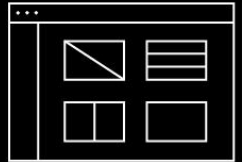THINKFUL

# Build a Web App with JavaScript jQuery

# Thinkful

## Creating Tomorrow's Workforce

Thinkful is a tech bootcamp equipping people with the education and network to launch new careers and take their place in the world's next workforce.

# Guaranteed.

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# What We're Making

## Random Tech Quote Generator

This is a random quote generator featuring quotes from various people who have shaped the technology and computer science industries over the years.

> " When I first started using the phrase software engineering, it was considered to be quite amusing. They used to kid me about my radical ideas. Software eventually and necessarily gained the same respect as any other discipline.
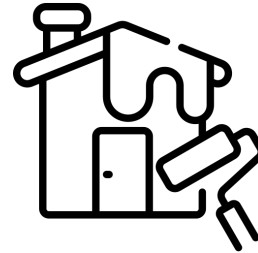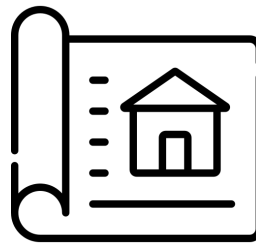>
> - Margaret Hamilton, Mathematician and Pioneering Computer Scientist

Generate Quote

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# What is JavaScript?

➔ Created in 1995
➔ JavaScript !== Java
➔ Adds interactivity to web pages
➔ Models and manipulates data
➔ Interacts with browser elements

HTML vs CSS vs JavaScript

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# What is jQuery?

➔ An open source JavaScript library
➔ Simplifies complex JavaScript
➔ Many libraries and plugins
➔ Allows for selection, transversal, manipulation of DOM elements and more!

# HTML/CSS Refresher

```
<!DOCTYPE html>
<html>
  <head>
    <title>HTML Example</title>
  </head>
  <body>
    <h1>This is an Example<h1/>
    <p>Your website content goes here!</p>
    <script src="app.js"></script>
  </body>
</html>
```

# Using JavaScript And jQuery

➔ Import JavaScript or jQuery code using a script tag in HTML

```html
<!DOCTYPE html>
<html>
  <head>
    <title>jQuery Example</title>
  </head>
  <body>
    <p>Your website content goes here!<p/>
    <script
src="https://code.jquery.com/jquery.min.js"></script>
    <script src="app.js"></script>
  </body>
</html>
```

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# Selectors

Element to grab

$('.shopping-list')

jQuery always starts with this

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# Transversal

Transversal allows us to move through the HTML of a page.
➔    .parent() - Select the parent element of an element.
➔    .find() - Select the descendants of an element.

$("li").parent(.shopping-list).css("color","red")

# Manipulation

Allows you to edit, add, or delete DOM elements
on a page

➜    .css()
➜    .append()
➜    .prepend()
➜    .text()

$(".item").append("<p>Hello!</p>")

Check out a more comprehensive list of what you
can do by visiting the documentation.

# Event Listeners

Watches elements for certain actions, such as a click

➔ Many events can be used such as mouseover (hover), page load, etc.

➔ Commonly used for buttons or elements that have click events.

➔ event.currentTarget - target the element that was just clicked.

```
$('.btn').on("click", function(event) {
    $('.btn).text("Show  Quote").css("color", "gray");
});
```

# JavaScript vs jQuery

```
# JavaScript Example

var box = document.getElementsByClassName("box");

for (var i = 0; i < box.length; i++) {
        box[i].style.backgroundColor = "red";
}
```

```
# jQuery Example

$(".box").css("background-color", "red").
```

# Tonight's Project

**Random Tech Quote Generator**

This is a random quote generator featuring quotes from various people who have shaped the technology and computer science industries over the years.

Click the button below to generate a random quote!

