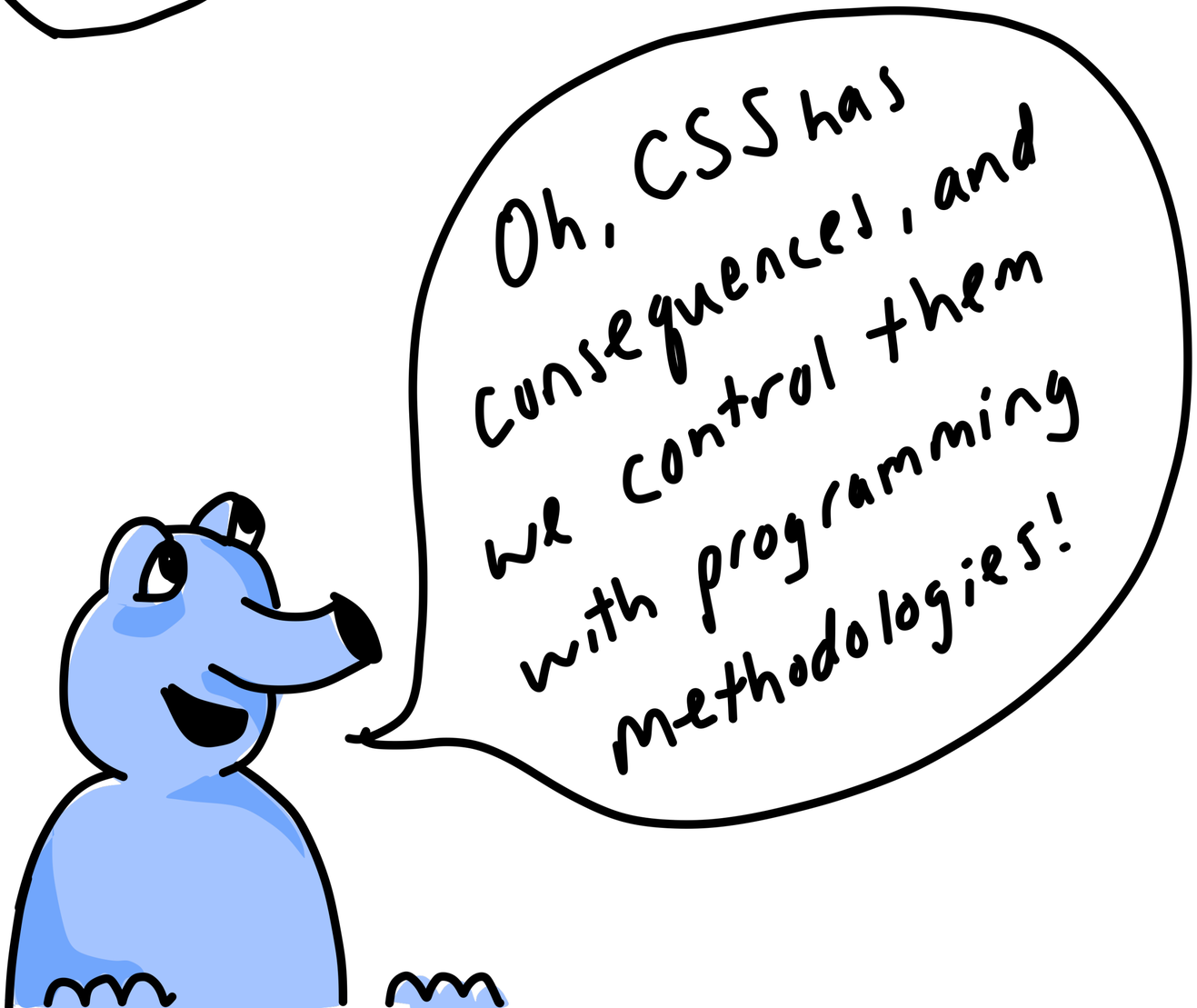
Lara Schenck @laras126

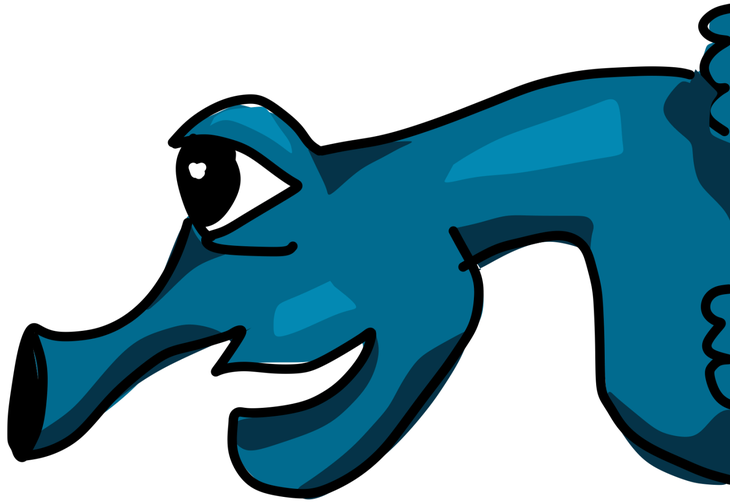
2



Lara Schenck @laras126

2

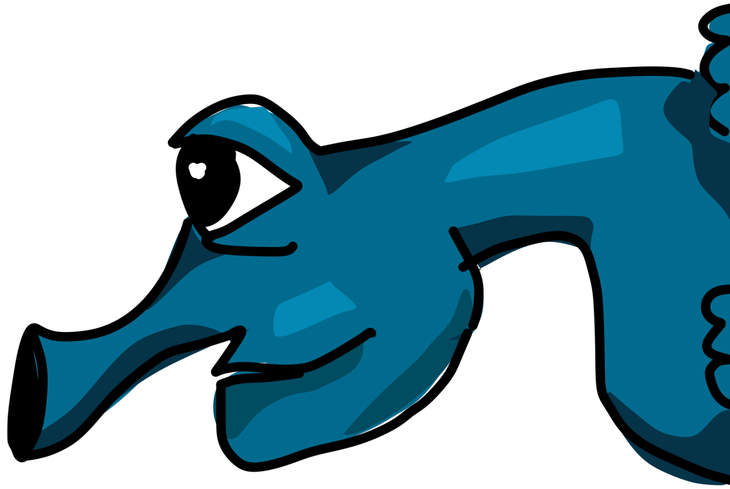




Lara Schenck @laras126

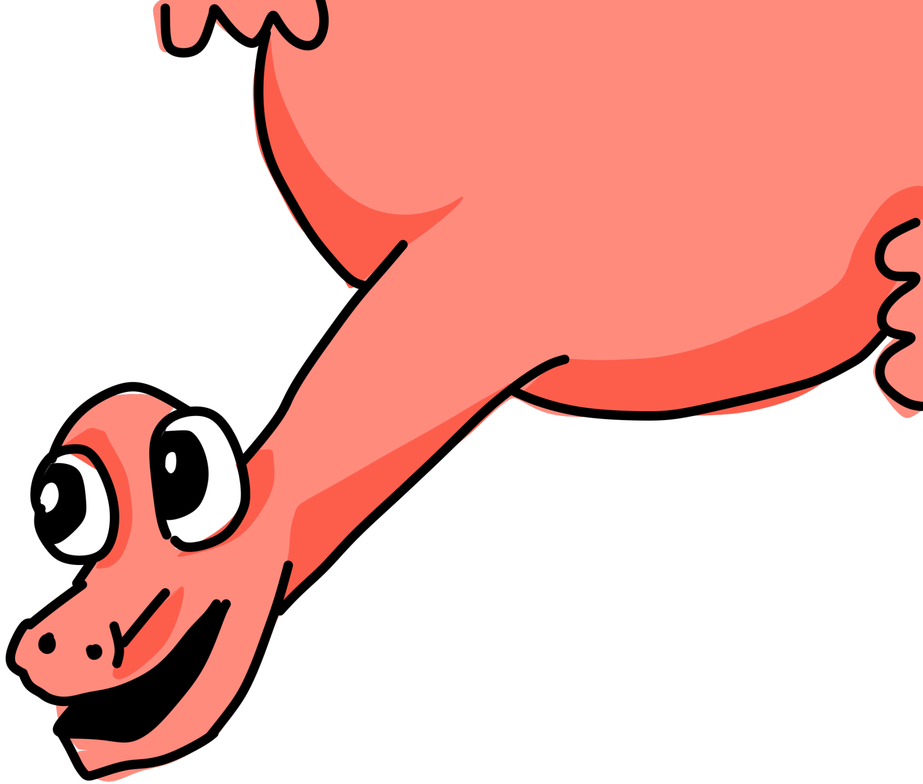
Lara Schenck @laras126

2

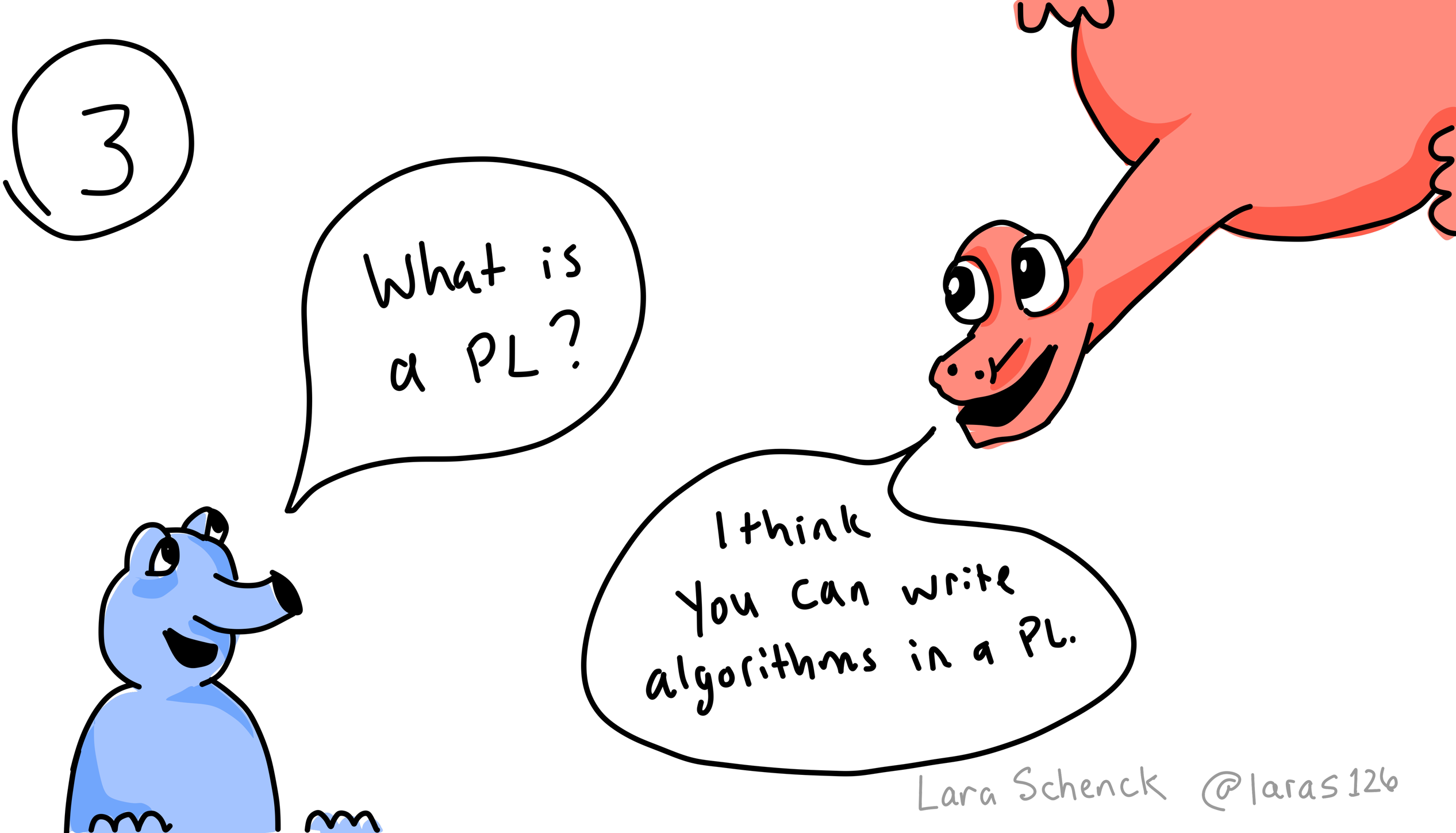


Lara Schenck @laras126

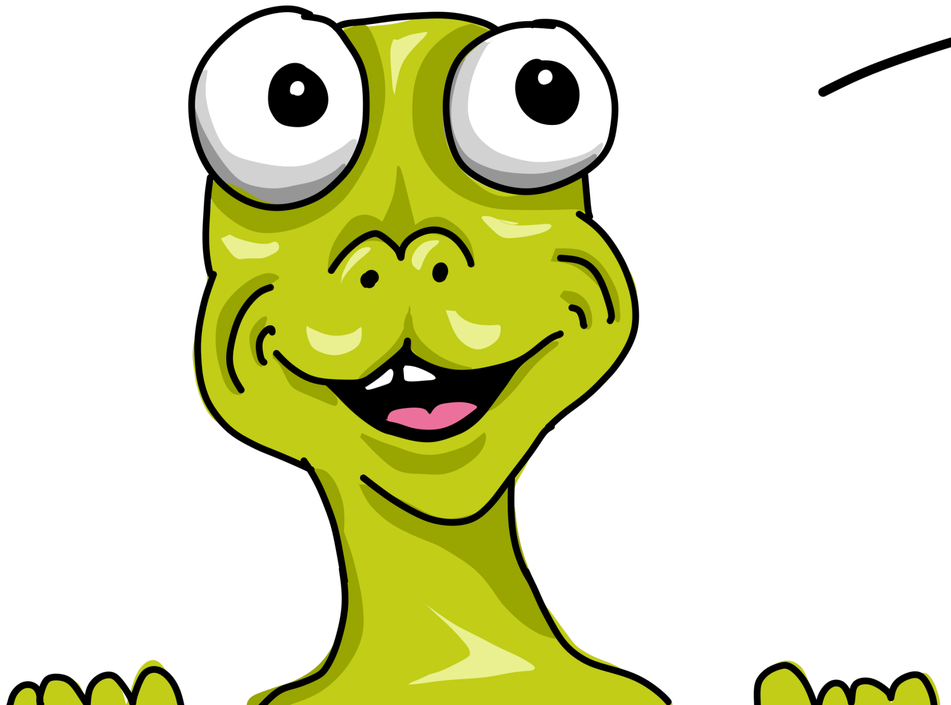
3



Lara Schenck @laras126


3
What is a PL?
I think you can write algorithms in a PL.
Lara Schenck @laras126

Algorithms 101



Lara Schenck @laras126

A well-defined computational procedure that takes input and produces output.

Thomas Cormen

Lara Schenck @laras126

Input

Algorithm

Output

4213 → ? → 1234

Lara Schenck @laras126

Input		Algorithm		Output
4213	→	bubbleSort() selectionSort() mergeSort() quicksort()	→	1234

Lara Schenck @laras126

```javascript
function sort(array) {
  for (let i = 0; i < array.length; i++) {
    for (let ii = 0; ii < array.length; ii++) {

      if (array[ii] > array[ii+1]) {
        let temp = array[ii];
        array[ii] = array[ii+1];
        array[ii+1] = temp;
      }

    }
  }
  return array;
}

var sorted = sort([4, 2, 1, 3]);
```

imperative JavaScript

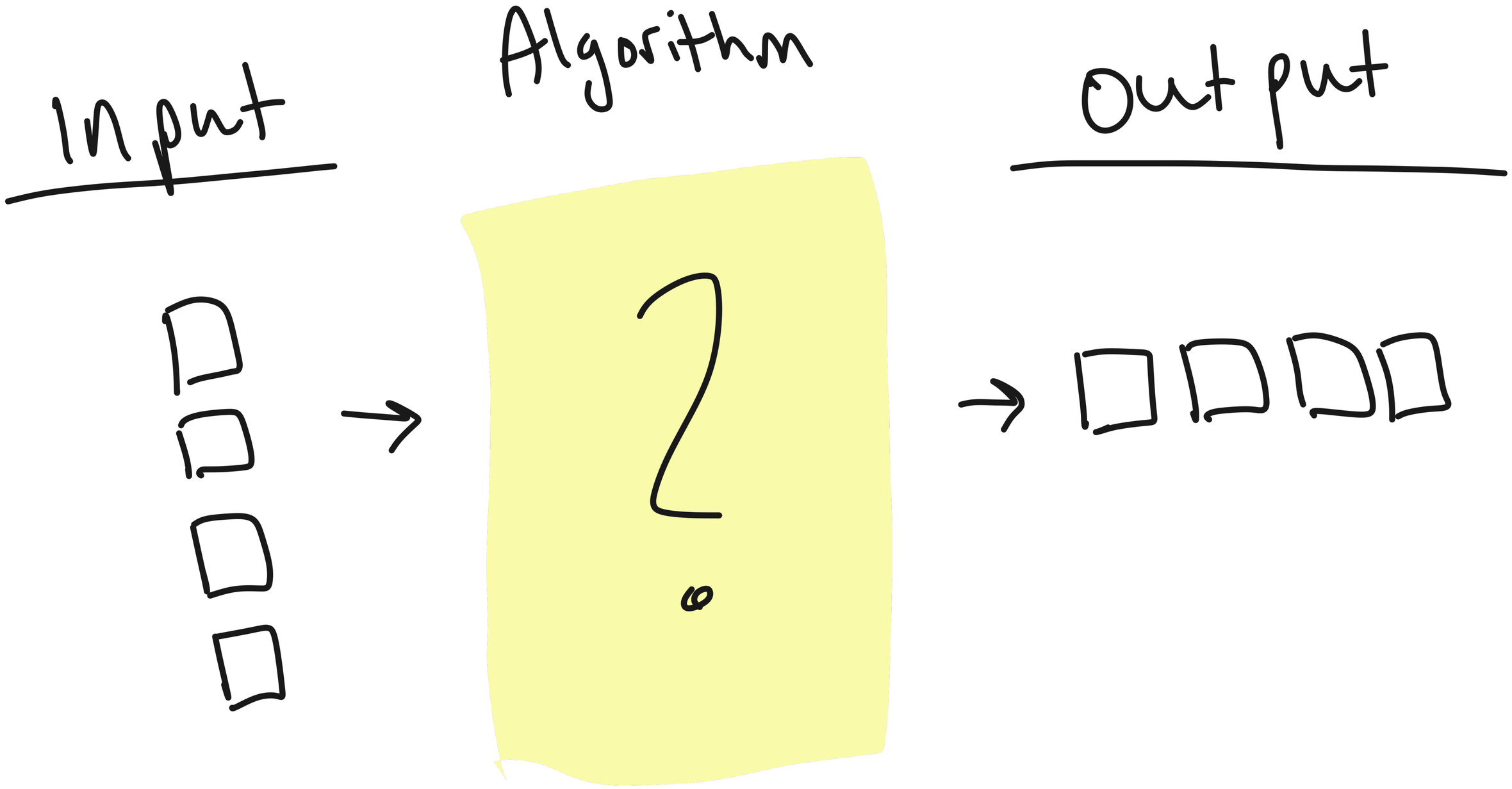
Lara Schenck @laras126

```javascript
function sort(array) {
  for (let i = 0; i < array.length; i++) {
    for (let ii = 0; ii < array.length; ii++) {

      if (array[ii] > array[ii+1]) {
        let temp = array[ii];
        array[ii] = array[ii+1];
        array[ii+1] = temp;
      }


    }
  }
  return array;
}
```

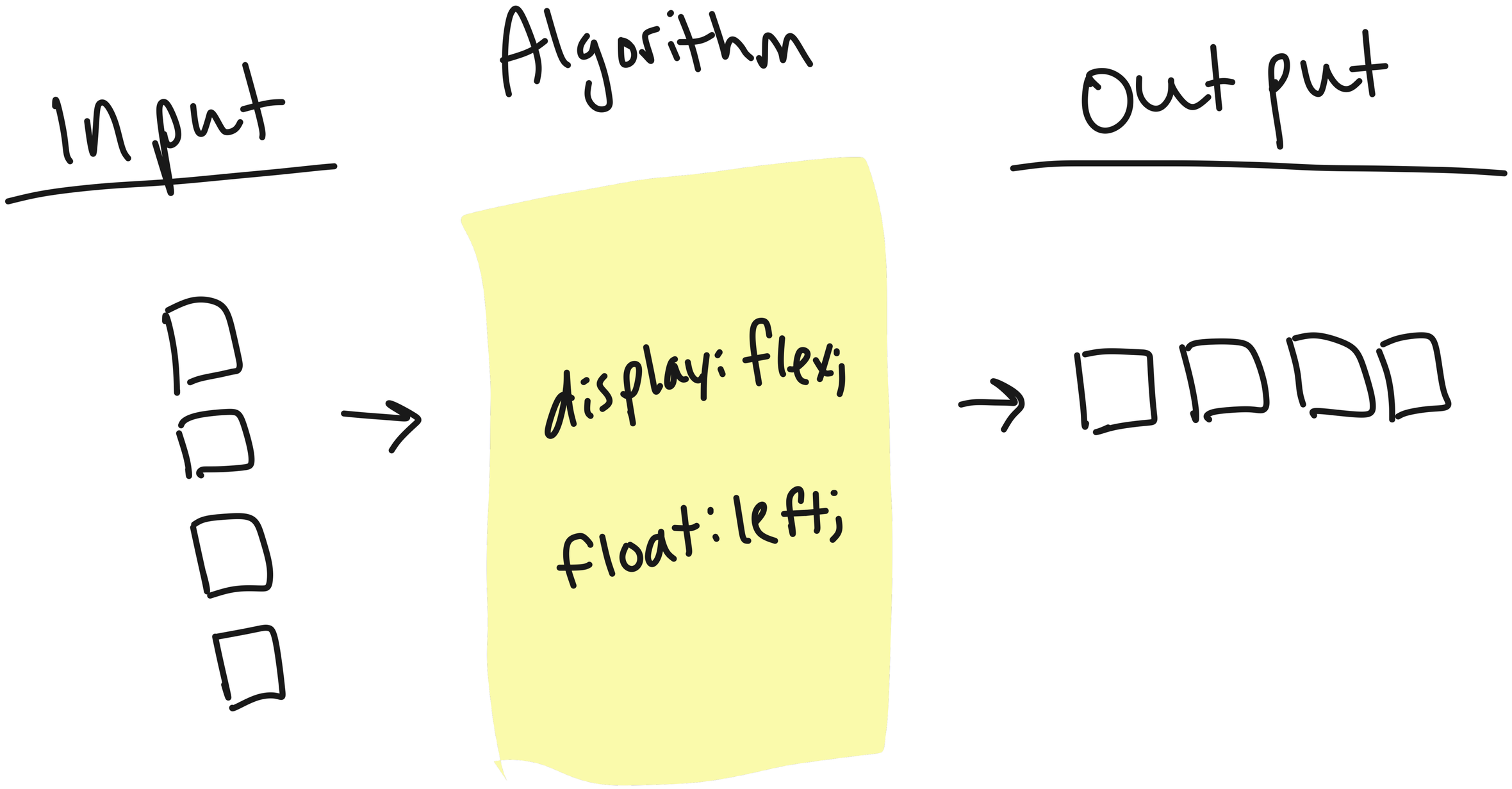
imperative JavaScript ♥

```javascript
var sorted = sort([4, 2, 1, 3]);
```

Lara Schenck @laras126



Lara Schenck @laras126



Lara Schenck @laras126

```
.container {
    display: flex;
}
```

declarative CSS!

