

# PUT DOWN THE JAVASCRIPT

Level Up with the Fundamentals of  
Web Development

PUSH START

@colbyfayock

# Colby Fayock

Developer Advocate



@colbyfayock



# Mark



# Luke



# Mark

## Bootcamp A

4 week crash course

Become a Javascript ninja

Hot and popular libraries and frameworks like React & Redux



# Luke



## Bootcamp B

8 week intensive course

Build a website from scratch  
with HTML and CSS

Learn about how Javascript  
works and using it to make your  
website dynamic

# 1up, Inc

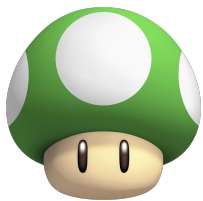


## Jr Front End Dev

Work with the engineering team to create and maintain websites

Technologies: HTML, CSS, JS, React, Redux, CSS-in-JS

Experience: 1+ years



# 1up, Inc

About Services



## We 1up the competition

We at 1up, Inc care deeply about our customer's needs. We guarantee satisfaction with all of our ups.

# Mark

## Solution A

Bootstrap a new app

Use React as the framework

CSS-in-JS for styling





# Luke



## Solution B

Create an HTML file

Put together the page with HTML

Style everything with CSS

# Solution A

Mark



# Solution B

Luke



1up, Inc



1up, Inc

[About](#) [Services](#)



We 1up the competition

We at 1up, Inc care deeply about our customer's needs. We guarantee satisfaction with all of our ups.

```
→ my-test-app npm install react
npm WARN saveError ENOENT: no such file or directory, open '/Users/colby/package.json'
npm WARN enoent ENOENT: no such file or directory, open '/Users/colby/package.json'
```

→ my-test-app npm install react

npm WARN saveError ENOENT: no such file or directory, open '/Users/colby/package.json'

```
10 <div id="root"></div>
11
12 <script src="https://unpkg.com/react@16/umd/react.development.js" crossorigin></script>
13 <script src="https://unpkg.com/react-dom@16/umd/react-dom.development.js" crossorigin></script>
14 <script>
15   const MyApp = () => {
16     return (
17       <div>
18         Hello world!
19       </div>
20     );
21   }
22   const domContainer = document.querySelector('#root');
23   ReactDOM.render(MyApp, domContainer);
24 </script>
```

→ my-test-app npm install react

npm WARN saveError ENOENT: no such file or directory, open '/Users/colby/package.json'

```
10 <div id="root"></div>
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12 <script src="https://unpkg.com/react@16/umd/react.development.js" crossorigin></script>
13 <script src="https://unpkg.com/react-dom@16/umd/react-dom.development.js" crossorigin></script>
14 <script>
15   const MyApp = () => {
16     return (
17       <div>
18         Hello world!
19       </div>
20     );
21   }
22   const domContainer = document.querySelector('#root');
23   ReactDOM.render(MyApp, domContainer);
24 </script>
```

✖ Uncaught SyntaxError: Unexpected token '<'

index.html:17

```
→ my-test-app npm install react
```

```
npm ERR! saveError ENOENT: no such file or directory, open '/Users/colby/package.json'
```

```
10 <div id="root"></div>
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```
14 <script src="https://unpkg.com/babel-standalone@6/babel.min.js"></script>
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15 <script type="text/babel">
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16 const MyApp = () => {
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17   return (  
18     <div>
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19     Hello world!
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20     </div>
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21   );
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22 }
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```
23 const domContainer = document.querySelector('#root');
```

```
24 ReactDOM.render(MyApp, domContainer);
```

```
→ my-test-app npm install react
```

```
npm ERR! saveError ENOENT: no such file or directory, open '/Users/colby/package.json'
```

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10 <div id="root"></div>
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14 <script src="https://unpkg.com/babel-standalone@6/babel.min.js"></script>
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15 <script type="text/babel">
```

```
16 const MyApp = () => {
```

```
17   return (  
18     <div>
```

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19     Hello world!
```

```
20     </div>
```

```
21   );
```

```
22 }
```

```
23 const domContainer = document.querySelector('#root');
```

```
24 ReactDOM.render(MyApp, domContainer);
```

precompile your scripts for production - <https://babeljs.io/docs/setup/>

⊗ ▶ Warning: Functions are not valid as a React child. [react-dom.development.js:82](#)  
This may happen if you return a Component instead of `<Component />` from render.  
Or maybe you meant to call this function rather than return it.

```
→ my-test-app npm install react
```

```
npm ERR! ENOENT: no such file or directory, open '/Users/colby/package.json'
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```
10 <div id="root"></div>
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14 <script src="https://unpkg.com/babel-standalone@6/babel.min.js"></script>
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15 <script type="text/babel">
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16 <script type="text/babel">
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```
17 const MyApp = () => {
```

```
18   return (
```

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19     <div>
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20       <div className="nav">
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```
21         <h1>1up, Inc</h1>
```

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22       </div>
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23     </div>
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24   );
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25 }
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Oh, no!

