

# What is HTML?

- Hypertext Markup Language
- Describes the structure and content of a webpage

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <link rel="stylesheet" type="text/css" href="style.css">
5      </head>
6      <body>
7
8          <h1>Hello World</h1>
9
10     </body>
11 </html>
```

# What is CSS?

- Cascading Style Sheets
- Describes the presentation of a webpage

```
1  body {  
2      margin: 50px;  
3      color: dodgerblue;  
4  }
```

# HTML + CSS Demo

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <link rel="stylesheet" type="text/css" href="style.css">
5   </head>
6   <body>
7
8     <h1>Hello World</h1>
9
10  </body>
11 </html>
```



```
1 body {
2   margin: 50px;
3   color: dodgerblue;
4 }
```



Hello World

# Let's Get Started!

- Goal: Create a St. Paddy's Day themed HTML page with animating four leaf clover

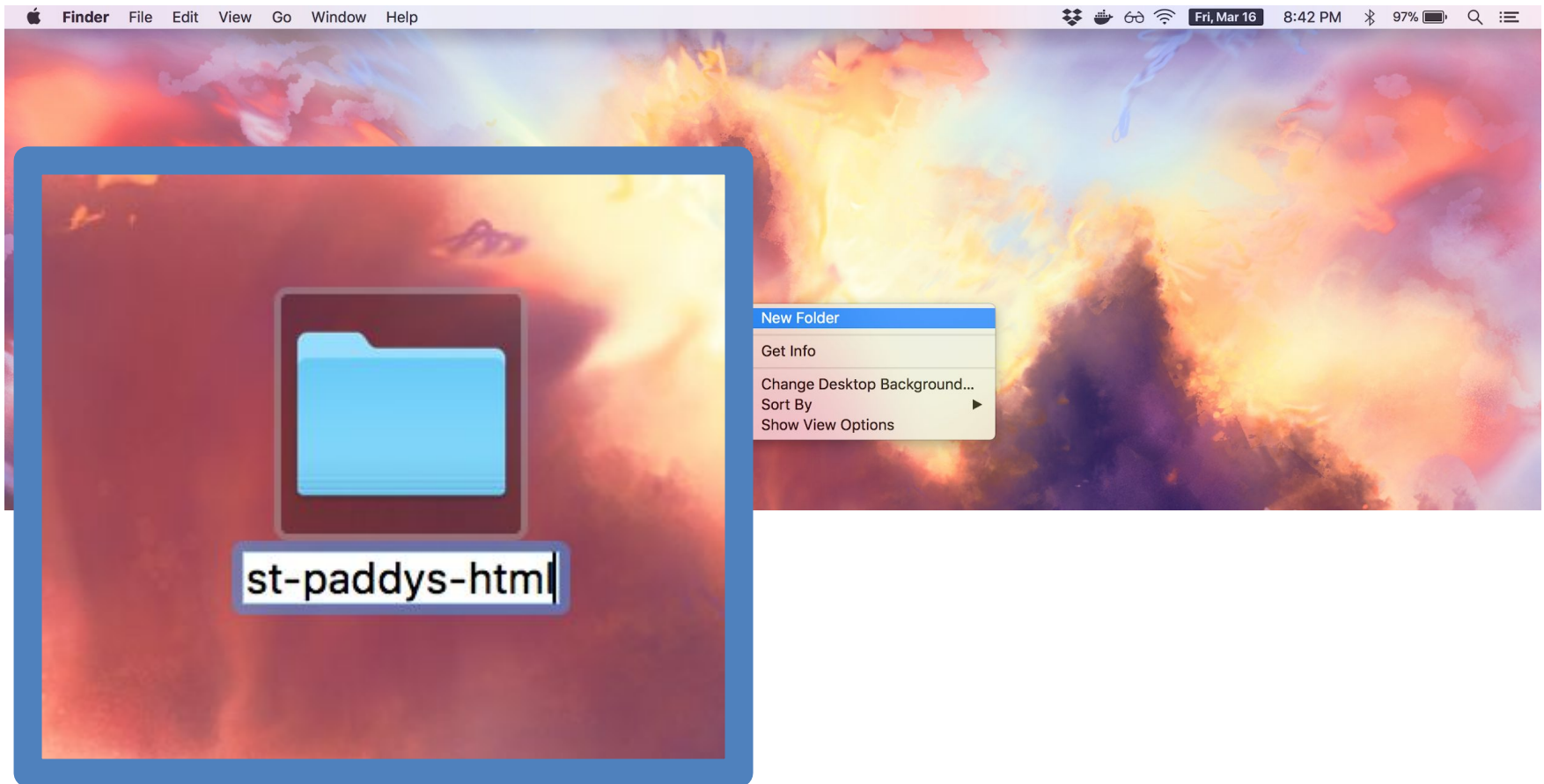


# Project Setup

1. Create a new folder on your desktop called **st-paddys-html**
2. Open the folder in your text editor (Atom)
3. Create an **index.html** and **style.css** file within the folder
4. Type your name in the **index.html** file
5. Open your web browser (Chrome)
6. Drag the **index.html** file into the Chrome tab bar