Lara Schenck @laras126

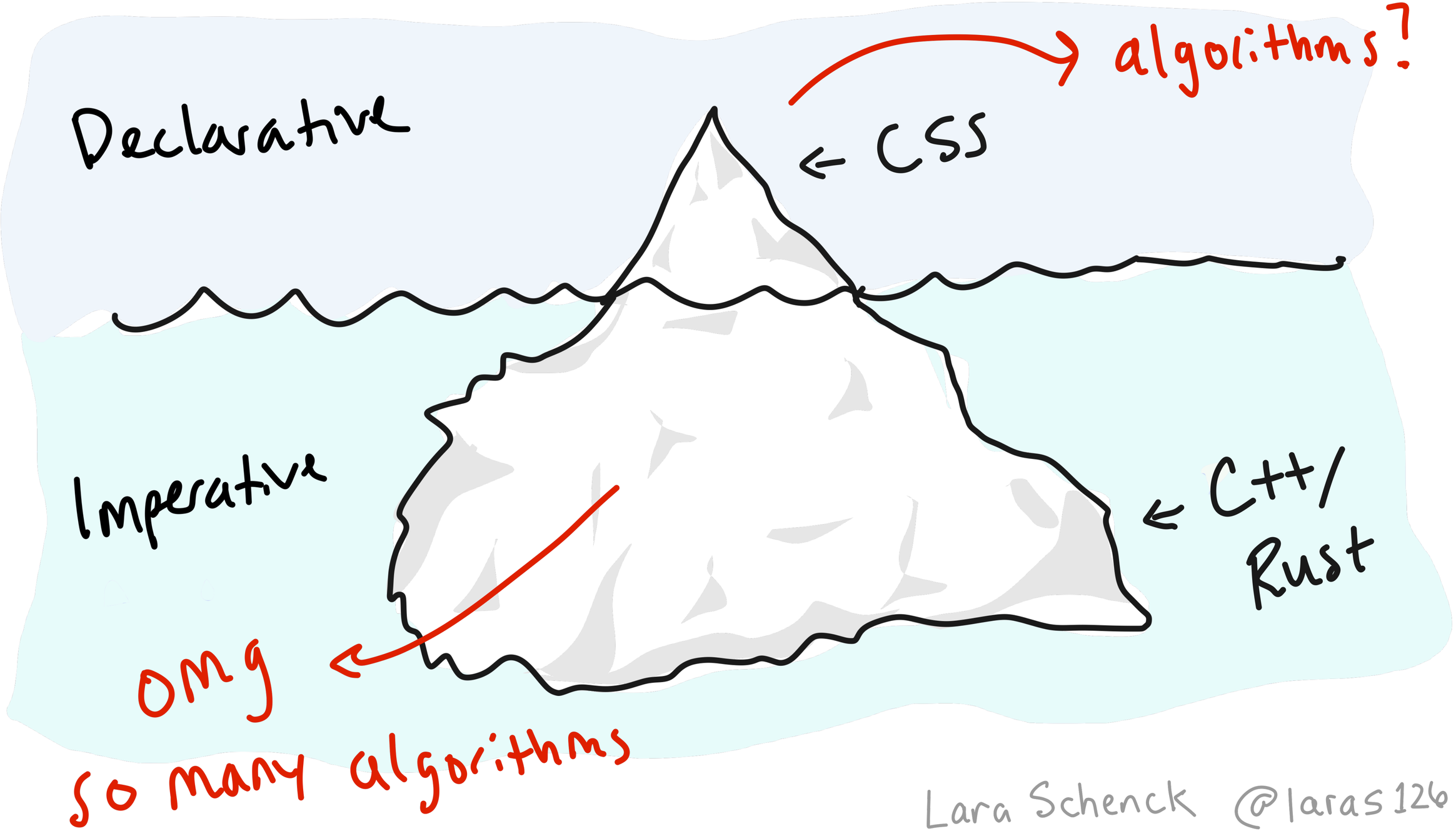
```
.container {
    display: flex;
    flex-wrap: wrap;
}
```

declarative logic

Lara Schenck @laras126

```rust
// Flex in Servo
// https://github.com/servo/servo/blob/master/components/layout/flex.rs

fn get_flex_line(&mut self, container_size: Au) -> Option<FlexLine> {
    ...
    for item in items {
        let kid = children.get(item.index);
        item.init_sizes(kid, container_size, self.main_mode);
        let outer_main_size = item.outer_main_size(kid, self.main_mode);
        if total_line_size + outer_main_size > container_size &&
            end != start &&
            self.is_wrappable
        {
            break;
        }
    }
    ...
}
```

Lara Schenck @laras126



Lara Schenck @laras126

```
.container {
    display: flex;
    flex-wrap: wrap;
}
```

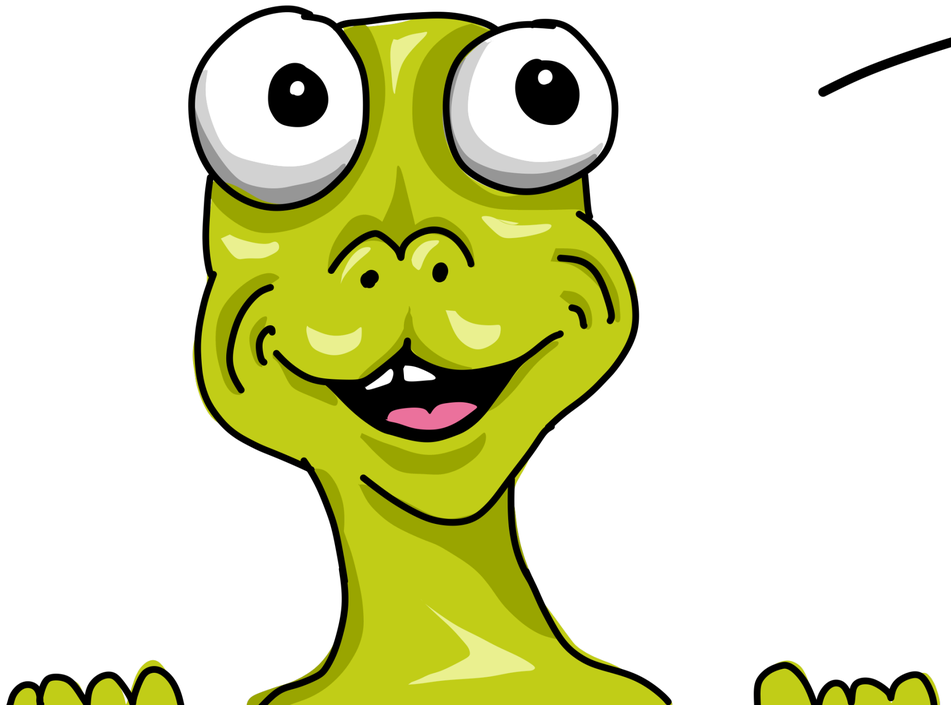
Algorithm?

Lara Schenck @laras126

Why not?

Lara Schenck @laras126

Algorithms 101



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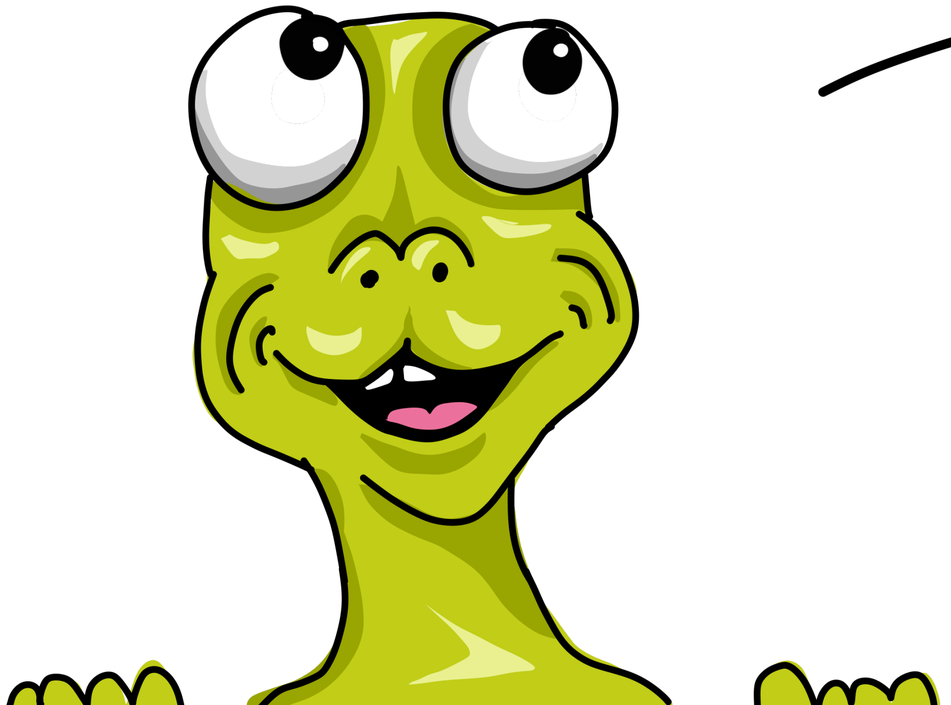
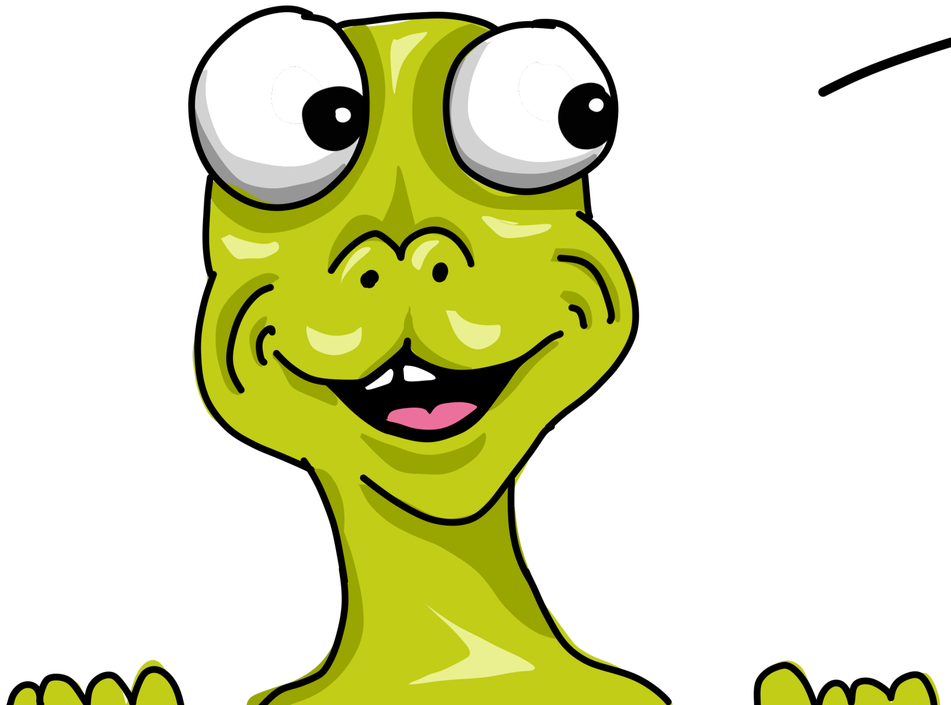
CSS Algorithms 101



Lara Schenck @laras126

CSS Algorithms 101



Domain-specific!

Declarative!

Lara Schenck @laras126

A CSS algorithm is a well-defined declaration or set of declarations that produces a specific styling output.

♡ Lara Schenck

Lara Schenck @laras126

CSS

Lara Schenck @laras126

You Know what this is.

Lara Schenck @laras126

```
.clearfix::before,
.clearfix::after {
    content: "";
    display: table;
}

.clearfix::after {
    clear: both;
}
```

Lara Schenck @laras126

```
.relative-parent {
    position: relative;
}

.child-stuck-to-bottom-right-of-closest-relative-parent {
    position: absolute;
    right: 0;
    bottom: 0;
}
```

Amazing! Elegant!

Lara Schenck @laras126

```
.spaced-content > * + * {
    margin-top: 1rem;
}
```

Lobotomized Owl!
(Heydon Pickering)

Lara Schenck @laras126

```
h1 {
    font-size: calc( 2rem + 3vw );
}

// Stops growing at 800px
@media( min-width: 800px ) {
    h1 {
        font-size: calc( 2rem + ( 800px *  ( 3 / 100 ) ) );
    }
}
```

Linear Interpolation?!

Lara Schenck @laras126

```
.grid {
    display: grid;
    grid-template-columns: repeat( var( --grid-cols, 1 ), 1fr );
}

.grid-cols3 {
    --grid-cols: 3;
}

.grid-cols4 {
    --grid-cols: 4;
}

.grid-item-span2 {
    grid-column: span 2;
}
```

OMG!!!!
.....
So great!!!
....

Lara Schenck @laras126

A CSS algorithm is a well-defined declaration or set of declarations that produces a specific styling output.

♡ Lara Schenck

Lara Schenck @laras126

A CSS algorithm is
a utility pattern that lets
the browser algorithms
do the work... and ...

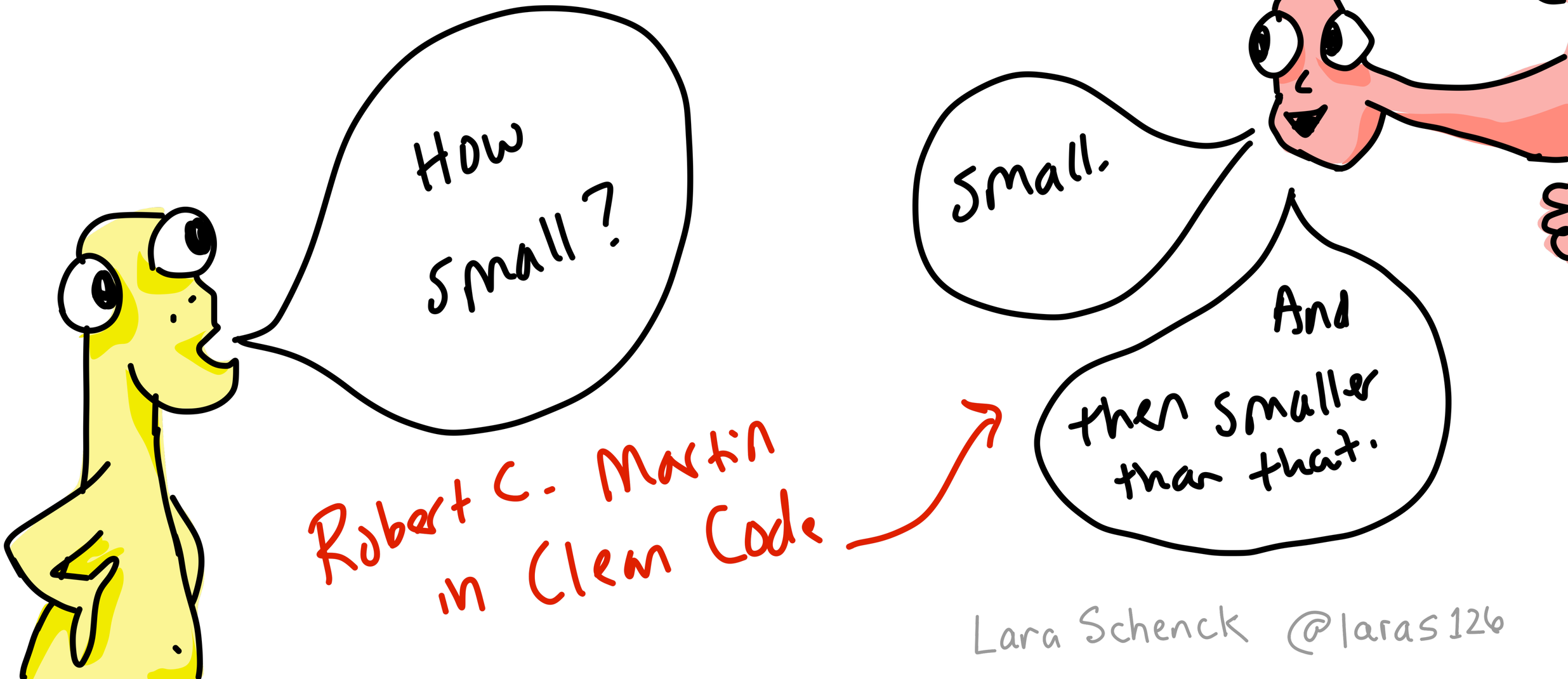
♡ Lara Schenck

Lara Schenck @laras126

Single Responsibility Principle

Lara Schenck @laras126

Small, well-named functions



Robert C. Martin in Clean Code

Lara Schenck @laras126

Lara Schenck @laras126

In The Real World

(not writing the next clear fix, probably)

Lara Schenck @laras126

Ops
^
Design Engineer
@
PMC

Lara Schenck @laras126

UI Engineer

@

PMC

Lara Schenck @laras126

The Design Systems-er @ PMC

Lara Schenck @laras126

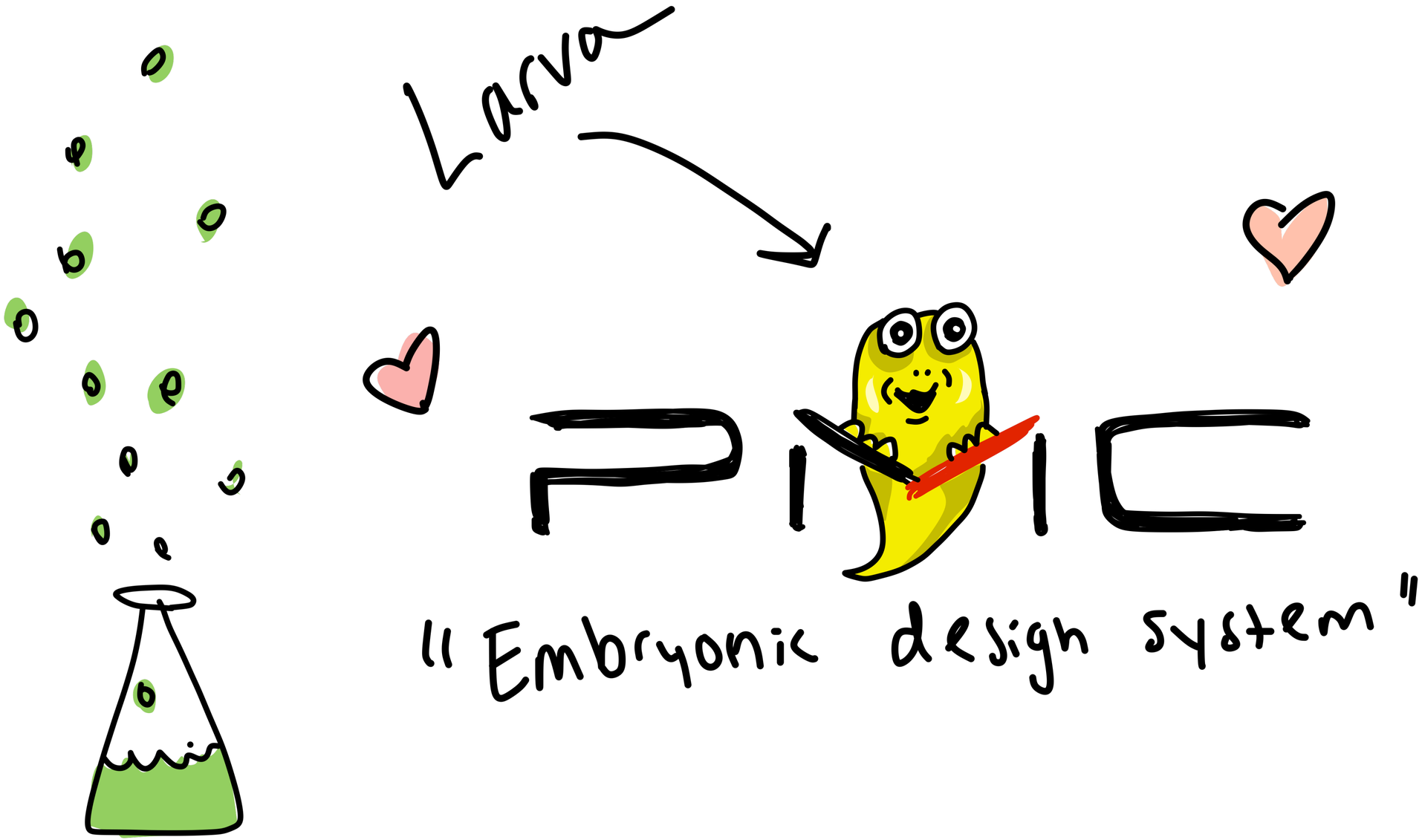
The first ~~only~~ FE dev

@

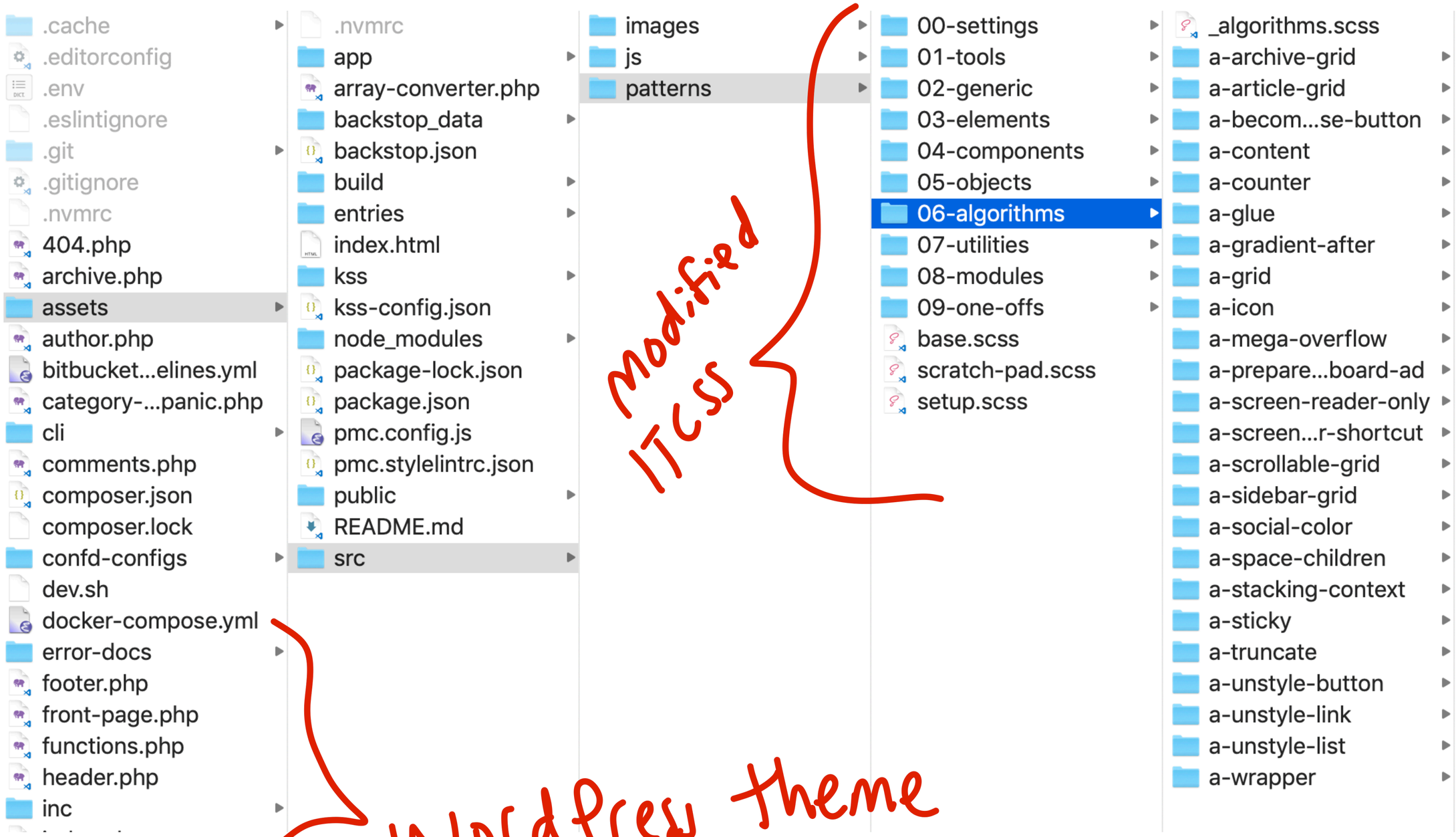
PMC

NOT any more!!!!

