

Fun Fact

What was one fun fact you learned this week, that you'd like to share!

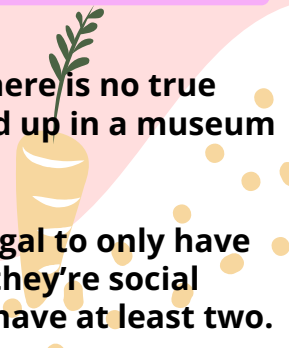
Here are some of mine:



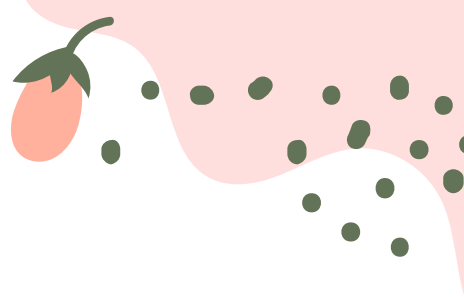
Hot water freezes faster than cold water.

Shakespeare made up over 1,700 words. So you can too!

There exists a museum of failure. So, remember there is no true failure, for even a seemingly failed thing might end up in a museum to be honored.



In Switzerland, it is illegal to only have one guinea pig, since they're social animals. You need to have at least two.



If you stay to the end, there'll be a bonus fun fact :o





What's like Coffee but goes inside your computer?

JavaScript!

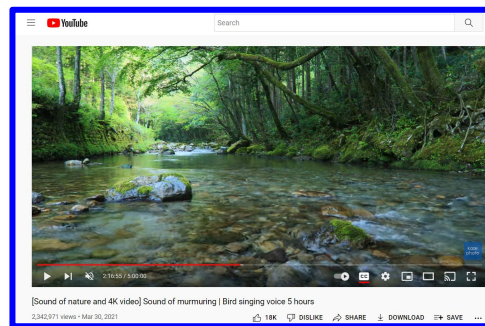
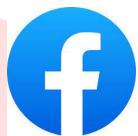
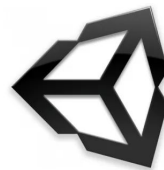


If HTML is the language of the web,

And CSS is the poetry of the web,

Then JavaScript is the science of the web!

Is JavaScript 'just' for web development?





DEMO

with Khan Academy

<https://www.khanacademy.org/computer-programming/new/pjs>





ACTIVITY

"Khan Marathon"

Challenge Marathon:

<https://www.khanacademy.org/computing/computer-programming/programming#functions>

**Go in groups of two and see how many Challenges your team can finish before the activity ends!
You all have 10 minutes.**

Type in chat or unmute yourself to say how far your team got!



But this course is for web designs and apps... which means

We **will be learning JavaScript for Web Design!**



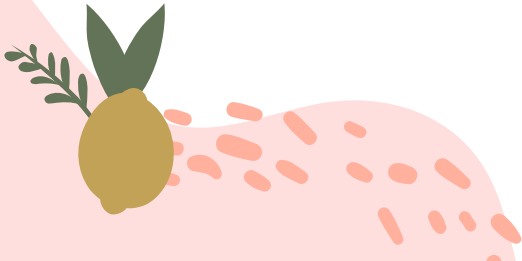
JQuery

The JavaScript of HTML/CSS



With JQuery, you can

- **Create user interaction in your web page or app**
- **Create paragraphs and delete paragraphs**
- **Add or remove styles**
- **Basically you don't even need HTML or CSS. You can just code the entire webpage with JQuery.**





Can v.s. Should

With JQuery, you can

- Create user interaction in your web page or app ★
- Create paragraphs and delete paragraphs
- Add or remove styles
- ~~Basically you don't even need HTML or CSS. You can just code the entire webpage with JQuery.~~



HTML ▼

```
1 <p class="alterThis">
2   Hello World!
3 </p>
4 <button id="hide">
5   Hide
6 </button>
7 <button id="reveal">
8   Reveal
9 </button>
10 <button id="addStyle">
11   Add Style
12 </button>
13 <button id="removeStyle">
14   Remove Style
15 </button>
16
```

Tidy

CSS ▼

```
1 .alterThis {
2   font-weight: bold;
3 }
```

JavaScript + jQuery 3.4.1 ▼

```
1 $(document).ready(function () {
2   $("#hide").click(function () {
3     $(".alterThis").hide();
4   });
5   $("#reveal").click(function () {
6     $(".alterThis").show();
7   });
8   $("#addStyle").click(function () {
9     $(".alterThis").css( "border", "3px solid red" );
10    $(".alterThis").css( "color", "blue" );
11  });
12  $("#removeStyle").click(function () {
13    $(".alterThis").css( "border", "" );
14    $(".alterThis").css( "color", "" );
15  });
16
17 });
```

Hello World!

Hide

Reveal

Add Style


Remove Style

> Console (beta)


0 0 0 0 5

DEMO





Anything can be interactive. Not just buttons. But what's important is to make it **obvious** to the player what things can be interacted with



ACTIVITY

"Interactivity Madness!"

Groups of two/three.

Spend 15 minutes.

Find one favorite thing you all share in common, then collaborate to make a website about that topic. **Overboard the site with interactivity! Spam it with interactive madness :D**

Use this to code:

<https://jsfiddle.net/>

Submit here:

<https://tinyurl.com/2z4tvp8n>

All entries must be respectful.

NSFW not allowed.

Be mindful of what you share with the class.


Summary:

Today we learned:

- JavaScript:
 - Back-End Development
- jQuery
 - JavaScript Library
 - Front-End side of JavaScript
 - Interactive webpages and apps

Coding Recommendation:

1. **Sketch out how you want your webpages and apps to look, and what interactions you want between its components (think hand-drawn sketches, low fidelity prototypes)**
2. **Use Figma to make a mid fidelity prototype.**
3. **Code your prototype using HTML, CSS, and jQuery!**
4. **Let HTML handle the layout, CSS handle the style, and jQuery handle the interactions on the screen.**



Congratulations!

We made it to the end!

And Now.....

FUN FACT



There's a jellyfish called the Immortal Jellyfish. This jellyfish can revert back to its larva-like stage when hurt, letting this jellyfish age again however many times it wants! Hence, this jellyfish has truly discovered the secret to immortality!