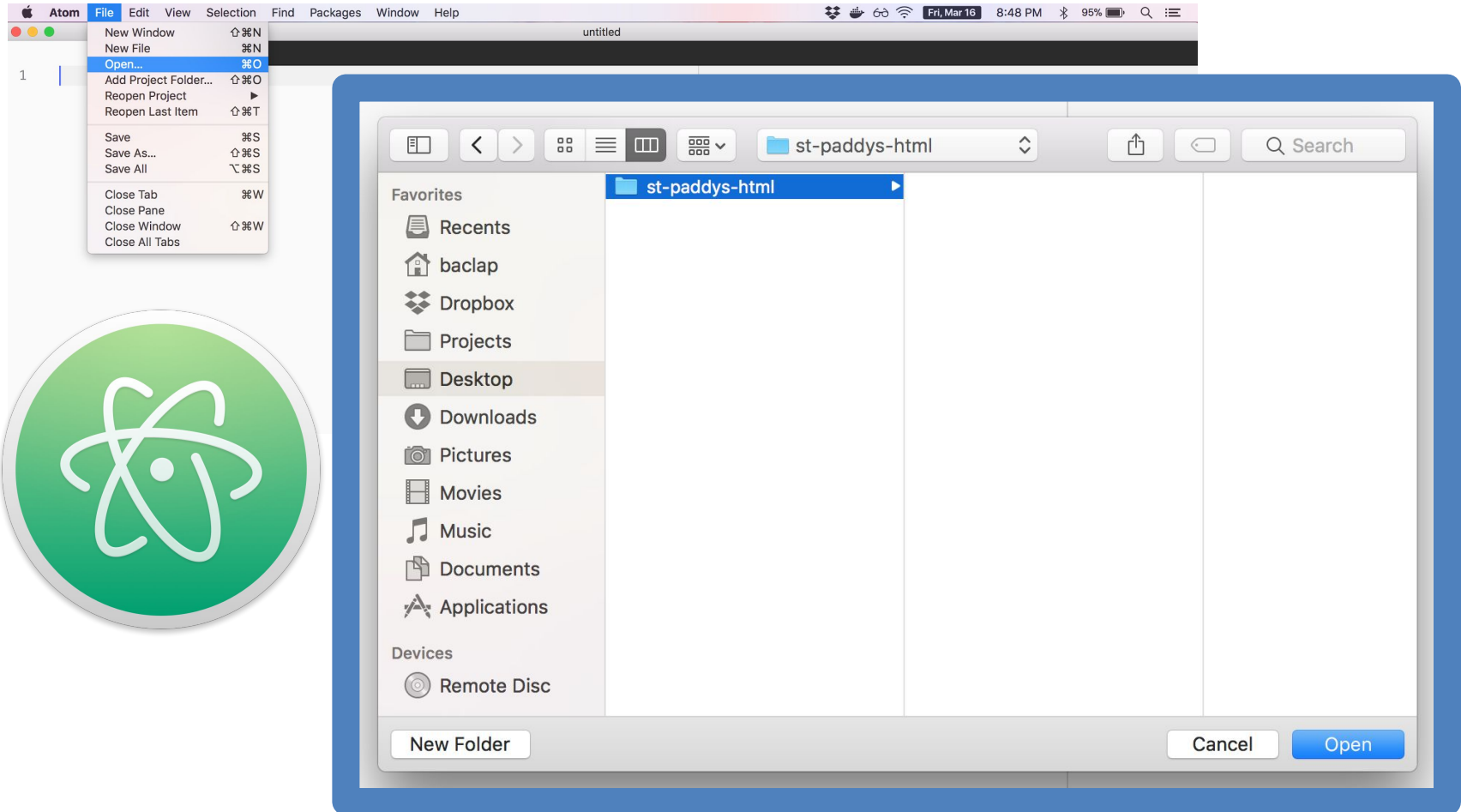
# Create Project Folder

- Create a new folder on your desktop called **st-paddys-html**