Lara Schenck @laras126



Lara Schenck @laras126



Lara Schenck @laras126

npm packages

- .babelrc
- .editorconfig
- .git
- .gitignore
- .npmrc
- jest-setup.js
- jest.config.js
- larva.config.js
- lerna.json
- node_modules
- package-lock.json
- package.json
- packages
- README.md

- larva
- larva-css
- larva-js
- larva-patterns
- larva-scss
- larva-svg
- stylelint-config
- stylelint-css-algorithms
- twig-to-php-parser

- .npmrc
- browser-t...t-setup.js
- build
- gulpfile.js
- node_modules
- package.json
- README.md
- src
- stylelint.config.js

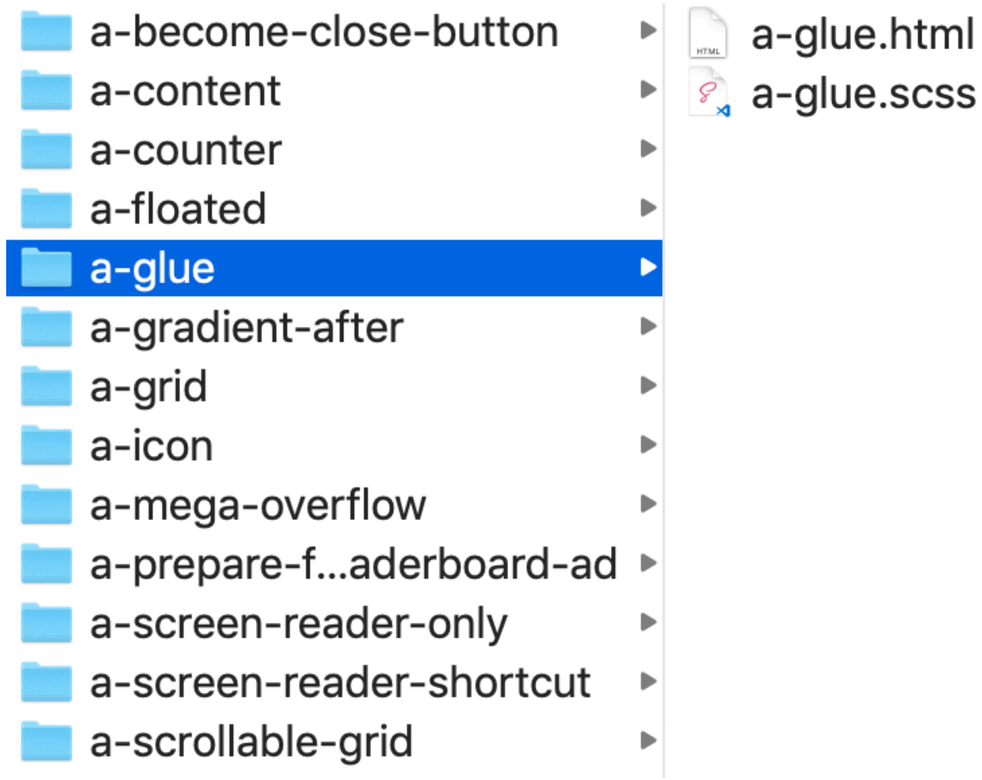
- 00-settings
- 01-generic
- 02-algorithms
- 03-utilities
- 04-js

- a-crop
- a-glue
- a-grid
- a-hover-dropup
- a-icon
- a-space-children
- a-unstyle-button
- a-unstyle-link
- a-unstyle-list
- a-wrapper
- README.md

mono-repo

Larva 1.0.0-alpha

Lara Schenck @laras126



minimum HTML for documentation

algorithm

Lara Schenck @laras126

```
.relative-parent {
    position: relative;
}

.child-stuck-to-bottom… {
    position: absolute;
    right: 0;
    bottom: 0;
}
```

Used 15x in our last project!

```
.pmc-a-glue-parent {
    position: relative;
}

.pmc-a-glue {
    // Fallback is top left for IE11.
    top: 0;
    left: 0;

    position: absolute;
    z-index: $z-index-middle-bottom;
    top: var( --a-glue-top, initial );
    bottom: var( --a-glue-bottom, initial );
    right: var( --a-glue-right, initial );
    left: var( --a-glue-left, initial );
}

.pmc-a-glue--r-0 {
    --a-glue-right: 0;
}
```

And mostly not by me!

Lara Schenck @laras126

Deadline Patterns

0 Overview
1 Settings
2 Tools
3 Generic
4 Elements
5 Components
6 Objects
7 Algorithms

7.1 Become Close Button
7.2 Content
7.3 Glue
7.4 Grids
7.4.1 Grid Generator
7.4.2 Archive Grid
7.4.3 Article Grid
7.4.4 Scrollable Grid
7.4.5 Sidebar Grid
7.5 Icon
7.6 Mega Overflow
7.7 Screen Reader Only
7.8 Screen Reader Shortcut
7.9 Social Color
7.10 Space Children
7.11 Stacking Context
7.12 Sticky
7.13 Story Arc Item Border

Section 7.10

Space Children

The Space Children algorithm applies a space between the direct children of the element it is applied to along with a wrapping flex layout. It uses the experimental row-gap and column-gap properties, and provides a margin fallback for older browsers.

The spacer value is handled with a custom property called `--a-space-children-spacer`.

Examples

.a-space-children-horizontal.a-space-children--050 Space children horiztonally with a gap of 0.5rem.

item 1 item 2 item 3 item 4 item 5

.a-space-children-vertical.a-space-children--1 Update the `--a-space-children-spacer` custom property to `$spacer-1` and set the flex direction to column.

item 1

item 2

item 3

item 4

item 5

Lara Schenck @laras126

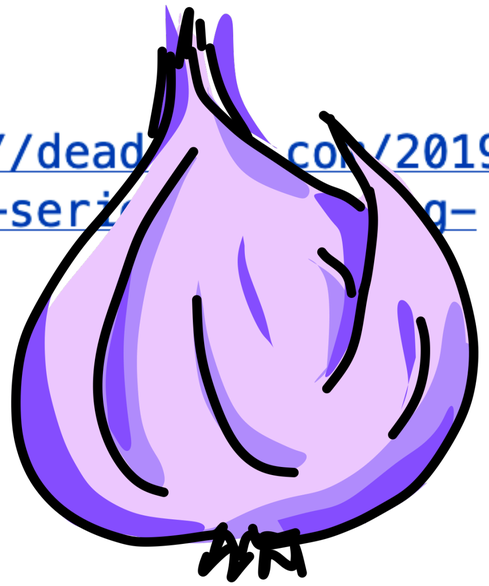
```
.space-content > * + * {
    margin-top: 1rem;
}
```

```
.pmc-a-space-children-horizontal > * + * {
    margin-left: $spacer-050; // Fallback.
    margin-left: var( --a-space-children-spacer );
}

@supports( column-gap: 1rem ) {

    .pmc-a-space-children-horizontal {
        column-gap: var( --a-space-children-spacer );
    }

    .pmc-a-space-children-horizontal > * {
        margin-left: unset;
    }
}
```

Lara Schenck @laras126

```
▼ <aside class="article-sidebar // pmc-a-grid-item a-space-children-vertical a-space-
  children--2">
  ▶ <div id="adm-widget-dl-ros-300x600" class="admz">⋯</div>
  ▼ <section class="tv-features-widget // pmc-u-padding-t-1 pmc-u-padding-b-2 pmc-u-padd
    b-1@mobile-max pmc-u-margin-b-2">
      <h2 class="c-heading pmc-u-font-size-28 pmc-u-font-weight-normal pmc-u…r-b-2 u-boro
      color-grey-medium-light u-letter-spacing-0025">Hot TV Topics</h2>
    ▼ <div class="a-space-children-vertical a-space-children--1">
      ▼ <div class="o-tease "> flex
        ▶ <a class="u-display-contents a-unstyle-link" href="https://dead  .com/2019/05
          /summer-premiere-dates-2019-streaming-cable-broadcast-new-seri  g-
          1202509777/">⋯</a> contents
        </div>
      ▶ <div class="o-tease ">⋯</div> flex
      ▶ <div class="o-tease ">⋯</div> flex
      </div>
    </section>
```

onion →



Lara Schenck @laras126

More from this Story Arc

Developing Box Office News

April 10, 2019

'Dumbo' Doesn't Soar With $45M Opening; Matthew McConaughey At Bottom With $1.8M 'Beach Bum' – Sunday Update

March 26, 2019

Josh Brolin Joins Denis Villenueve's 'Dune' At Legendary

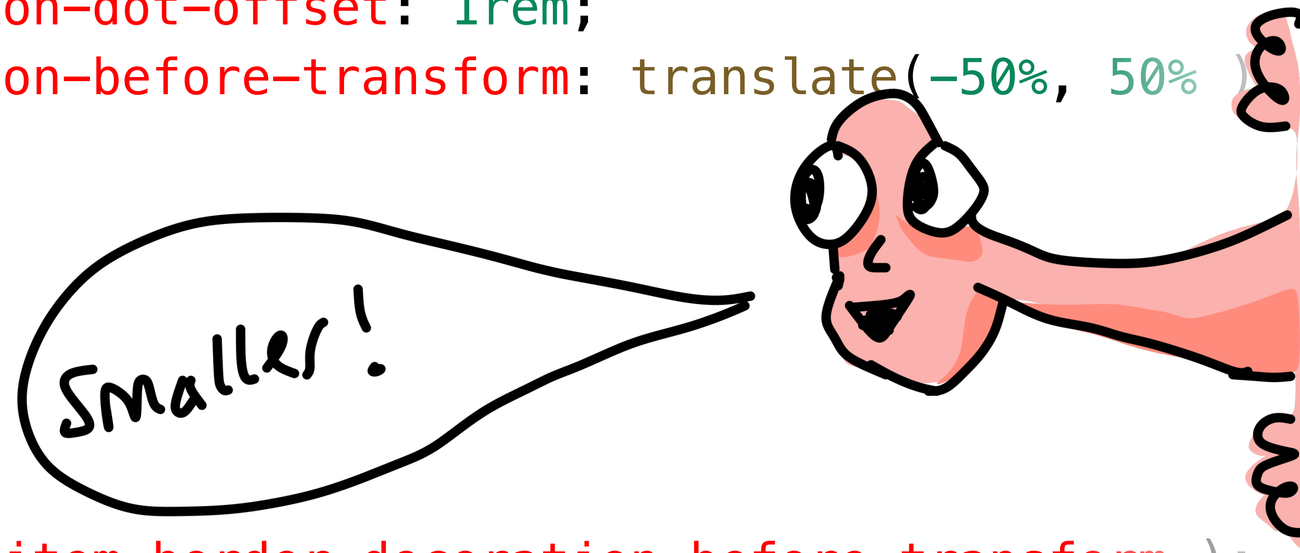
March 26, 2019

Focus Boards Carey Mulligan Thriller 'Promising Young Woman'

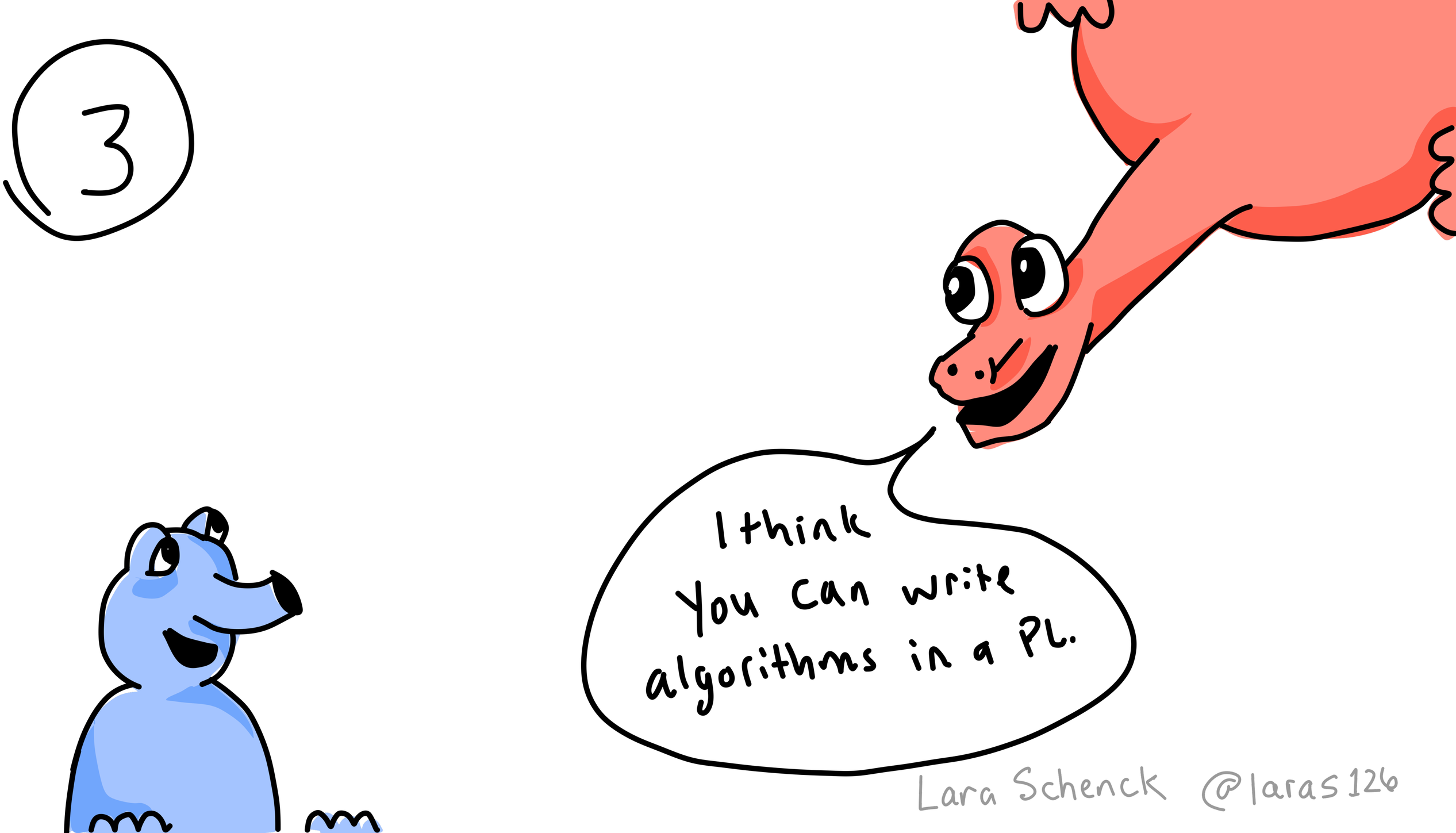
View All Story Arc

Lara Schenck @laras126

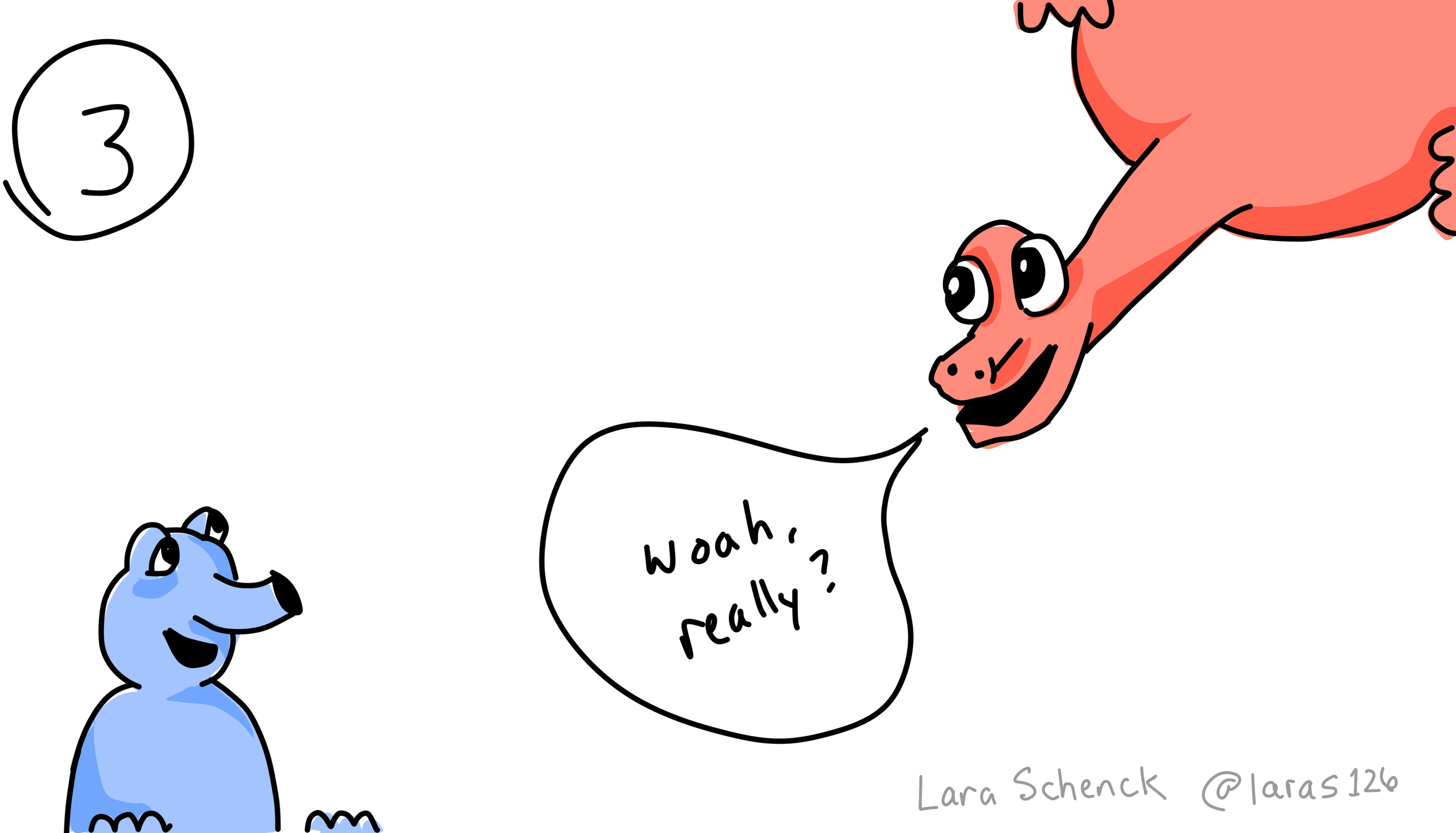
```sass
.a-story-arc-item-border-decoration {
    --a-story-arc-item-border-decoration-dot-offset: 1rem;
    --a-story-arc-item-border-decoration-before-transform: translate(-50%, 50% )

    &::before {
        content: '';
        position: absolute;
        top: 0;
        left: 0;
        transform: var( --a-story-arc-item-border-decoration-before-transform );
        width: rem(10);
        height: rem(10);
        background-color: map-get( $semantic-color-list, brand-red );
        border-radius: 50%;
        box-shadow: 0px 0px 0px 3px map-get( $semantic-color-list, brand-red-ligh
        0px 0px 0px 6px map-get( $semantic-color-list, brand-red-lightest );
```