```
→ my-test-app npm install react
npm ERR! saveError ENOENT: no such file or directory, open '/Users/colby/package.json'
10 <div id="root"></div>
11
14 <script src="https://unpkg.com/babel-standalone@6/babel.min.js"></script>
15 <script type="text/babel">
16 <script type="text/babel">
17 const MyApp = () => {
18   return (
19     <div>
20       <div className="nav">
21         <h1>lup, Inc</h1>
22       </div>
23     </div>
24   );
25 }
```



<> <!DOCTYPE html> Untitled-1 ●

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Document</title>
7  </head>
8  <body>
9    |
10 </body>
11 </html>
```

<> <!DOCTYPE html> Untitled-1 ●

1 <!DOCTYPE html>

<> <!DOCTYPE html> Untitled-1 ●

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9
10 <header>
11   <p>
12     
13     1up, Inc
14   </p>
15   <nav>
16     <ul>
17       <li>
18         <a href="/about">About</a>
19       </li>
20       <li>
21         <a href="/services">Services</a>
22       </li>
23     </ul>
24   </nav>
25 </header>
```

```
<> <!DOCTYPE html> Untitled-1 ●
```

```
1 <!DOCTYPE html>
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<> <!DOCTYPE html> Untitled-1 ●
```

```
1 <!DOCTYPE html>
```

```
2 <html lang="en">
```

```
<main>
```

```

```

```
<section>
```

```
<h1>We lup the competition</h1>
```

```
<p>
```

```
We at lup, Inc care deeply about our customer's needs. We guarantee satisfaction with all of our ups.
```

```
</p>
```

```
</section>
```

```
</main>
```

<!DOCTYPE html> Untitled-1

1 <!DOCTYPE html>

<!DOCTYPE html> Untitled-1

1 <!DOCTYPE html>

2 <html lang="en">

26

27 <main>

28 

29 </main>

```
11 header {
12   display: flex;
13   align-items: center;
14   justify-content: space-between;
15 }
16 header p {
17   display: flex;
18   align-items: center;
19 }
20 header img {
21   display: block;
22   width: 5em;
23 }
24 header ul {
25   display: flex;
26   align-items: center;
27   list-style: none;
28   padding: 0;
29   margin: 0;
30 }
```

# Solution A

Mark



# Solution B

Luke



1up, Inc



1up, Inc

[About](#) [Services](#)

@colbyfayock

We 1up the competition

# Solution B

Luke



**1up, Inc**

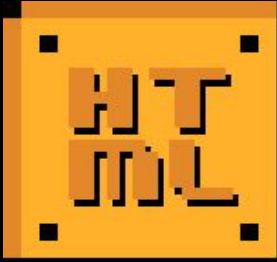
About Services



We 1up the competition

We at 1up, Inc care deeply about our customer's needs. We guarantee satisfaction with all of our ups.





# Starting with the basics



# HTML

# Hypertext Markup Language

```
1  <!DOCTYPE html>
2  <html lang="en">
3    <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7    </head>
8    <body>
9      <h1>Hello, world. It's a me!</h1>
10   </body>
11 </html>
```

# React / JSX

```
1  import React from 'react';
2
3  const MyPage = () => {
4    return (
5      <h1>Hello, world. It'sa me!</h1>
6    )
7  }
8
9  export default MyPage;
```

# Compiled HTML