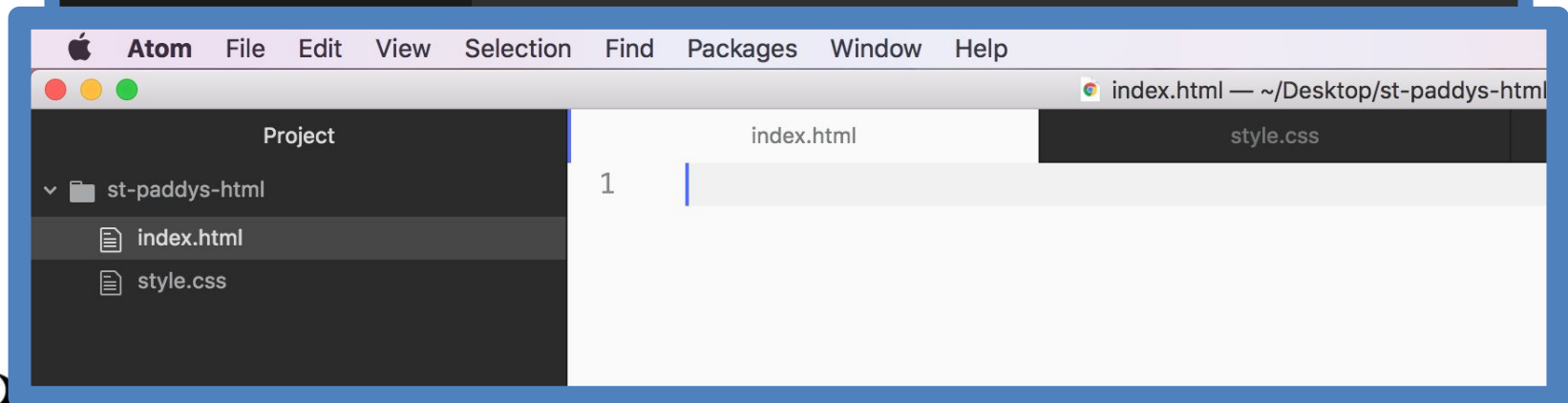
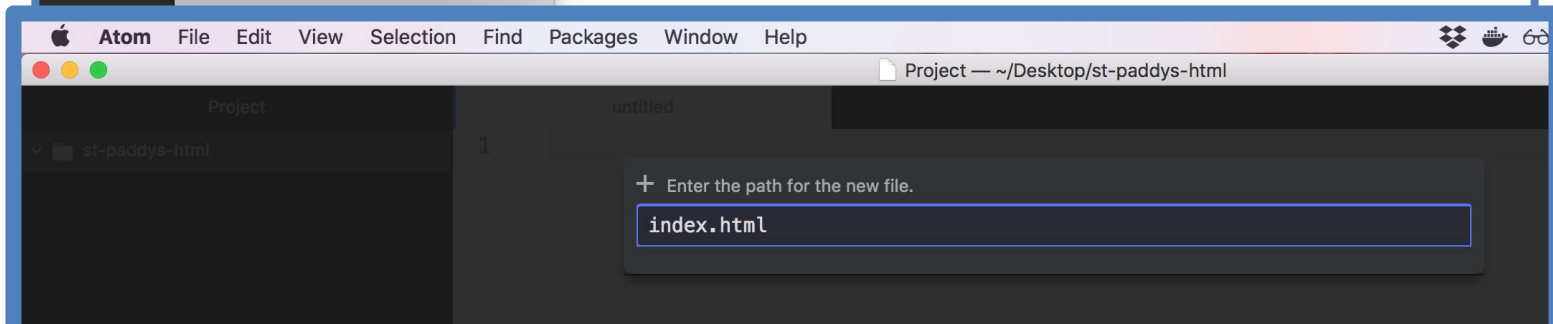
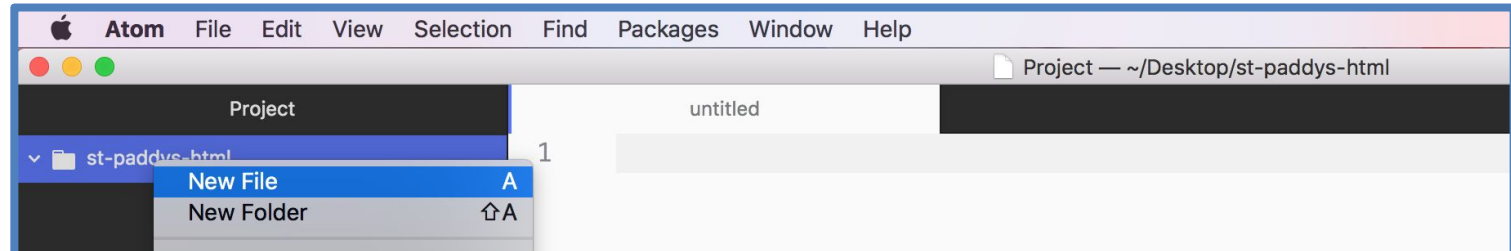
# Open Project Folder