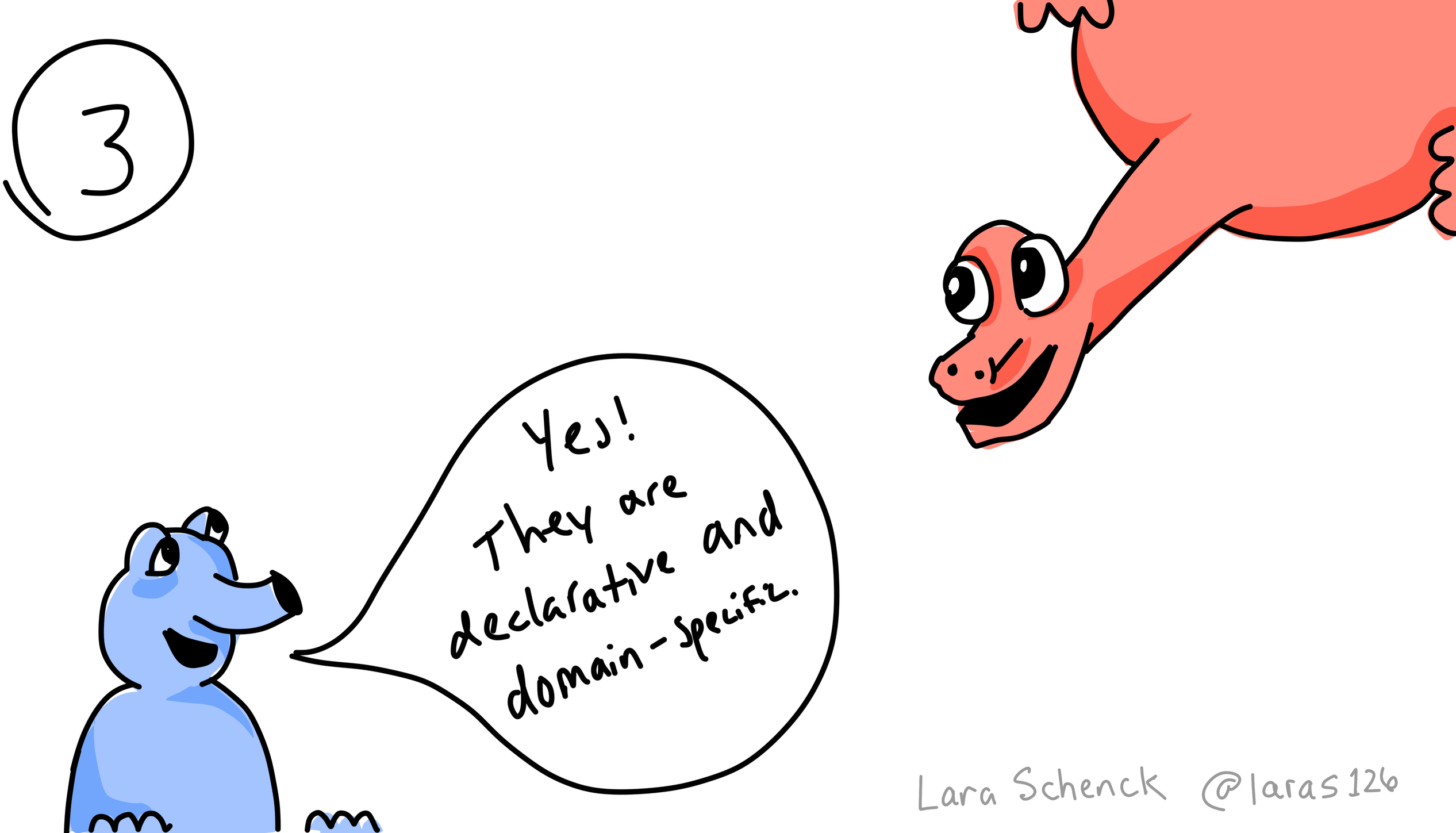


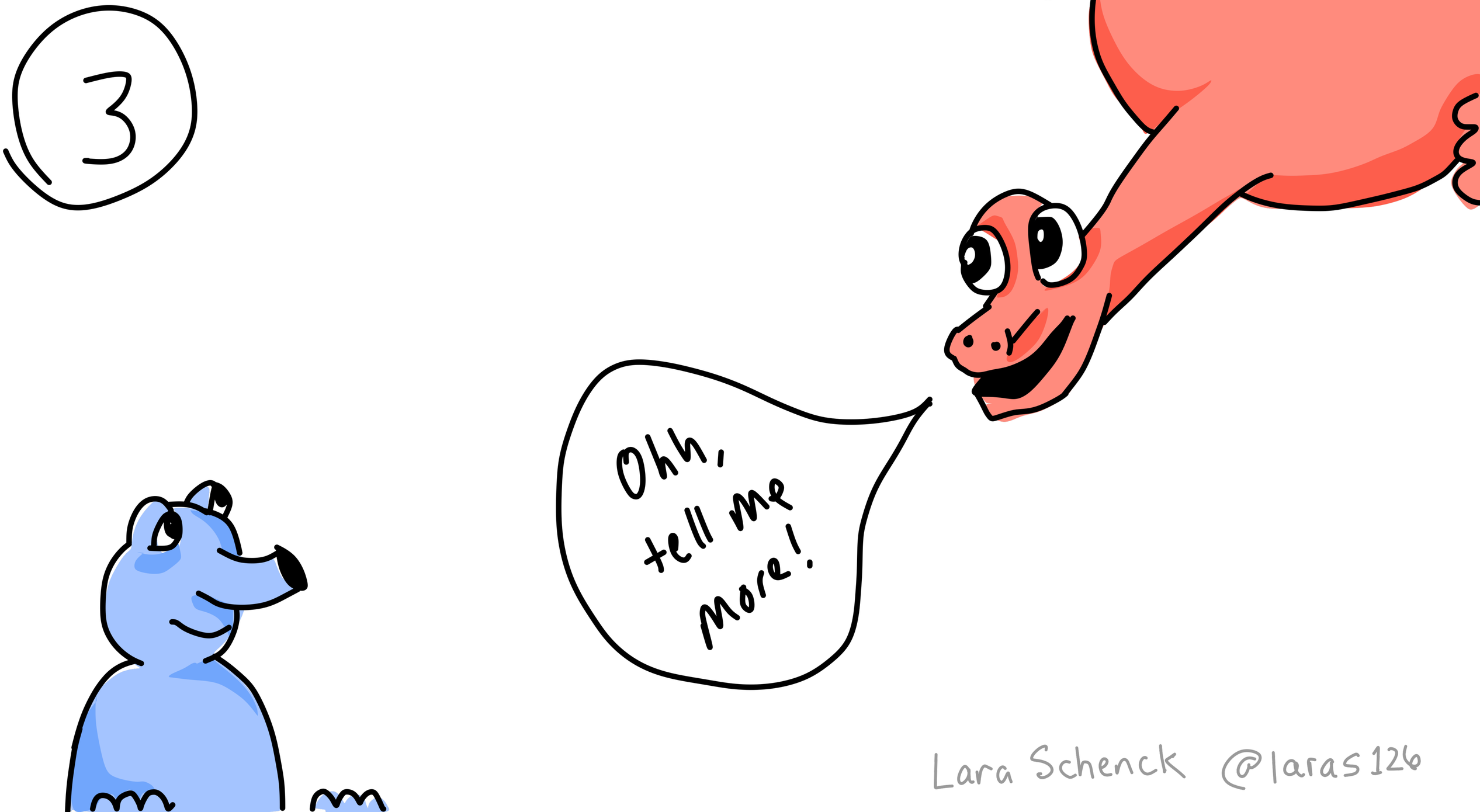
Lara Schenck @laras126

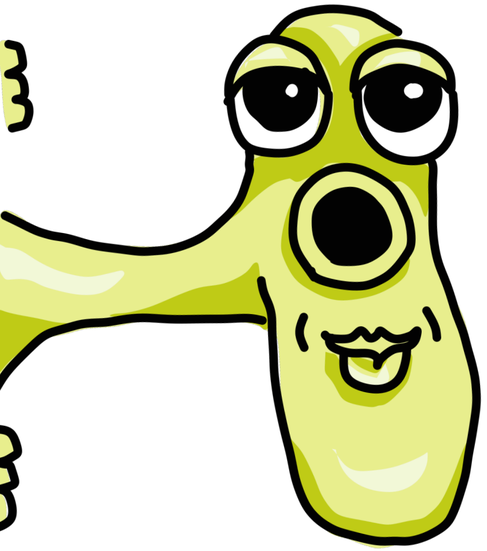

3
I think
You can write
algorithms in a PL.
Lara Schenck @laras126

3
You can write CSS algorithms!
Lara Schenck @laras126

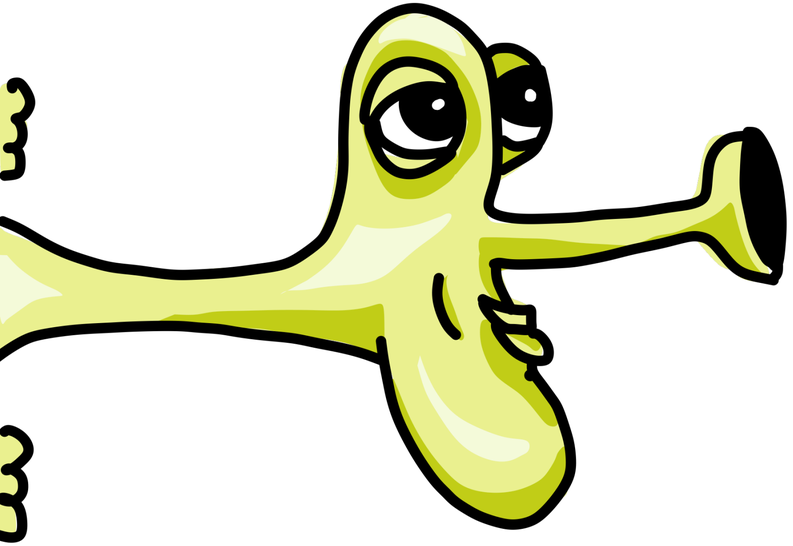

3
woah, really?
Lara Schenck @laras126


3
Yes!
They are declarative and domain-specific.
Lara Schenck @laras126


3
Ohh, tell me more!
Lara Schenck @laras126



Lara Schenck @laras126



Conclusion

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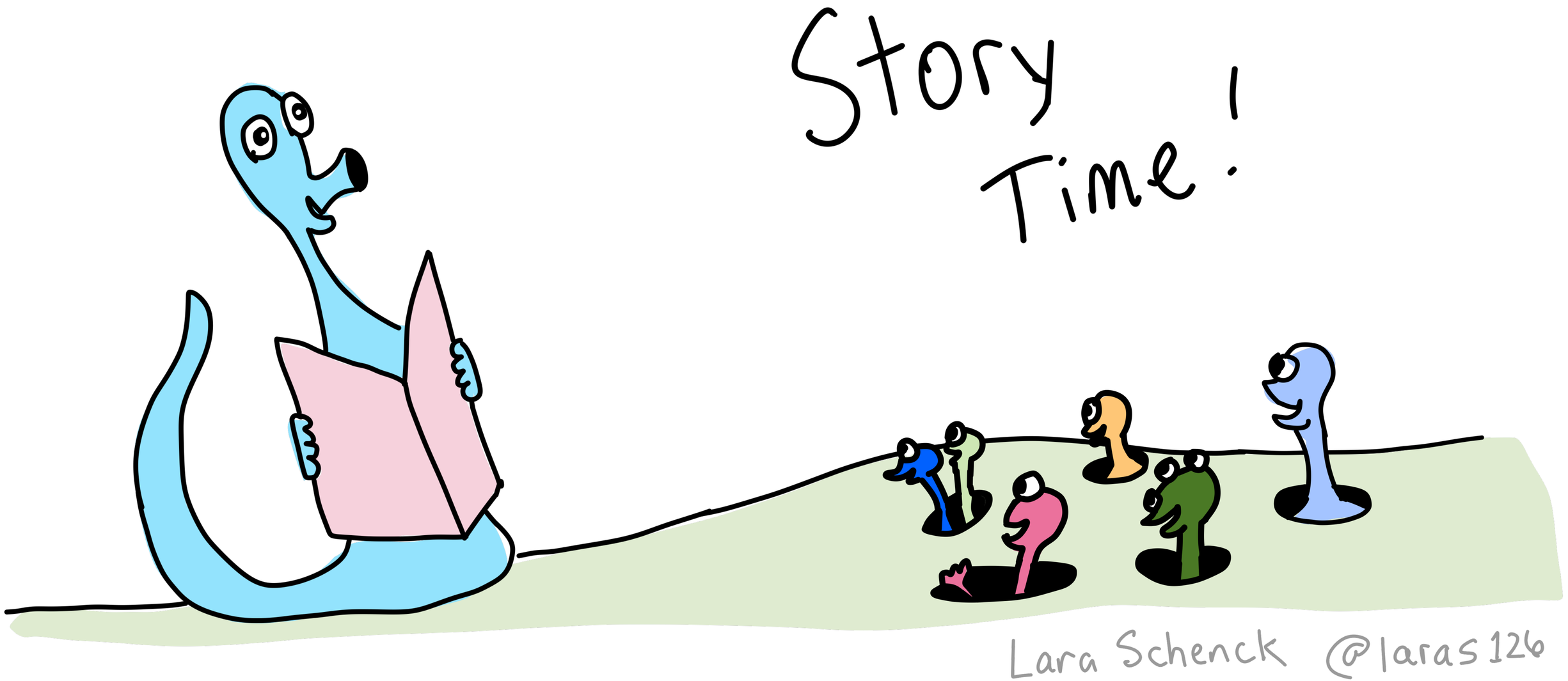
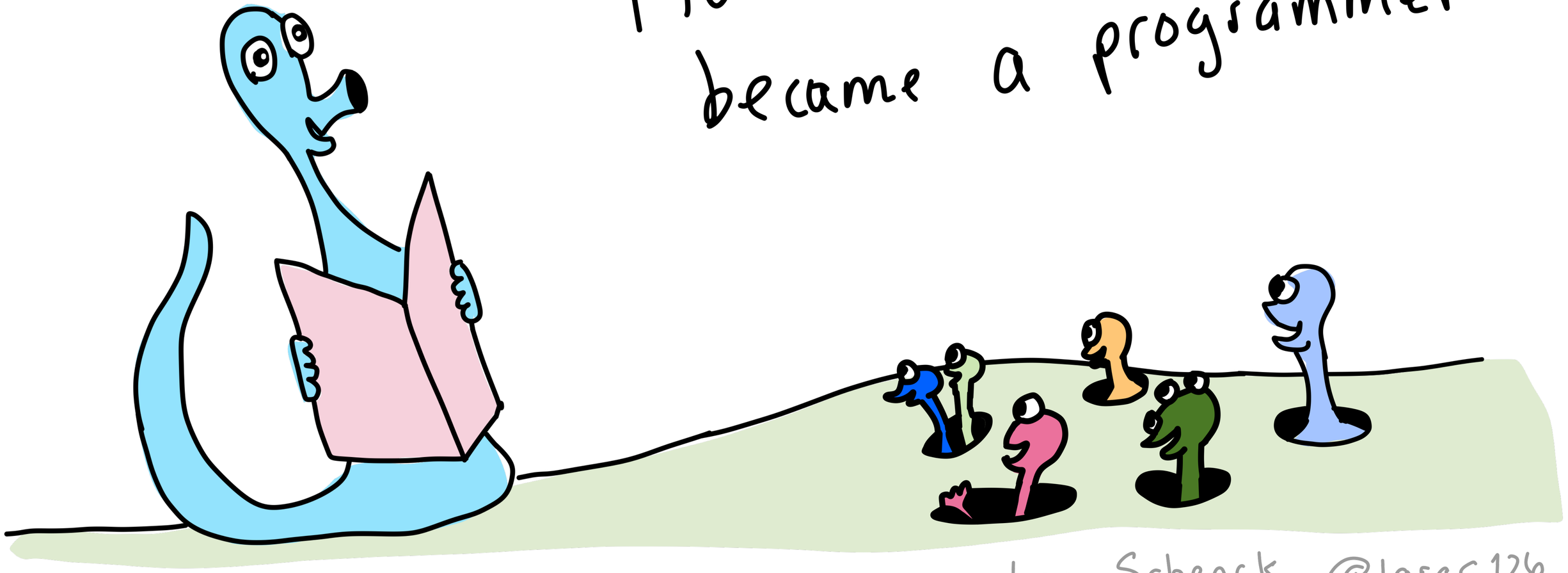
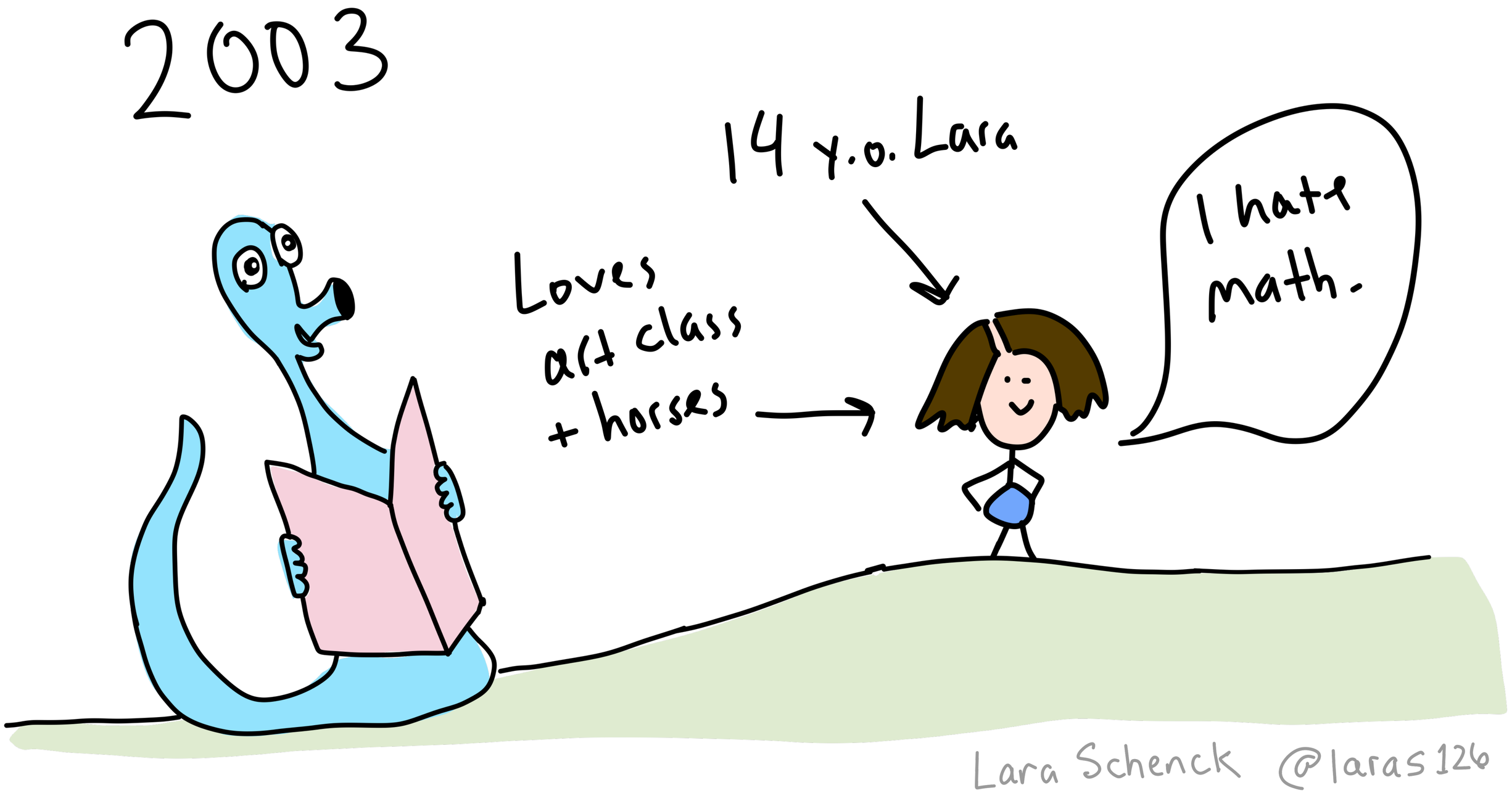
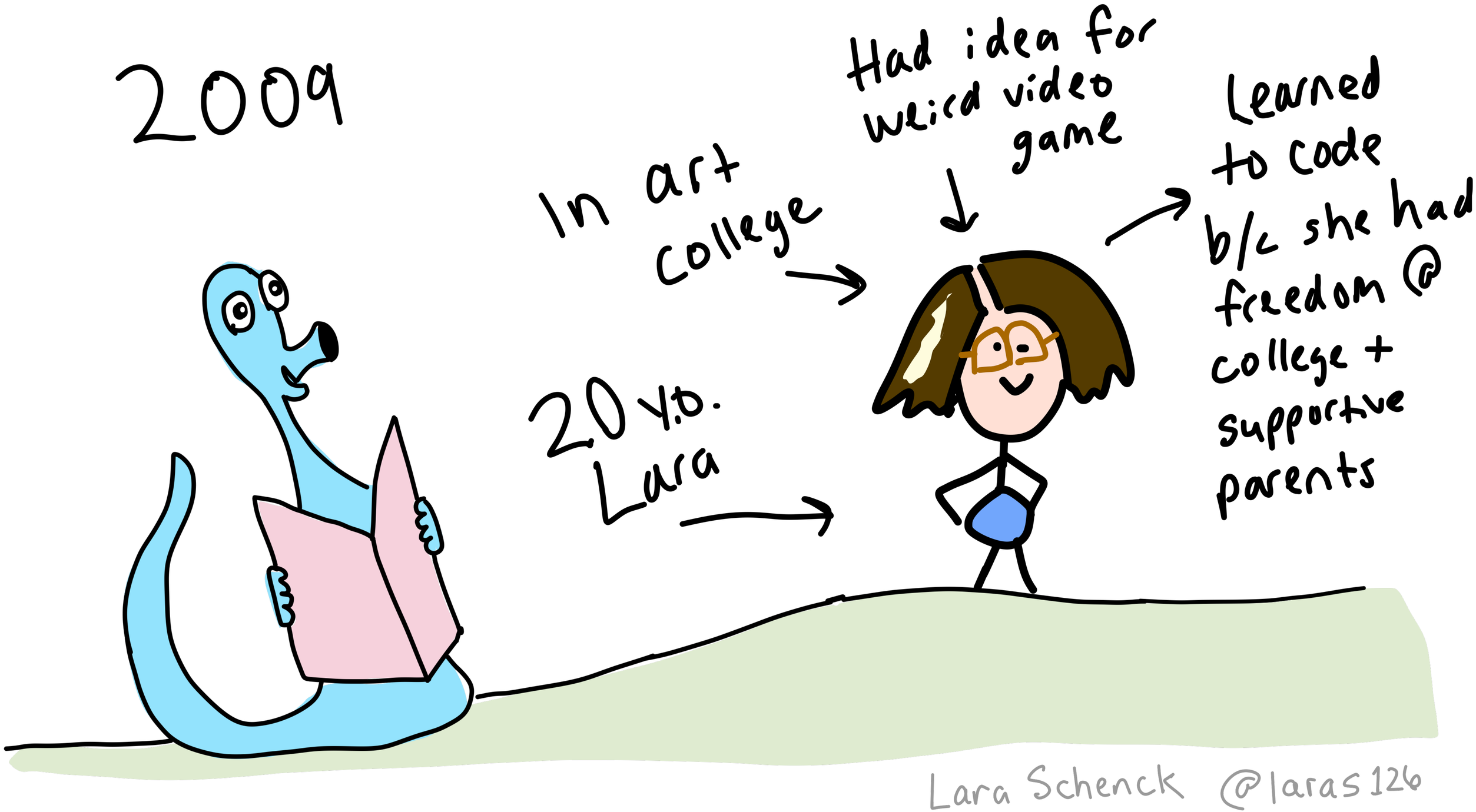

Story Time!
Lara Schenck @laras126

How the math hater became a programmer

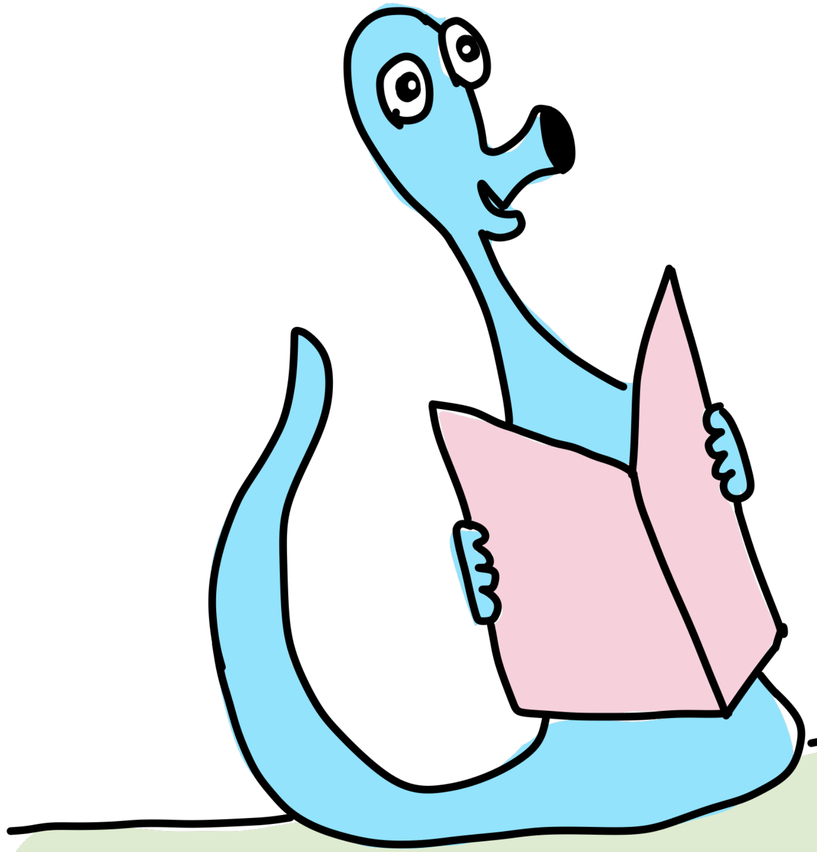


Lara Schenck @laras126


2003
14 y.o. Lara
Loves art class + horses
I hate math.
Lara Schenck @laras126


2009
In art college
Had idea for weird video game
Learned to code b/c she had freedom @ college + supportive parents
20 y.o. Lara
Lara Schenck @laras126

2015



CSS-TRICKS

Blog Videos Almanac Snippets Forums Jobs Lodge

Tales of a Non-Unicorn: A Story About The Trouble with Job Titles and Descriptions

Published May 11, 2015 by Chris Coyier

> The following is a guest post by Lara Schenck. I heard her tell this story at a CodePen Meetup in New York. I saw an awful lot of nodding heads. It's a fact that there is some trouble in this industry with job titles, descriptions, interviewing, and that whole rigmarole. Check out this story from Lara, then follow her, as I'm sure this isn't the end of this discussion.