```
gtag('js', new Date());</script><style>.async-hide { opacity: 0 !important }</style><script>(fun
{s.className+=' '+y;h.start=1*new Date;
h.end=function(){s.className=s.className.replace(RegExp(' ?'+y),'')};
(a[n]=a[n]||[]).hide=h;setTimeout(function(){i();h.end=null,c);h.timeout=c;
})(window,document.documentElement,'async-hide','dataLayer',500,{ 'GTM-NJ75NM':true});</script><s
28076707-1', {'optimize_id':'GTM-MF4ZKBR'});</script><script>(function(w,d,s,l,i){w[l]=w[l]||[];
new Date().getTime(),event:'gtm.js'});var f=d.getElementsByTagName(s)[0],
j=d.createElement(s),dl=l!='dataLayer'?'&l='+l:'';j.async=true;j.src=
https://www.googletagmanager.com/gtm.js?id='+i+dl+'&gtm_cookies_win=x';f.parentNode.insertBefore
})(window,document,'script','dataLayer','GTM-NJ75NM');</script><link as="script" rel="preload"
b319c86f02de5ec43924.js"/><link as="script" rel="preload" href="/framework-8e210829bcc33c32949c.
rel="preload" href="/532a2f07-05d0124221769214927b.js"/><link as="script" rel="preload" href="/a
<link as="script" rel="preload" href="/styles-dae9ed5f9ccc5d832e2f.js"/><link as="script" rel="p
723ebac6e6cf64f05011.js"/><link as="script" rel="preload" href="/5e2a4920-9137fe65eee67519368e.j
rel="preload" href="/37272d1faf3f5a324dd7a8eed57e2d6b70c2dab2-763d03f360d41cd8a342.js"/><link as
href="/component---src-pages-index-js-ccb8ffb8baa20a7c0764.js"/><link as="fetch" rel="preload" h
data.json" crossorigin="anonymous"/><link as="fetch" rel="preload" href="/page-data/app-data.js
</head><body class="home"><noscript><iframe
src="https://www.googletagmanager.com/ns.html?id=GTM-NJ75NM&gtm_cookies_win=x"
height="0"
width="0"
style="display: none; visibility: hidden"
></iframe><noscript><div id="__gatsby"><div style="outline:none" tabindex="-1" id="gatsby-focu
class="header container" role="navigation"><div class="content"><div class="row"><div class="hea
current="page" class="" href="/">Colby Fayock</a><span class="tagline">A UX Designer & Front
</div><div class="header-social"><ul class="social-icons"><div><li class="social-icons-twitter">
href="http://twitter.com/colbyfayock" rel="me"><svg stroke="currentColor" fill="currentColor" st
512" height="1em" width="1em" xmlns="http://www.w3.org/2000/svg"><path d="M459.37 151.716c.325 4
138.72-105.583 298.558-298.558 298.558-59.452 0-114.68-17.219-161.137-47.106 8.447 9.74 16.568 1.
16.568 130.274-44.832-46.132-97.5-84.792-31.188-98.112-72.772 6.498 974 12.995 1.624 19.818 1.62
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87.391 0-19.492 5.197-37.36 14.294-52.954 51.655 63.675 129.3 105.258 216.365 109.807-1.624-7.79
57.828 46.782-104.934 104.934-104.934 30.213 0 57.502 12.67 76.67 33.137 23.715-4.548 46.456-13.
24.366 44.833 46.132 57.827 21.117-2.273 41.584-8.122 60.426-16.243-14.292 20.791-32.161 39.308-
@colbyfayock er</span></a></li><li class="social-icons-youtube"><a href="https://youtu
fill="currentColor" stroke-width="0" viewBox="0 0 576 512" height="1em" wi
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```
<body class="home">
<noscript>
<iframe src="https://www.googletagmanager.com/ns.html?id=GTM-NJ75NM&gtm_cookies_win=x"
</noscript>
<div id="__gatsby">
<div style="outline:none" tabindex="-1" id="gatsby-focus-wrapper">
<div>
<nav class="header container" role="navigation">
<div class="content">
<div class="row">
<div class="header-logo">
<h1 class="h1">
<a aria-current="page" class="" href="/">Colby Fayock</a>
<span class="tagline">A UX Designer & Front End Engineer
</h1>
</div>
</div>
<div class="header-social">
<ul class="social-icons">
<div>
<li class="social-icons-twitter">
<a href="http://twitter.com/colbyfayock" rel="me">
<svg stroke="currentColor" fill="currentColor"
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</svg>
<span class="ir">Twitter</span>
</a>
</li>
<li class="social-icons-youtube">
<a href="https://youtube.com/colbyfayock" rel="me">
<svg stroke="currentColor" fill="currentColor"
<path d="M549.655 124.083c-6.281-23.65-24.7
</svg>
<span class="ir">Youtube</span>
</a>
</li>
<li class="social-icons-eggheadio">
<a href="https://egghead.io/instructors/colbv-fayoc
```

CSS

# Cascading Style Sheets

```
7  <style>
8    h1 {
9      color: red;
10     font-size: 30px;
11     text-transform: uppercase;
12   }
13 </style>
14 </head>
15 <body>
16 <h1>Hello, world. It'sa me!</h1>
```

# React + CSS

```
import 'assets/stylesheets/application.scss';
```

```
const MyPage = () => {  
  return (  
    <>  
      <h1>Hello, world. It'sa me!</h1>  
    </>  
  )  
}
```