Generate Quote

# Real Developers Use Google... A Lot

Google    jquery changing background color                    🎤  🔍

          jquery changing **css**
          jquery changing **text**
          jquery changing **background color**
          jquery changing **class**

stack**overflow**                            ⬤ **GitHub**

w3 **w3schools**.com                          jQuery
                                              write less, do more.

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# Starter Code

**Start Here:**
bit.ly/web-app-starter

```html
1  <header>
2      <h1>Random Tech Quote Generator</h1>
3      <p>This is a random quote generator
   featuring quotes from various people who
   have shaped the technology and computer
4      science industries over the years.</p>
5  </header>
   <section class="quote-container">
```
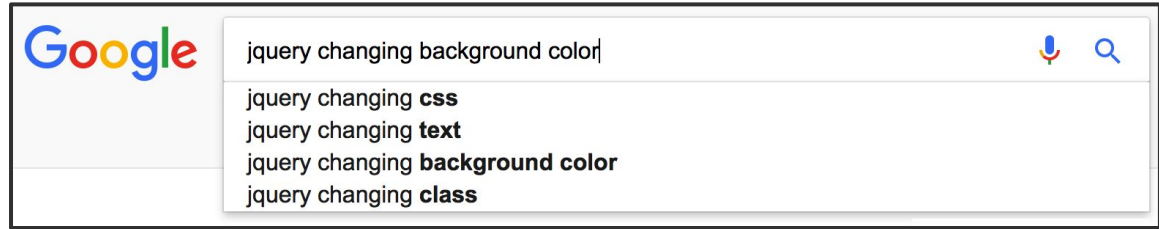
⚙ CSS                                           ⌄

```css
1  body {
2      padding: 20px;
3      font-family: 'Montserrat', sans-serif;
4  }
5
6  header {
7      max-width: 900px;
```

⚙ JS                                            ⌄

```js
1  const quotes = [
2      {
3          quote: "That brain of mine is
   something more than merely mortal; as time
   will show.",
4          name: "Ada Lovelace, Founder of
   Scientific Computing"
5      },{
```

## Random Tech Quote Generator

This is a random quote generator featuring quotes from various people who have shaped the technology and computer science industries over the years.

Click the button below to generate a random quote!

Generate Quote

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# Solution

**HTML**

```
1   <header>
2       <h1>Random Tech Quote Generator</h1>
3       <p>This is a random quote generator
    featuring quotes from various people who
    have shaped the technology and computer
4       science industries over the years.</p>
5   </header>
6   <section class="quote-container">
7       <div id="quote">
8           <p class="message">Click the
```

**CSS**

```
1   body {
2       padding: 20px;
3       font-family: 'Montserrat', sans-serif;
4   }
5
6   header {
7       max-width: 900px;
8       margin: auto;
9   }
```

**JS**

```
    10 quotes so we want a number from 0 to 9.
    The quotes array starts counting at 0.
39
40  function randomNumber(){
```

## Random Tech Quote Generator

This is a random quote generator featuring quotes from various people who have shaped the technology and computer science industries over the years.

❝ We will always have STEM with us. Some things will drop out of the public eye and will go away, but there will always be science, engineering, and technology.And there will always, always be mathematics.

- Katherine Johnson, NASA Mathematician

Generate Quote

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# Additional Challenges

Below are improvements you can make to the generator to make it your own:

➔ **Update the quotes** to match your favorite quotes.
➔ **Change the style!** Update color scheme to something else, such as adding a background image or trying a monochrome theme.
➔ **Enhance the quotes** by adding in a year or an image for each person.
➔ **Add interactivity** like a button so users can tweet or email the quotes.
➔ **Use an API** to pull quotes from a database.

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# Keep the
# Ball Rolling

→ Meetups

→ YouTube Tutorials

→ Coding Websites

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# Learn More with Thinkful:

**Engineering Flex Course**
**bit.ly/TF-Schedule-A-Call**

**Post any questions in the Chat and Q&A!**

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