I've been self-employed for the past three years. Though I did spend my first year out of college [illegible] startup, I've never [illegible] to be [illegible]

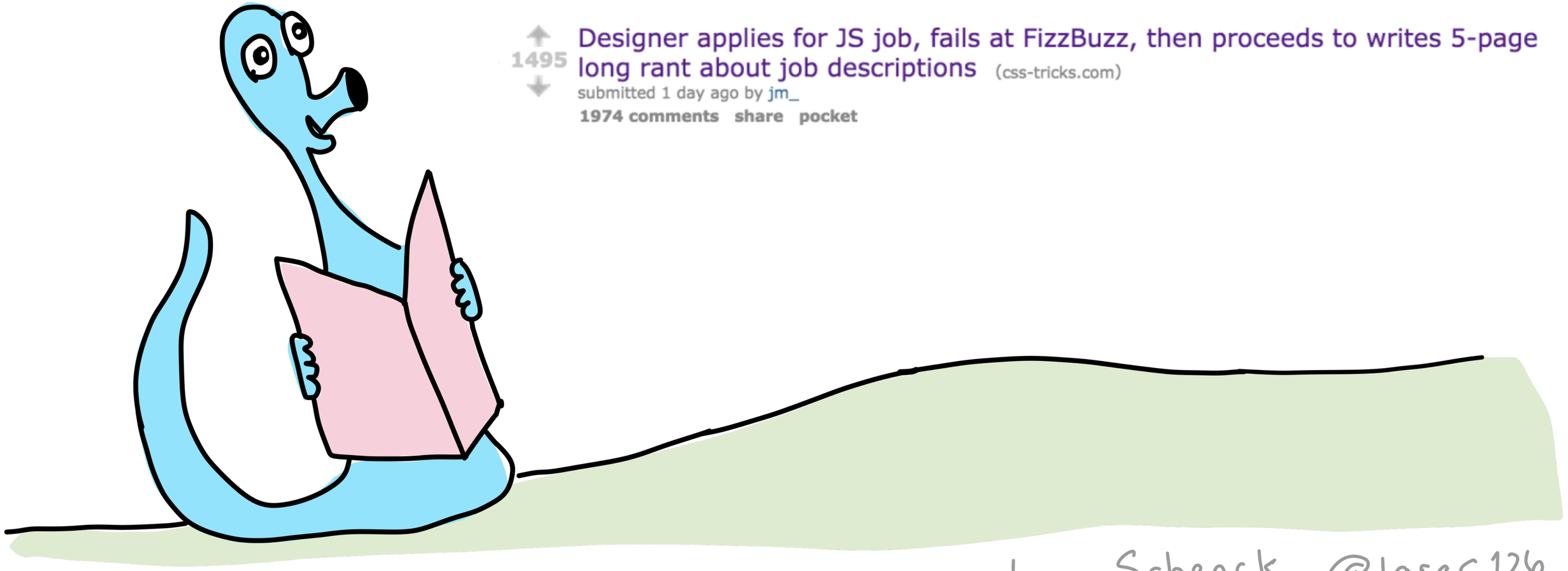
The Lodge is a member login only area with access to video training on how to build websites from scratch using the best modern tools.

Sign up!

You get an email from [illegible]

Lara Schenck @laras126

2015



1495

Designer applies for JS job, fails at FizzBuzz, then proceeds to writes 5-page long rant about job descriptions (css-tricks.com)

submitted 1 day ago by jm_

1974 comments **share** **pocket**

Lara Schenck @laras126

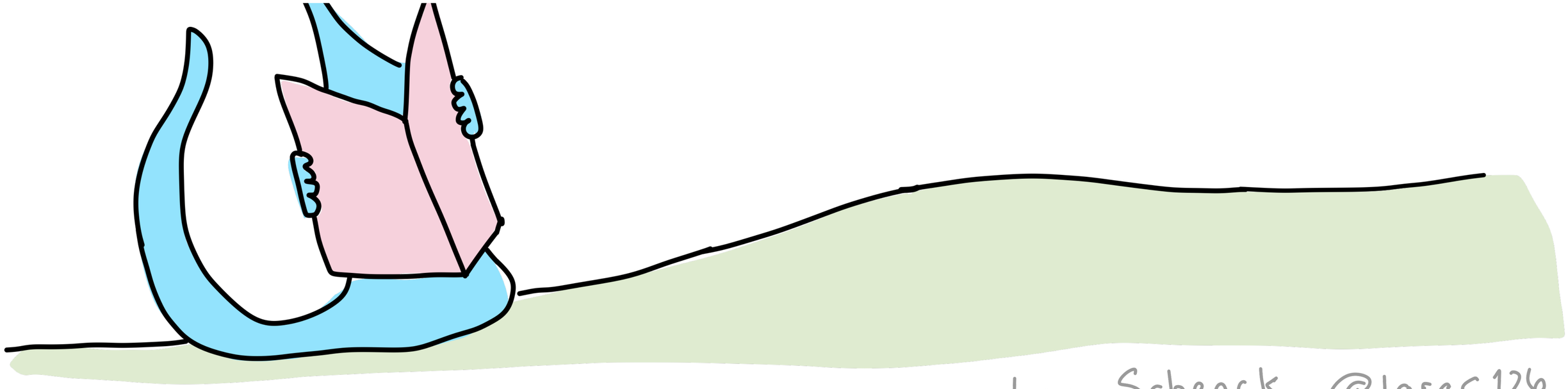
2015

1495

Designer applies for JS job, fails at FizzBuzz, then proceeds to writes 5-page long rant about job descriptions (css-tricks.com)

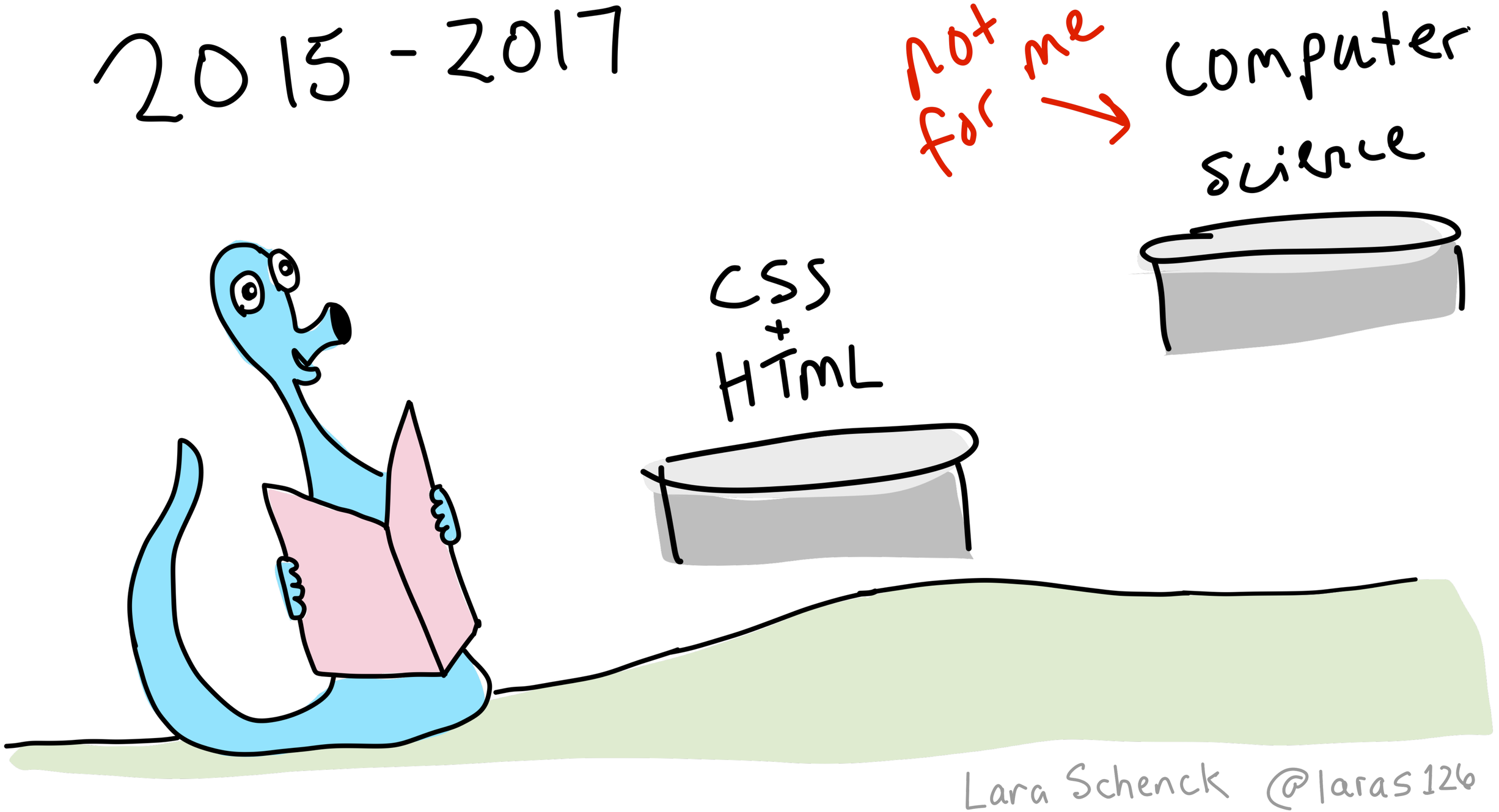
submitted 1 day ago by jm_

1974 comments share pocket

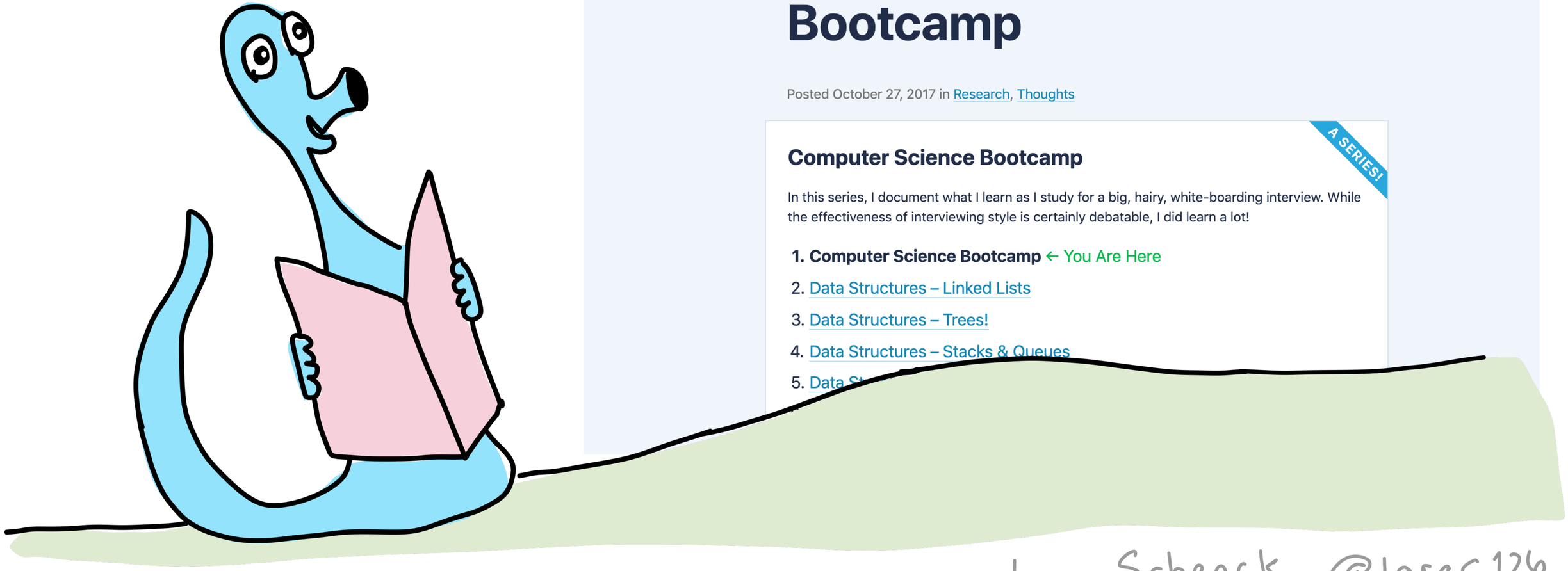


Lara Schenck @laras126

2015 - 2017
computer science
What I do
Lara Schenck @laras126


2015 - 2017
not for me
computer science
CSS + HTML
Lara Schenck @laras126

Late 2017



Lara Schenck | Blog | Monsters | About | Contact

Computer Science Bootcamp

Posted October 27, 2017 in Research, Thoughts

A SERIES!

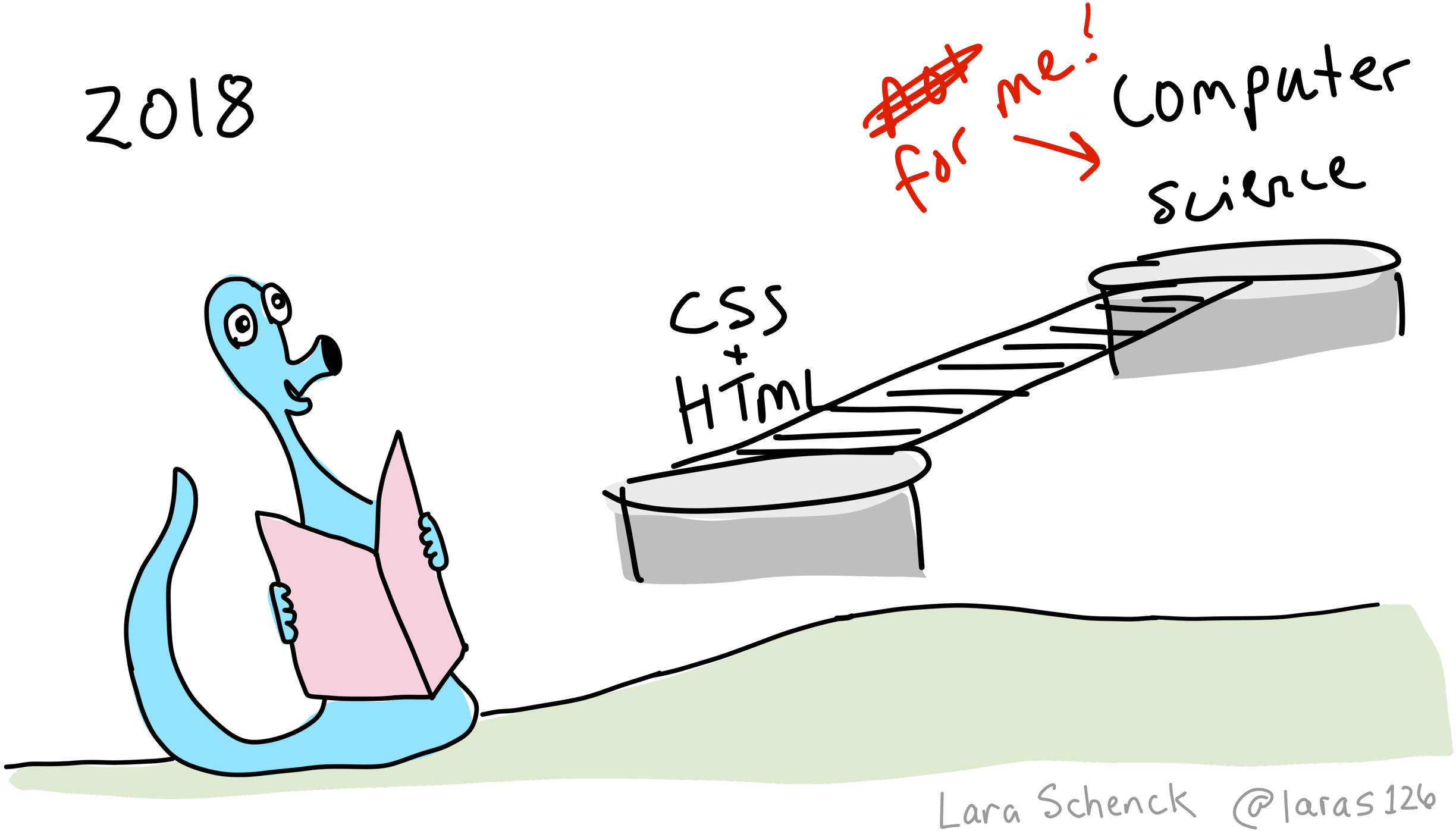
Computer Science Bootcamp

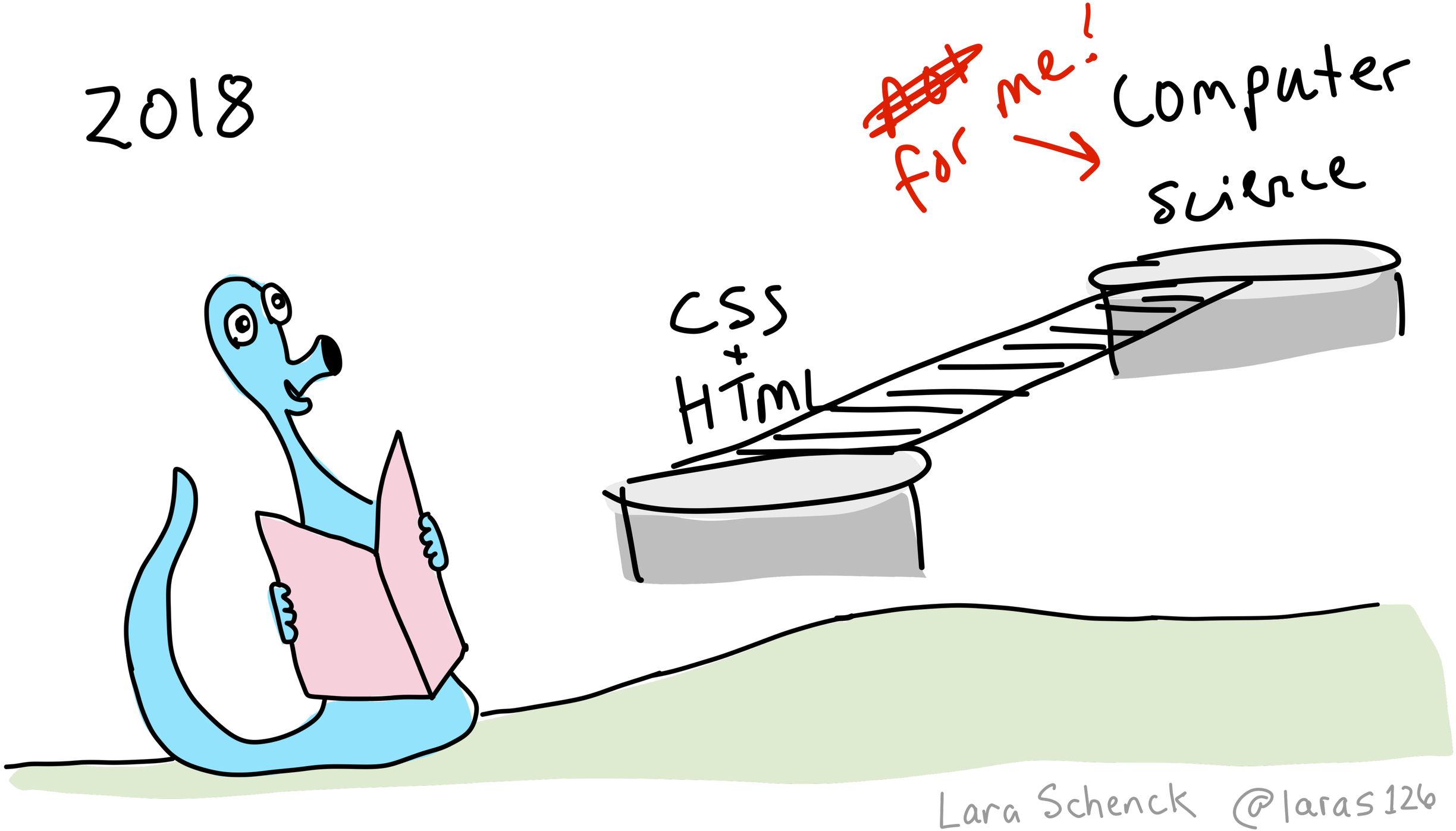
In this series, I document what I learn as I study for a big, hairy, white-boarding interview. While the effectiveness of interviewing style is certainly debatable, I did learn a lot!