```
const useStyles = createUseStyles({  
  h1: {  
    color: 'red',  
    fontSize: 30,  
    textTransform: 'uppercase'  
  }  
})
```

```
<style jsx global>{`  
  h1 {  
    color: red;  
    font-size: 30px;  
    text-transform: uppercase;  
  }  
`}</style>  
<h1>Hello, world. It'sa me!</h1>
```

```
const Title = styled.h1`  
  color: red;  
  font-size: 30px;  
  text-transform: uppercase;  
`;  
  
const MyPage = () => {
```



# Compiled CSS

```

.fa-thumbs-o-up,.article-list-more,.fa-hand-o-down{display:none}.article-excerpt-more a,.article-
down,.article-list-more a:hover,.fa-hand-o-down{display:none}.article-excerpt-more a:hover::
sizing:border-box}body{color:#2b2e30;font-family:Source Sans Pro,Helvetica,Arial,sans-serif;
color:#fff}@media (max-width:37.5em){.row(padding:1em)}.page-title{margin:0}.article-list-mo
o-down{display:none}.article-excerpt{margin-bottom:4em}@media (max-width:37.5em){.article-ex
p{margin:0 0 .8em}.article-excerpt p:last-child{margin-bottom:0}.article-excerpt .article-me
excerpt-header-title{margin:0 0 .4em}.article-excerpt-more{font-size:1em;font-weight:600}.a
0}.pagination ul{list-style:none;text-align:center;padding:0;margin:0}.pagination li{display
.4em}.pagination a{text-decoration:none}.pagination a:hover{text-decoration:underline}.pagin
style:none;padding:0;margin:0}.social-icons li{display:inline-block;margin:0 .5em}.social-ico
icons li{margin:0}.social-icons a{display:block;width:2em;height:2em;line-height:2em;text-al
polygon{color:#007079}.social-icons a,.social-icons path,.social-icons polygon{color:#505458
egghead{transform:translateY(1px)}.article-content iframe{display:block;margin:0 auto}.artic
content:center;list-style:none;padding:0;margin:0}.article-links li{margin:0 .8em}.article-l
items:center;text-decoration:none}.article-links svg{font-size:.9em;margin-right:.5em}.artic
direction:row;justify-content:center;align-items:center}.article-tweet a{font-size:1.4em;text
header{padding:3em 0 4em}@media (max-width:37.5em){.article-header{padding:0 0 4em}.article
}.article-header h1{font-size:3em)}.article-content-body{margin-bottom:2em}.article-content-l
h4:first-child,.article-content-body h5:first-child,.article-content-body h6:first-child{mar
right:auto}.article-meta{color:#747a80;list-style:none;text-align:center;padding:0;margin:2e
child{margin-left:0}.article-meta li:last-child{margin-right:0}.article-meta a{color:inherit
decoration:underline}.article-meta span{margin-right:2em}.article-meta span:after{content:"
child:after{content:none}.article-meta .categories-list{color:#0070708;font-weight:600}.home
(max-width:37.5em){.home .header{margin:4em auto}.home .react-tabs__tab-list{display:flex;j
style:none;padding:0;margin:0 0 4em}.home .react-tabs__tab{color:#747a80;padding:.4em;margin
selected{color:#0070708;border-bottom:3px solid #007079}.page-about h3{margin-bottom:.8em}.pa
size:1em;margin-top:0}.header{text-align:center}.header .row{display:flex;width:100%;margin-l
a{font-weight:700}.home .header .h1{text-align:center}.home .header .h1 a{font-size:1.6em}@m
.h1{font-size:1em}.header .tagline{display:block;color:#747a80;font-weight:400;font-size:1.5e
grow:1}body:not(.home) .header .header-logo{font-size:1.4em;text-align:left}body:not(.home)
height:2em}body:not(.home) .header .header-logo a:hover{color:#007079}@media (max-width:37.5
icons{display:flex;font-size:1.6em;flex-flow:wrap;justify-content:center;margin-top:.3em}@me
.row(padding:0;margin-bottom:0)}.footer .container{margin:8em auto}@media (max-width:37.5em){
ondary{color:#747a80;font-size:1em;text-align:center}@media (max-width
.5em).footer-secondary .emoji{font-size:2.5em;margin-bottom:.2em}.foot

```

```

}

@media (max-width: 37.5em) {
  .article-header {
    padding: 0 0 4em
  }
}

.article-header h1 {
  font-size: 4.08em;
  text-align: center;
  margin-bottom: 0
}