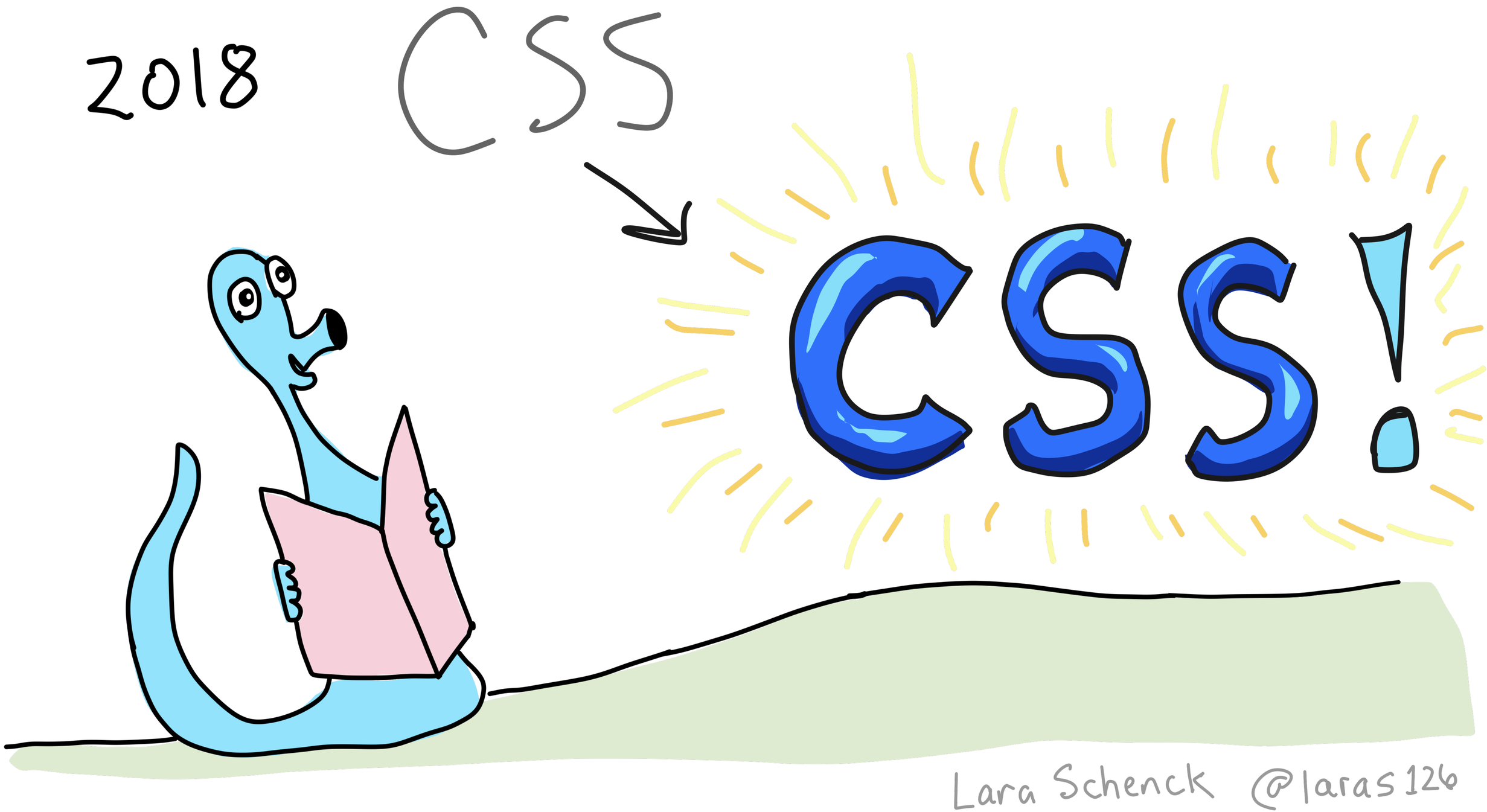
1. **Computer Science Bootcamp** ← You Are Here
2. Data Structures – Linked Lists
3. Data Structures – Trees!
4. Data Structures – Stacks & Queues
5. Data St

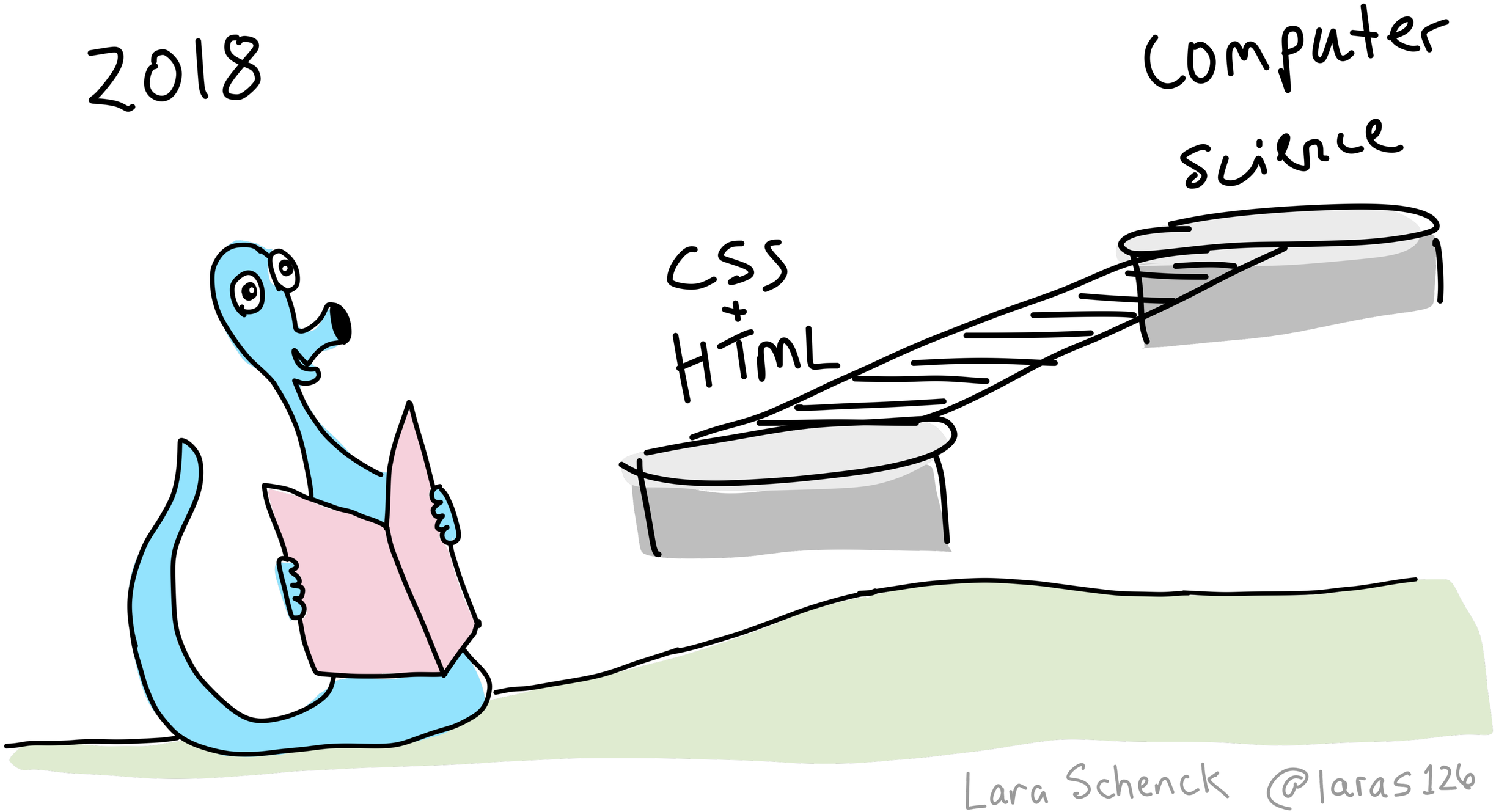
Lara Schenck @laras126

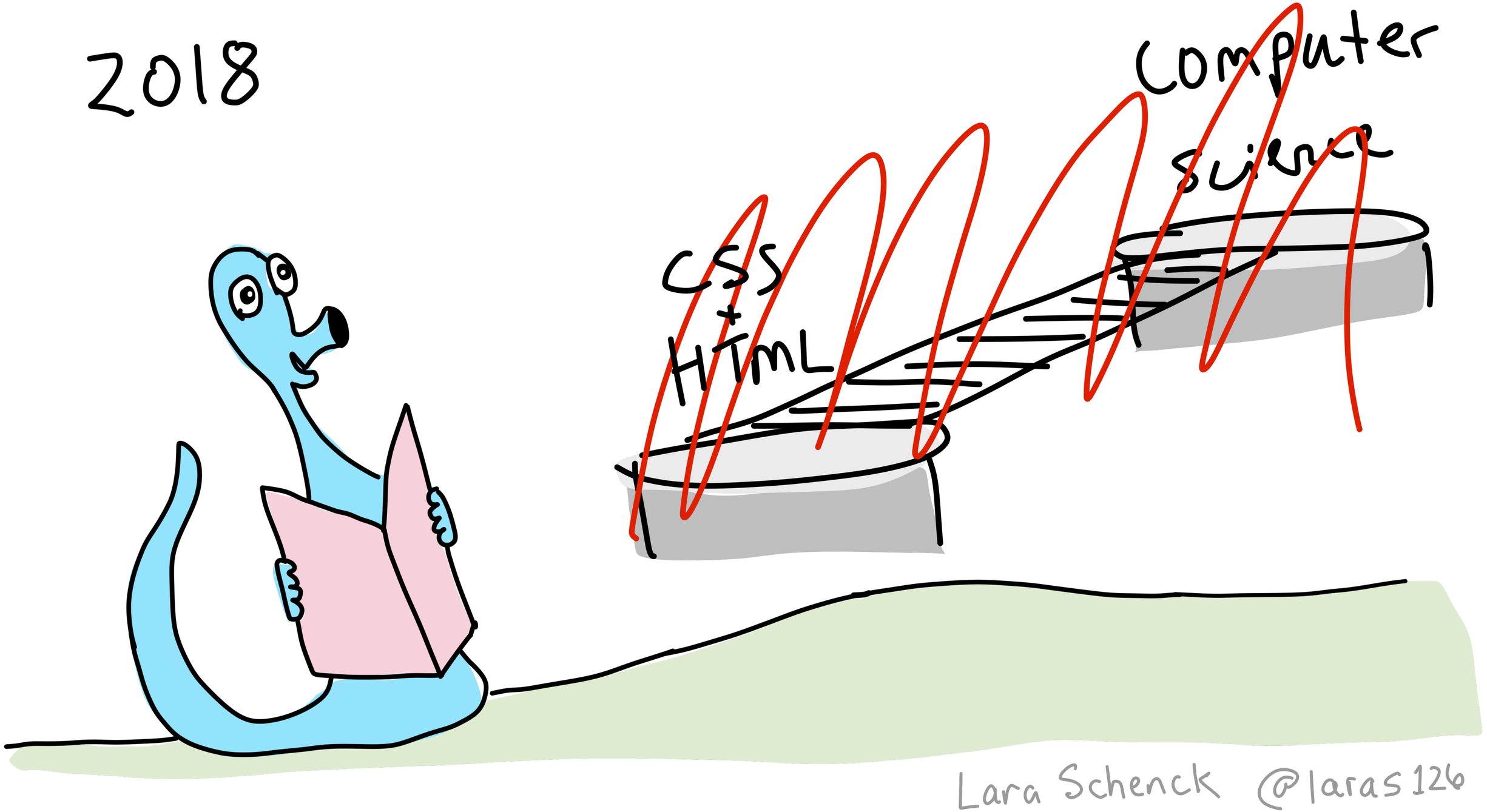
2018
~~for~~ for me!
computer science
CSS + HTML
Lara Schenck @laras126

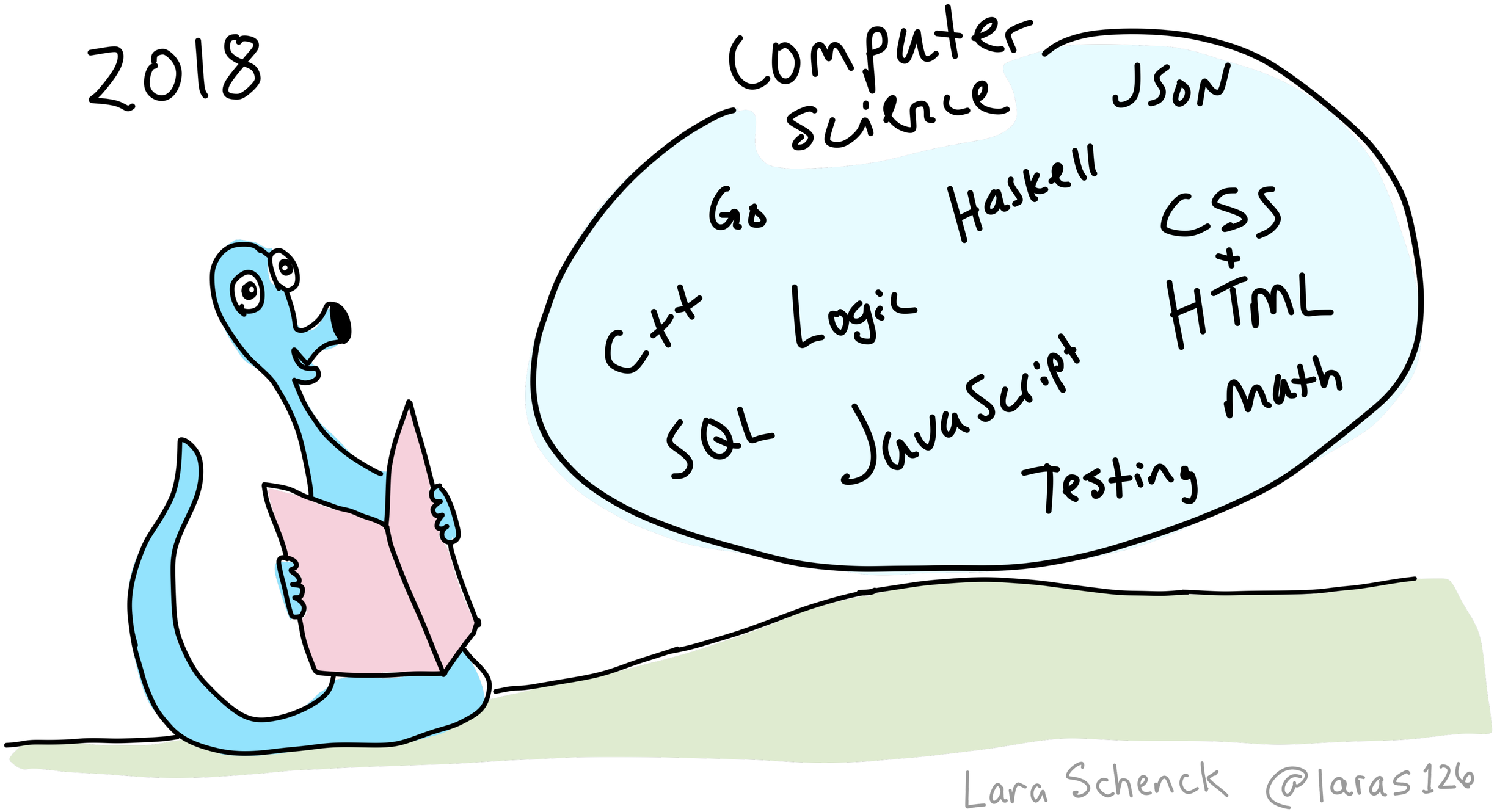

2018
~~for~~ for me!
computer science
CSS + HTML
Lara Schenck @laras126


2018
~~for~~ for me!
computer science
CSS + HTML
Lara Schenck @laras126


2018
CSS
CSS!
Lara Schenck @laras126


2018
CSS
+
HTML
Computer
science
Lara Schenck @laras126


2018
CSS + HTML
Computer science
Lara Schenck @laras126

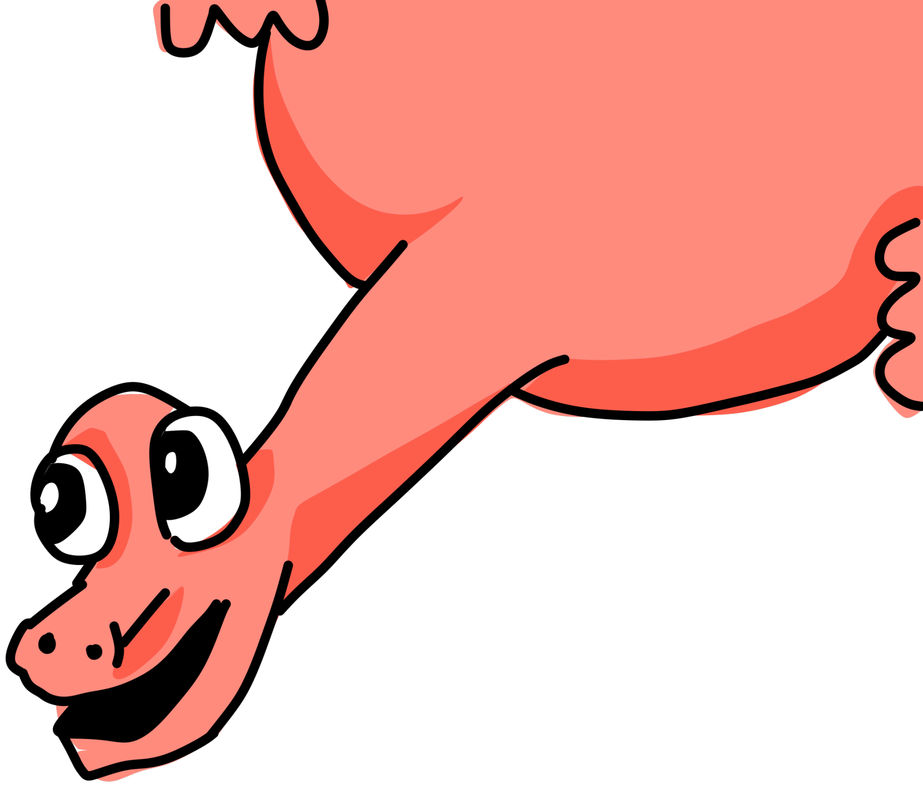

2018
Computer science
JSON
Go
Haskell
CSS + HTML
C++
Logic
SQL
JavaScript
math
Testing
Lara Schenck @laras126

```
div {
    counter-reset: fizzbuzz;
    counter-increment: fizzbuzz;
}

div::before {
    content: counter(fizzbuzz);
}

div:nth-child(3n)::before {
    content: 'Fizz';
}

div:nth-child(5n)::after {
    content: 'Buzz';
}
```



Full FizzBuzz in CSS/HTML CodePen

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2019

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1s _____ a

_____ ?

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Is CSS a programming language?

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Is depression a treatable illness?

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Is non-binary a gender?

Lara Schenck @laras126

May 2019

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@laras126

Is CSS a programming language?

34% Yes OF COURSE

53% No

13% I'm not sure

5,324 votes • Final results

A culture smell

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What is going on?

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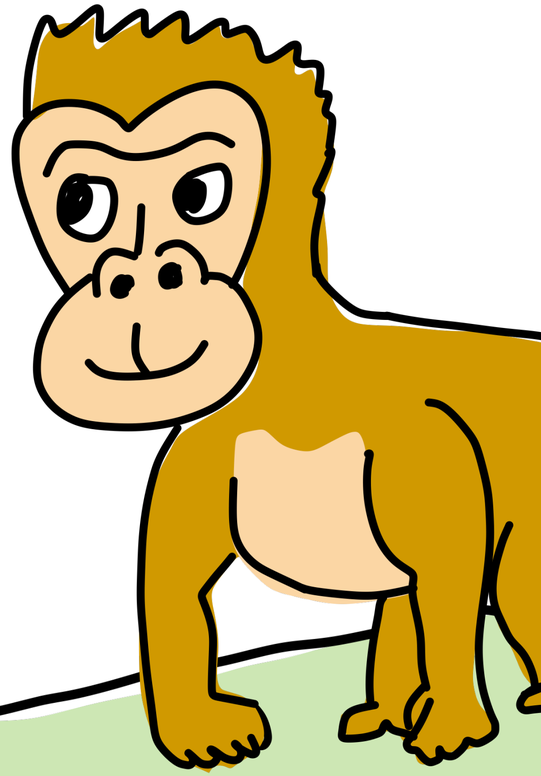
"there's an 800lb gorilla in the room and it's called testosterone"

- Dick, from my co-working space



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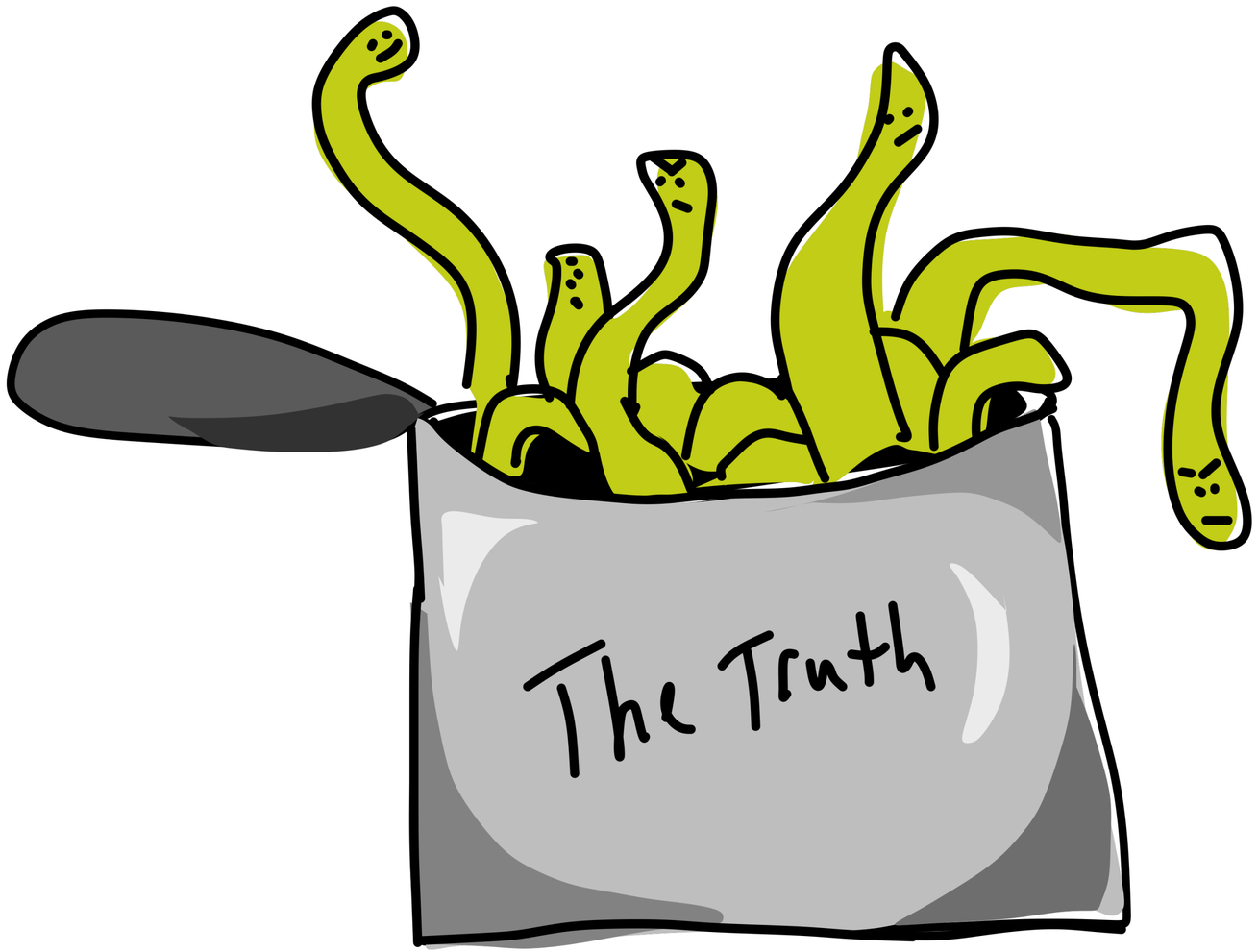

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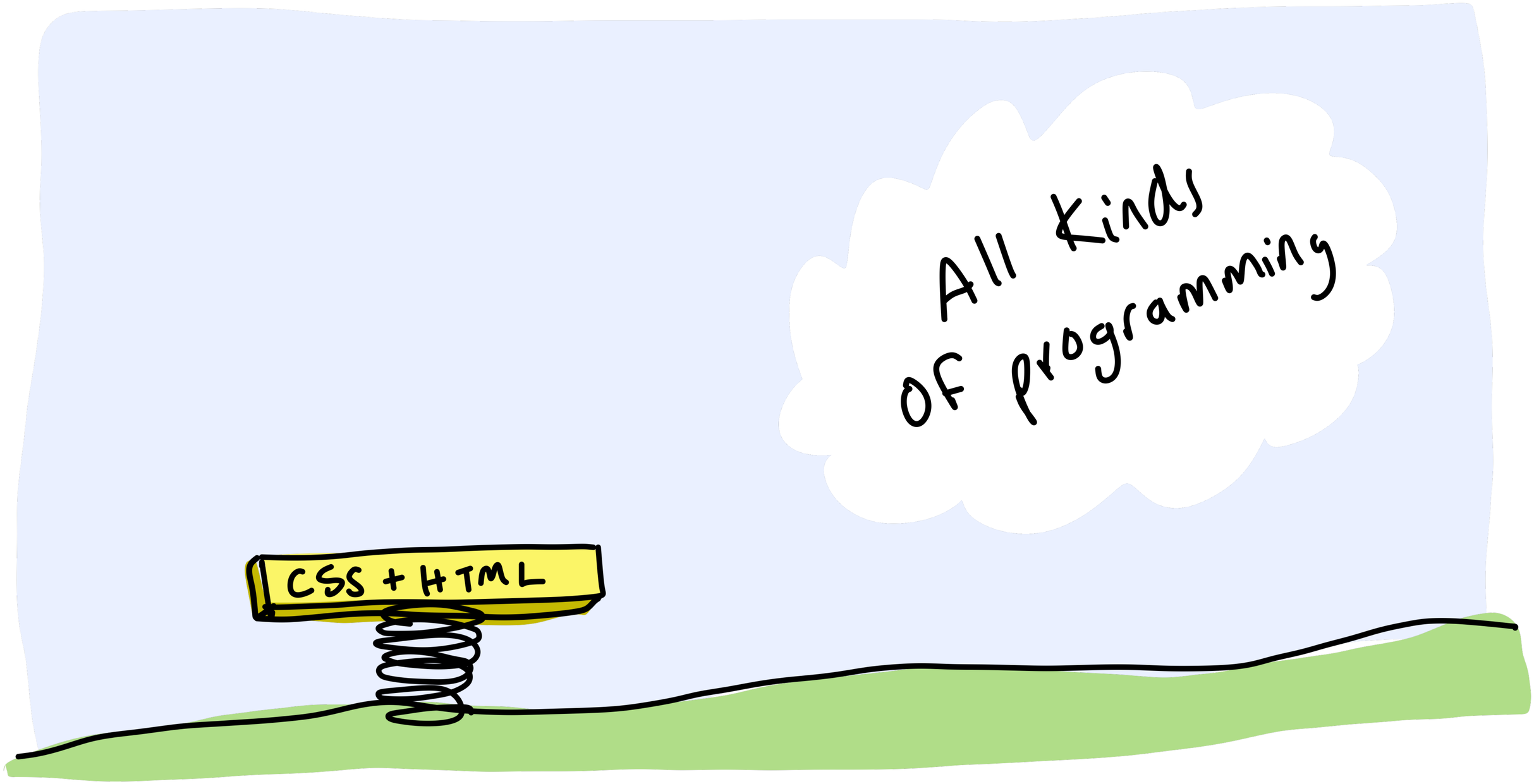

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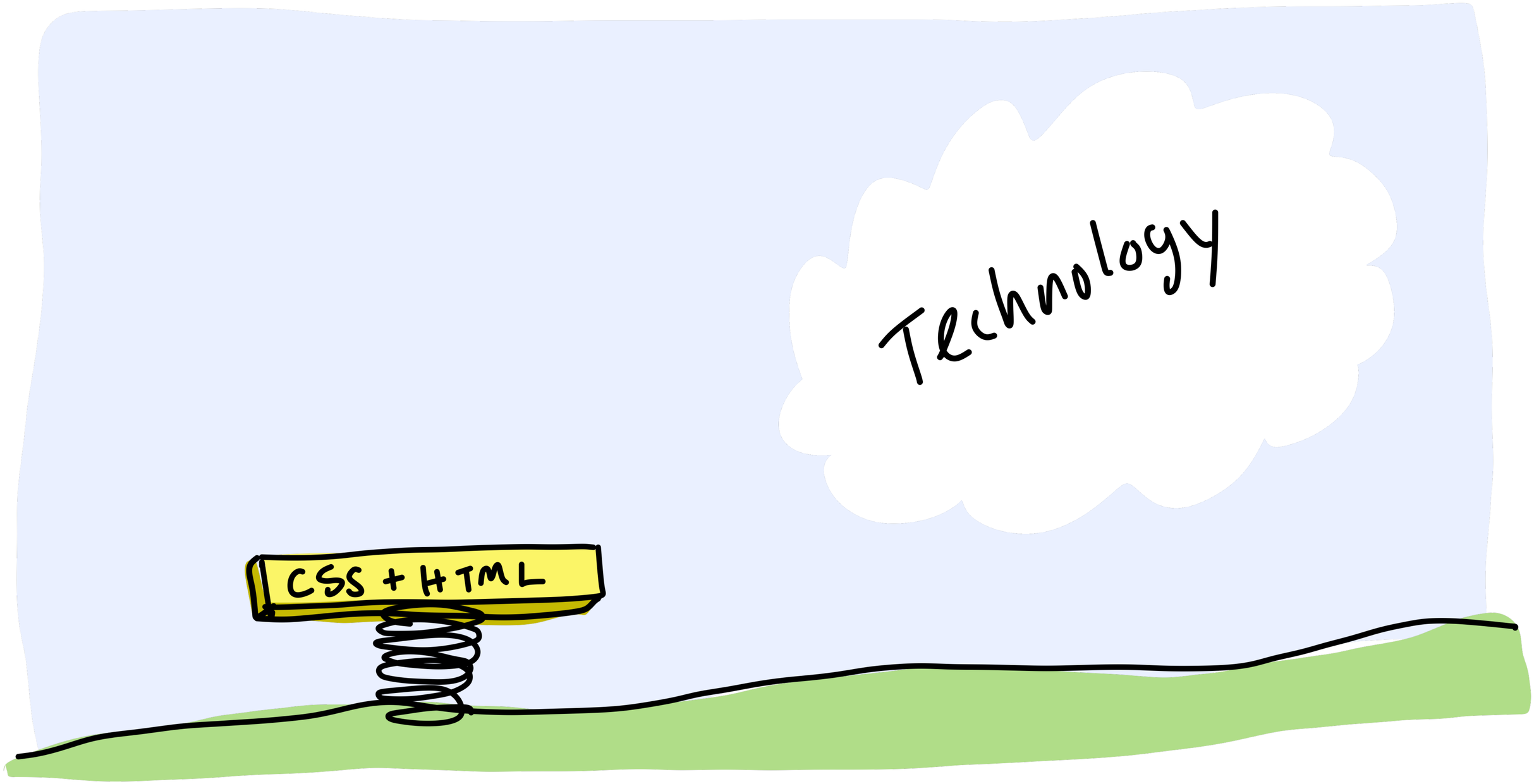

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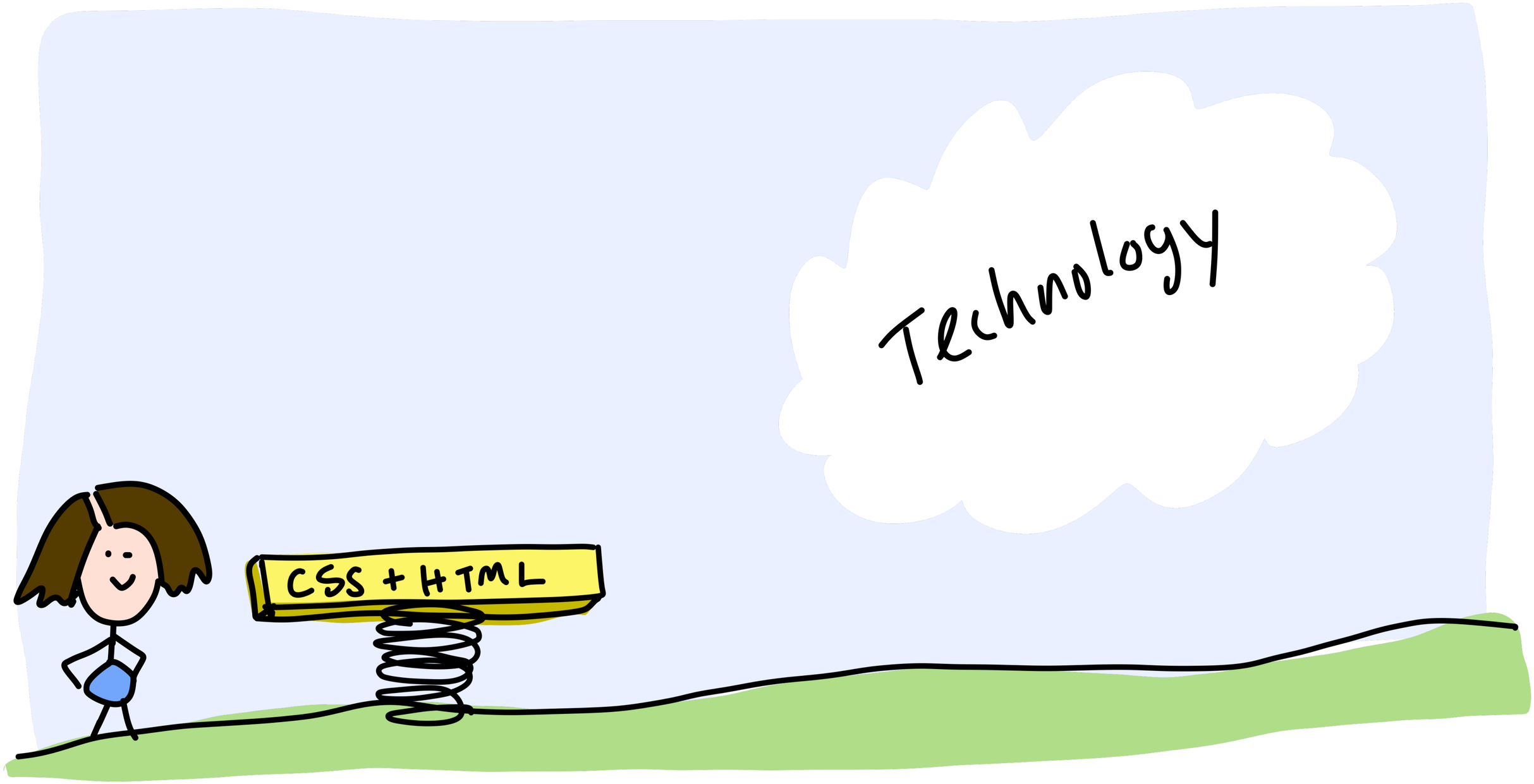

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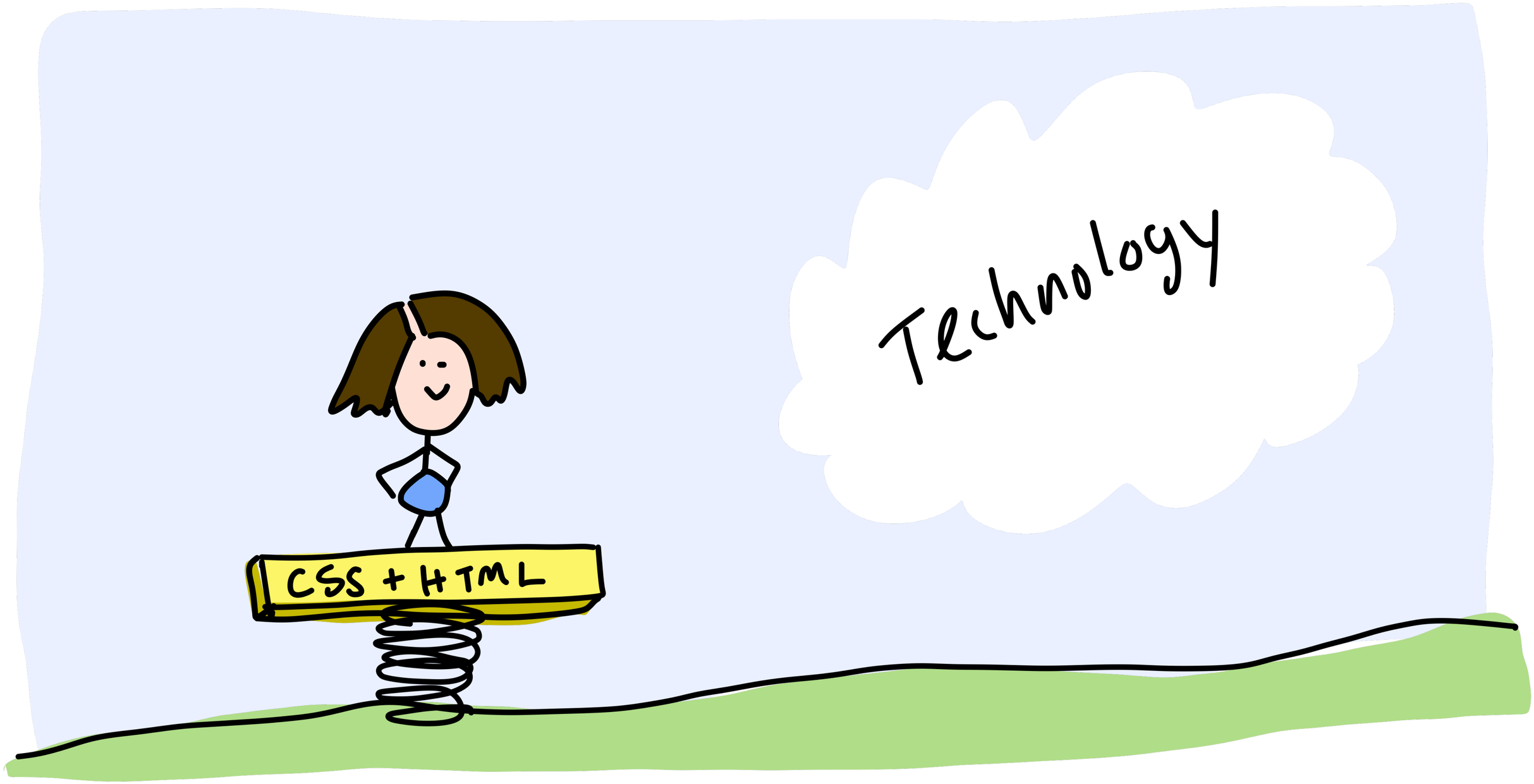

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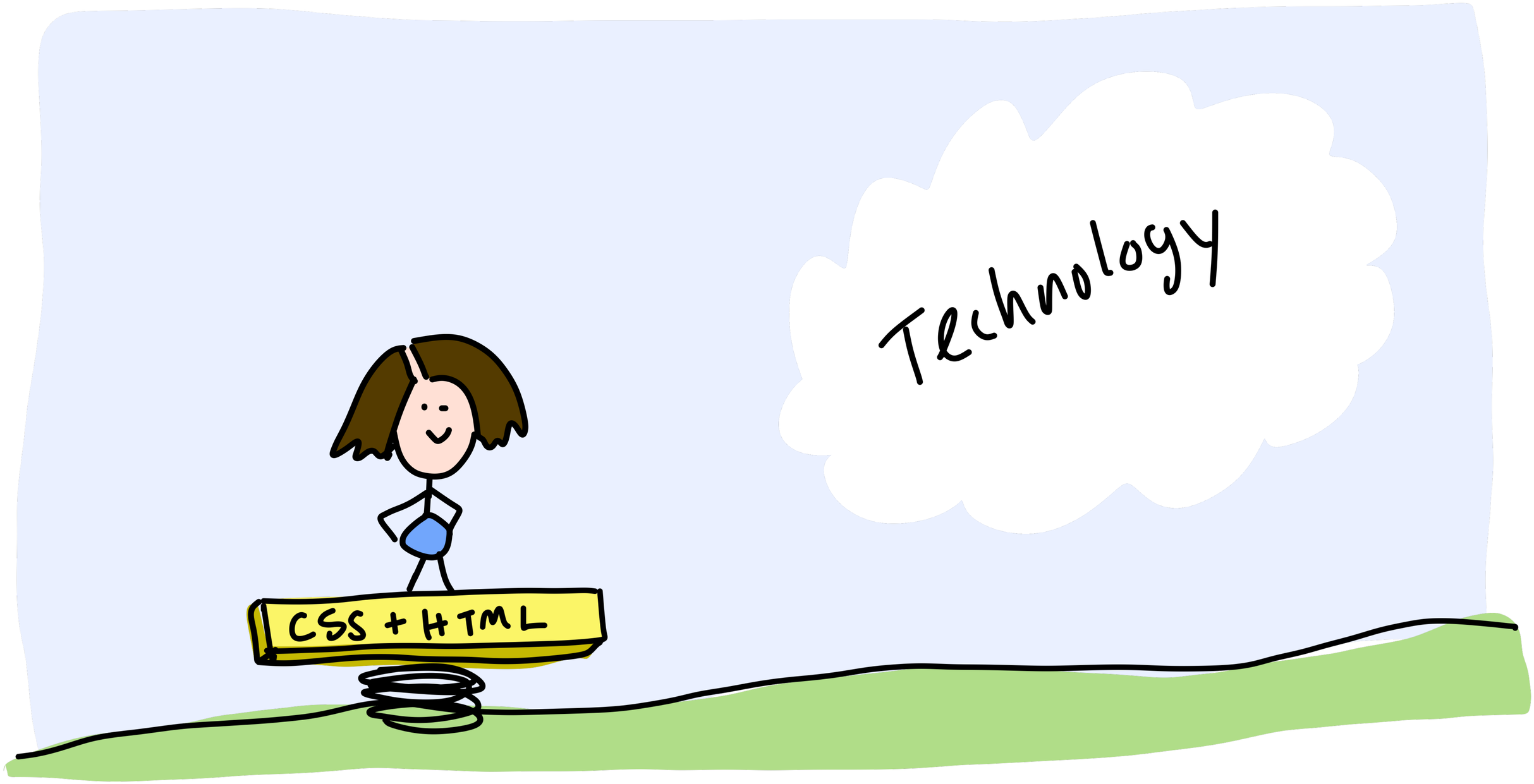

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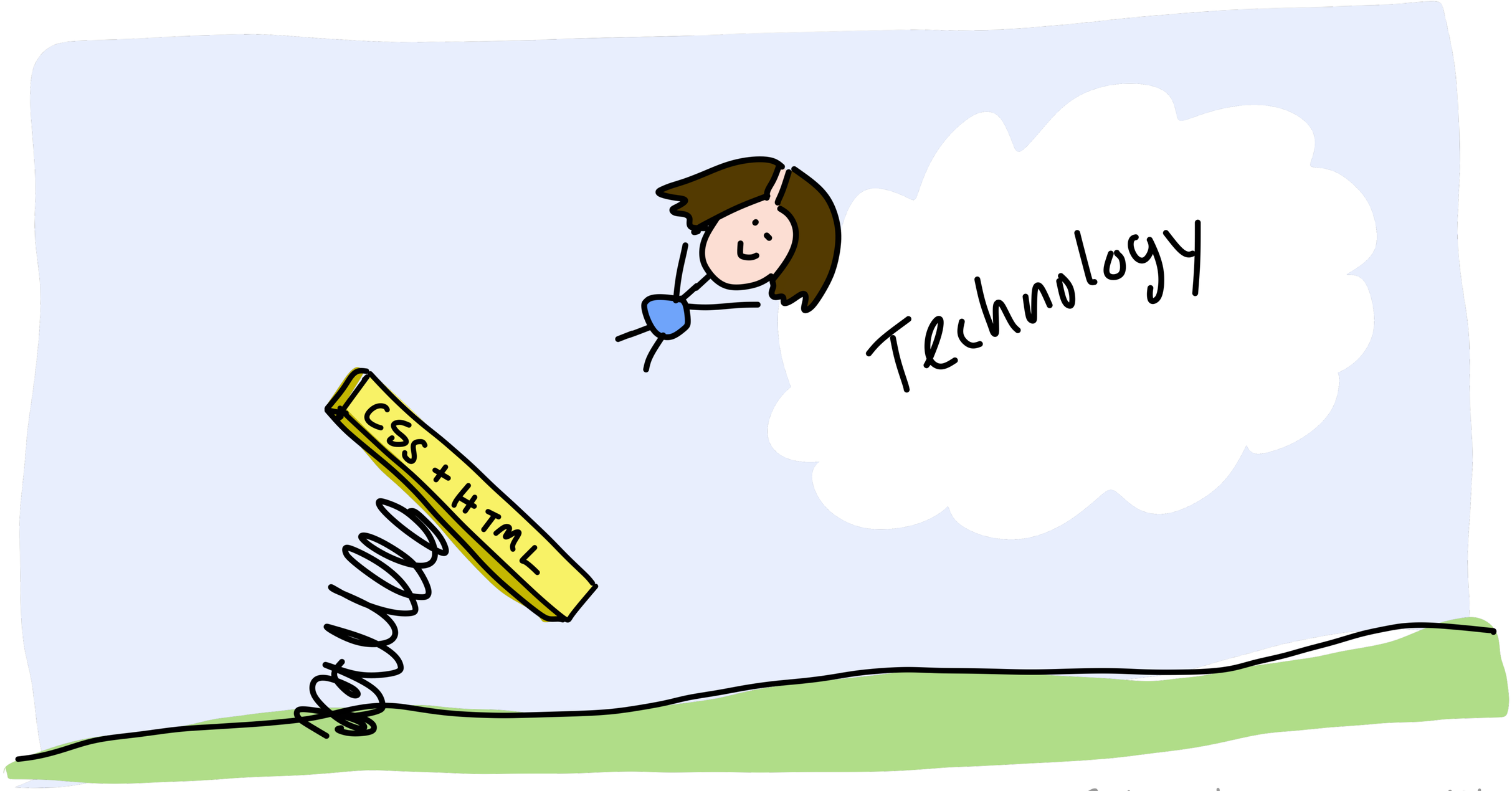