@media (max-width: 37.5em) {
  .article-header h1 {
    font-size: 3em
  }
}

.article-content-body {
  margin-bottom: 2em
}

.article-content-body h2:first-child,.article-content-body h3:first-child,.article-content-body h4:first-child {
  margin-top: 0
}

.article-content-body img {
  display: block;
  margin-left: auto;
  margin-right: auto
}

.article-meta {
  color: #747a80;
}

```





LEVEL UP

# \$EO

# Search Engine Optimization



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Sr UX & Front End Engineer at Element 84



@colbyfayock

# HTML Page Outline

\* Super Mario Bros. Switch Games

`<h1>Super Mario Bros. Switch Games</h1>`

\* Mario

`<h2>Mario</h2>`

\* Mario Karty 8 Deluxe

`<h3>Mario Karty 8 Deluxe</h3>`

\* Super Mario Party

`<h3>Super Mario Party</h3>`

\* Mario Tennis Aces

`<h3>Mario Tennis Aces</h3>`

\* Luigi

`<h2>Luigi</h2>`

\* Luigi's Mansion 3

`<h3>Luigi's Mansion 3</h3>`

# Image Alt

```

```

```

```

# <title>

<title>My Cool Webpage</title>



My Cool Webpage



www.colbyfayock.com › 2014/07 › interesting-blog

## My Cool Web Page

Jul 8, 2014 - This is a blog post that's really interesting and has many interesting things.

<title>Interesting Blog Post – My Cool



Interesting Blog Post - My Cool



www.colbyfayock.com › 2014/07 › interesting-blog

## Interesting Blog Post - My Cool W

Jul 8, 2014 - This is a blog post that's really interesting and has many interesting things.

# ACCESSIBILITY

# Accessibility

No Simulation

Yellow-Blue Color Blindness

Red-Green Color Blindness

Total Color Blindness



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# HTML Page Outline

\* Super Mario Bros. Switch Games

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`<h3>Mario Tennis Aces</h3>`

\* Luigi

`<h2>Luigi</h2>`

\* Luigi's Mansion 3

`<h3>Luigi's Mansion 3</h3>`

# Image Alt

```

```

```

```



# SIMPLICITY

```

const MyComponent = () => {
  const defaultWidth = 800;
  const defaultHeight = 600;
  const ratio = defaultHeight / defaultWidth;

  const [dimensions, setDimensions] = useState({
    width: defaultWidth,
    height: defaultHeight
  });

  function handleOnWindowResize() {
    const width = window.innerWidth;
    const height = width * ratio;
    setDimensions({
      width,
      height
    });
  }

  useEffect(() => {
    window.addEventListener('resize', handleOnWindowResize);
    return () => {
      window.removeEventListener('resize', handleOnWindowResize);
    }
  }, []);

  const styles = {
    backgroundImage: url('/my-image.jpg'),
    ...dimensions
  }

```

# Simplicity

```

const MyComponent = () => {
  const styles = {
    width: '100%',
    height: 0,
    backgroundImage: url('/my-image.jpg'),
    backgroundSize: 'cover',
    paddingTop: `${(800/600)*100}%`
  }

  return <div style={styles} />;
}

export default MyComponent;

```

@colbyfayock f={ref} style={styles} />;

# Get Interactive with Native HTML

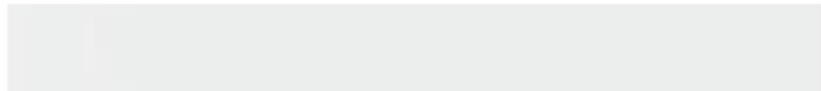
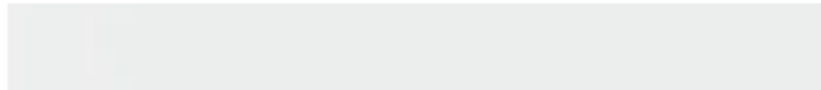
```
<label>My Favorite Color</label>  
<input type="text" name="color" list="colors" />  
<datalist id="colors">  
  <option value="Magenta" />  
  <option value="Purple" />  
</datalist>
```

My Favorite Color

# Loading Without the Load

```
.loading {  
  background: linear-gradient(90deg, ■ #eff1f1 30%,  
    background-size: 400%;  
  animation: loading 1.2s ease-in-out infinite;  
}
```

```
@keyframes loading {  
  0% {  
    background-position: 100% 50%;  
  }  
  100% {  
    background-position: 0 50%;  
  }  
}
```



# Responsive Text









**YOU WIN!**

# FROM DESIGN TO DEVELOPMENT CRASH COURSE

fromdesignto.dev



# GAME OVER

**Colby Fayock**

Developer Advocate

✦ **appli**tools @colbyfayock



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