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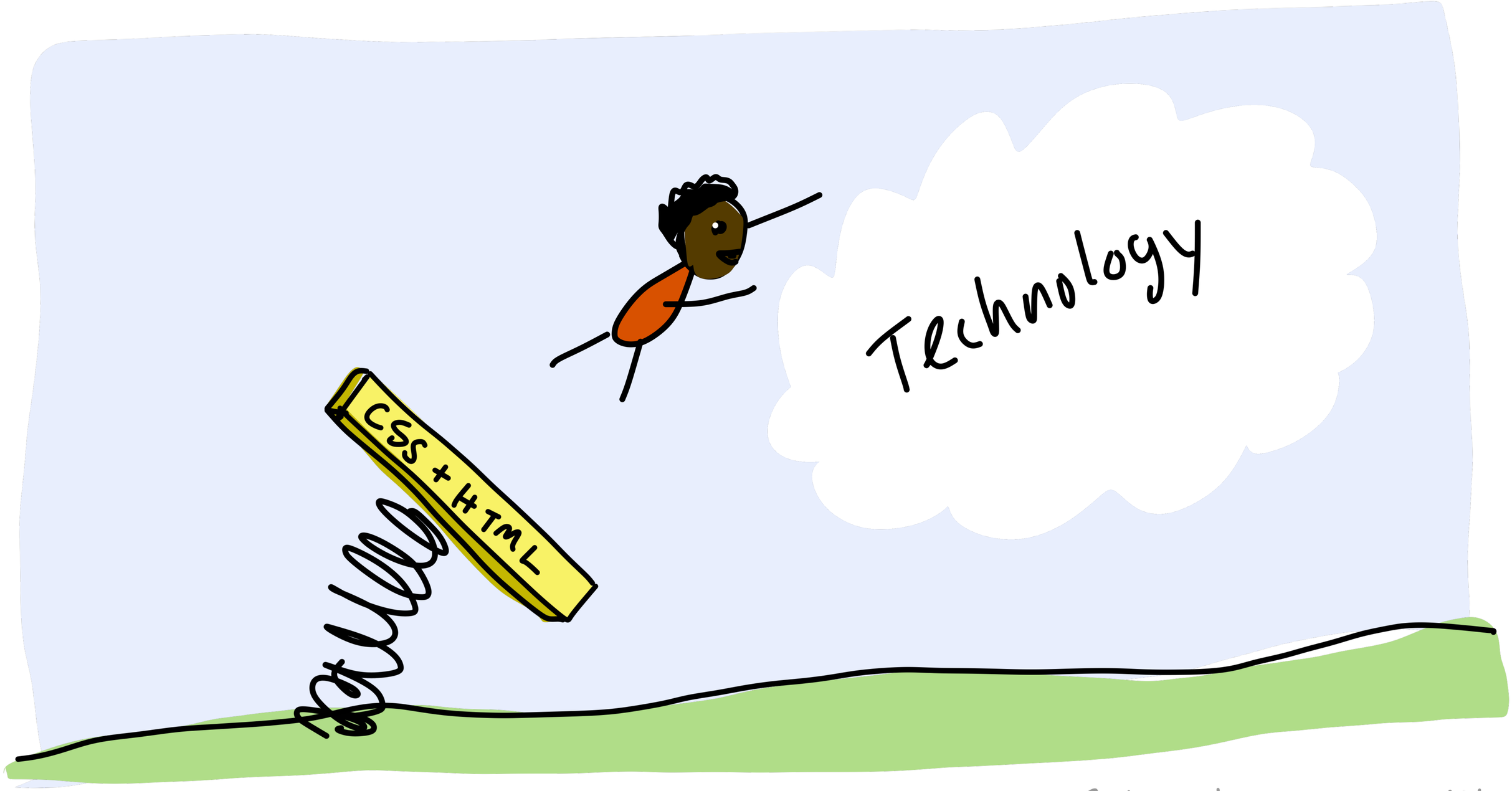

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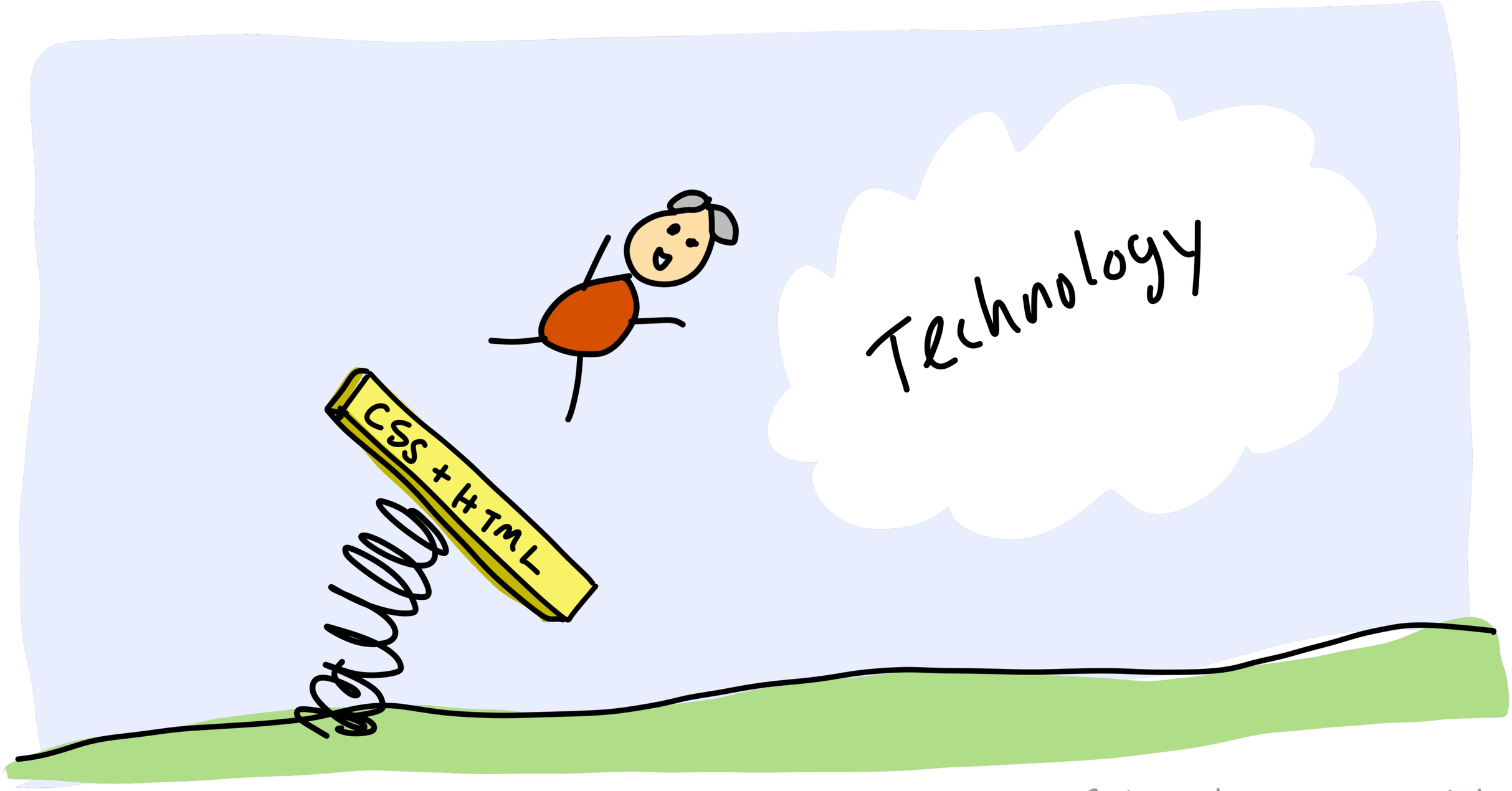

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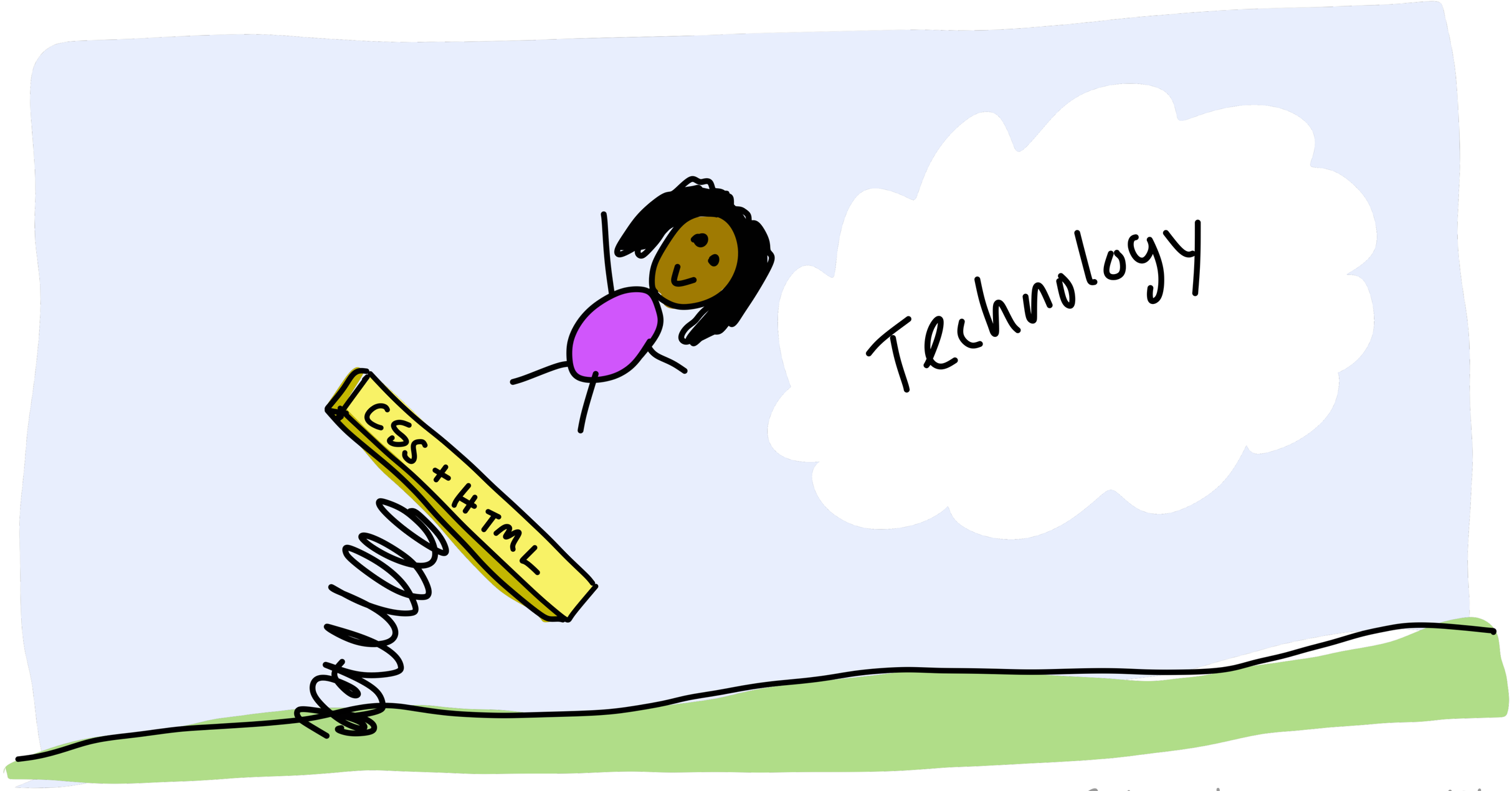

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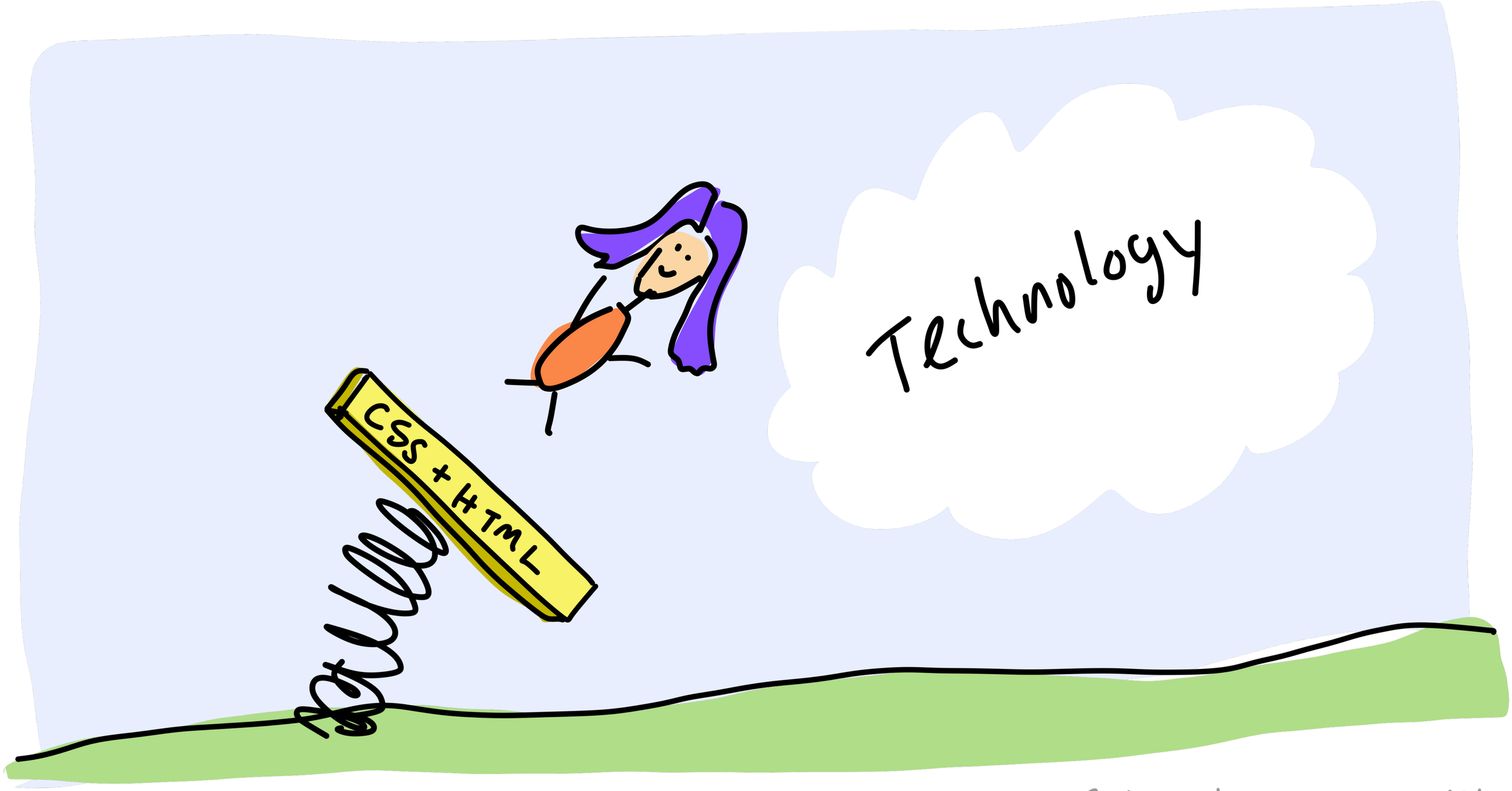

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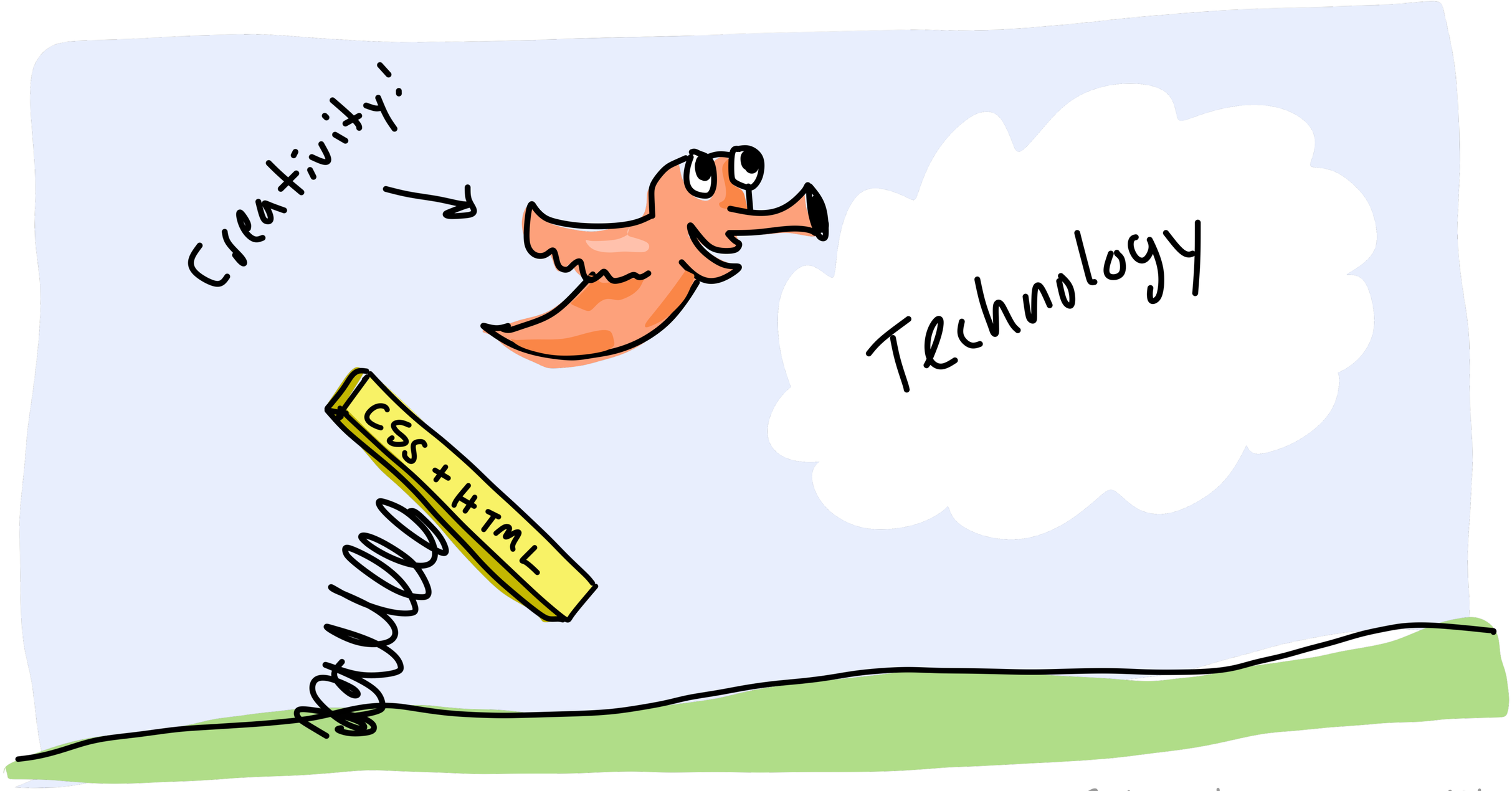

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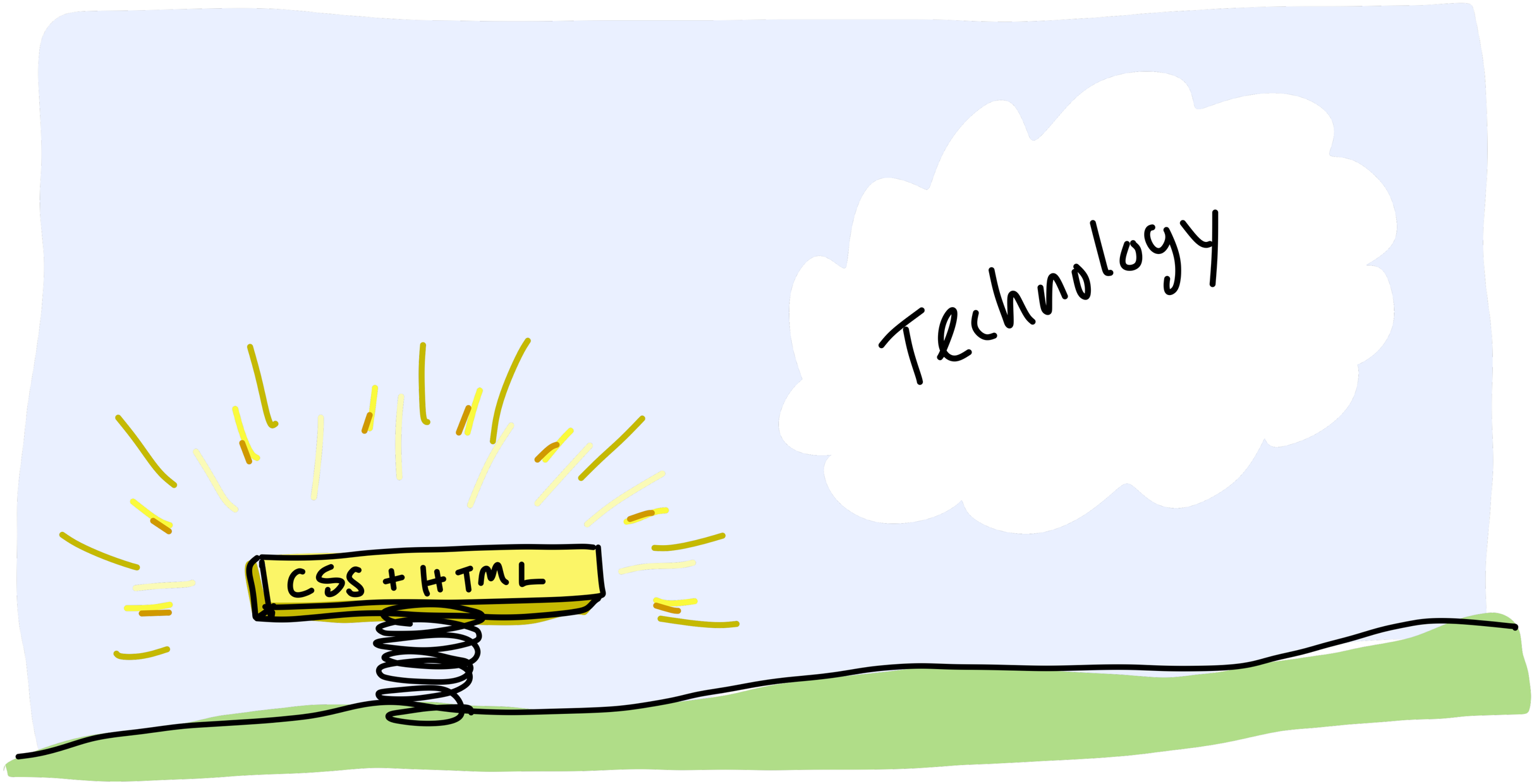

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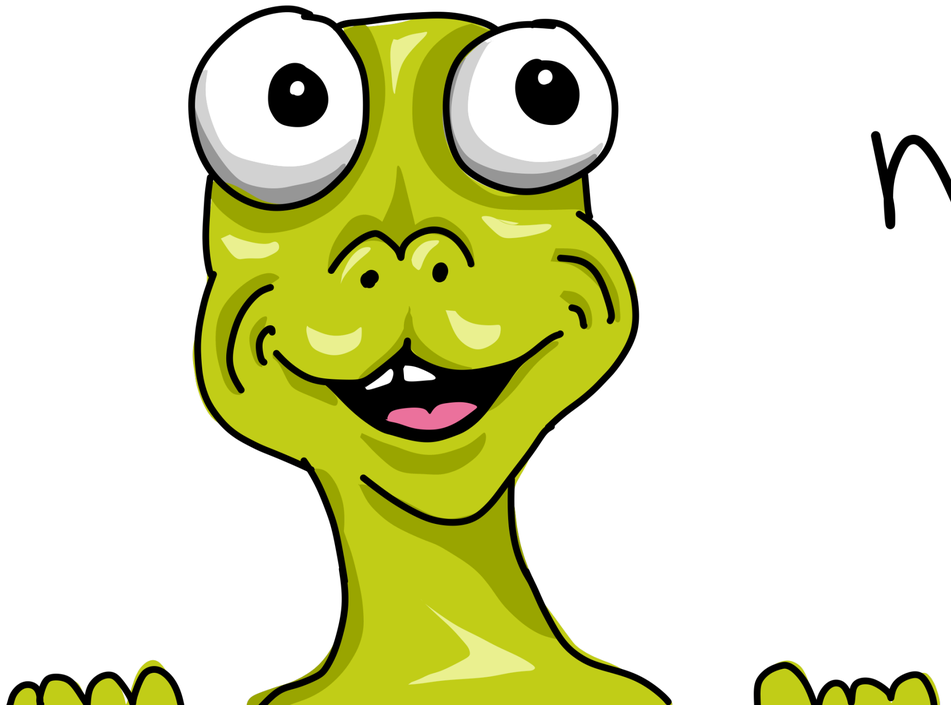
Thank You!!

notlaura.com/algorithms

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