- Open the folder in your text editor (Atom)



# Create Project Files

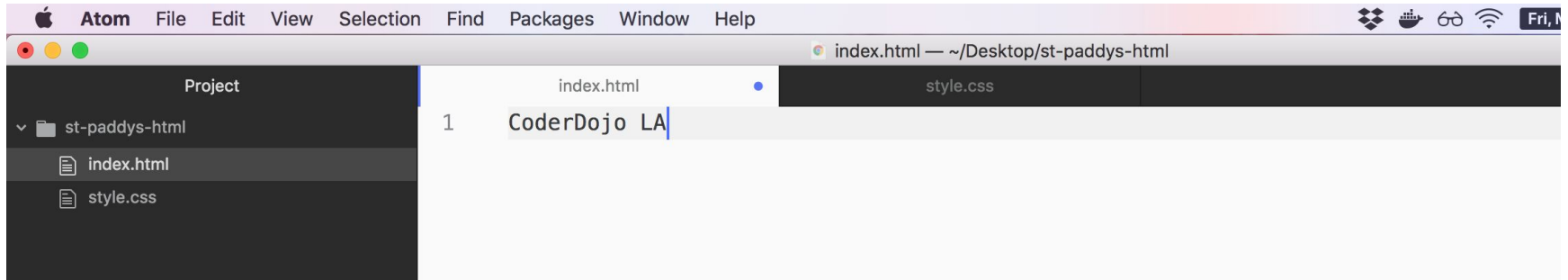
- Create an **index.html** and **style.css** file within the folder



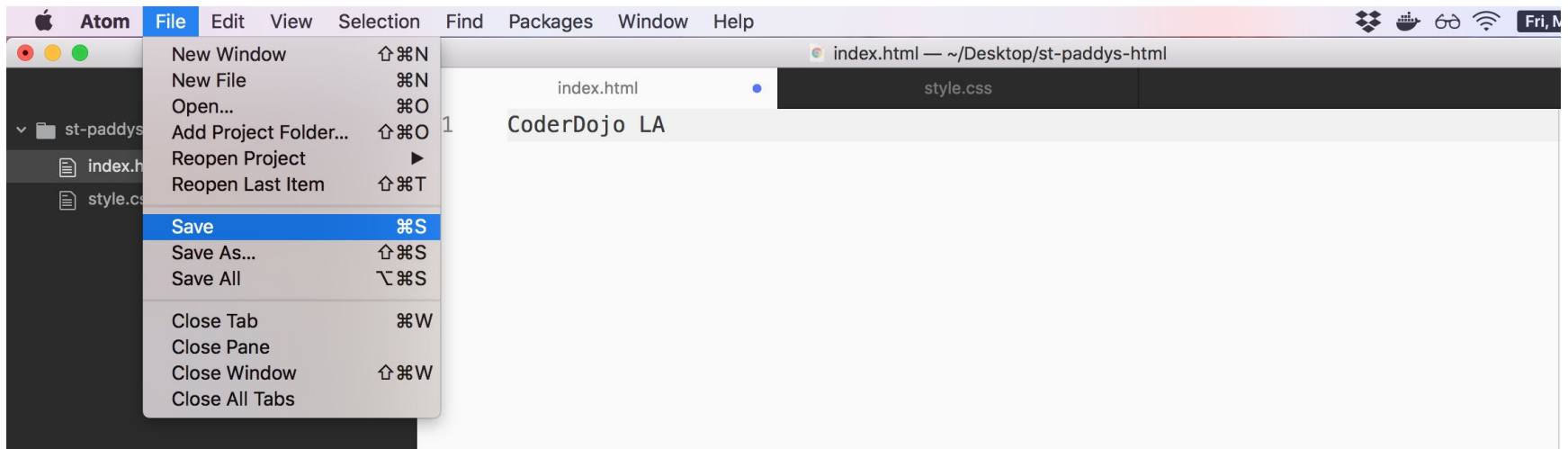


# Populate index.html

- Type your name in the **index.html** file

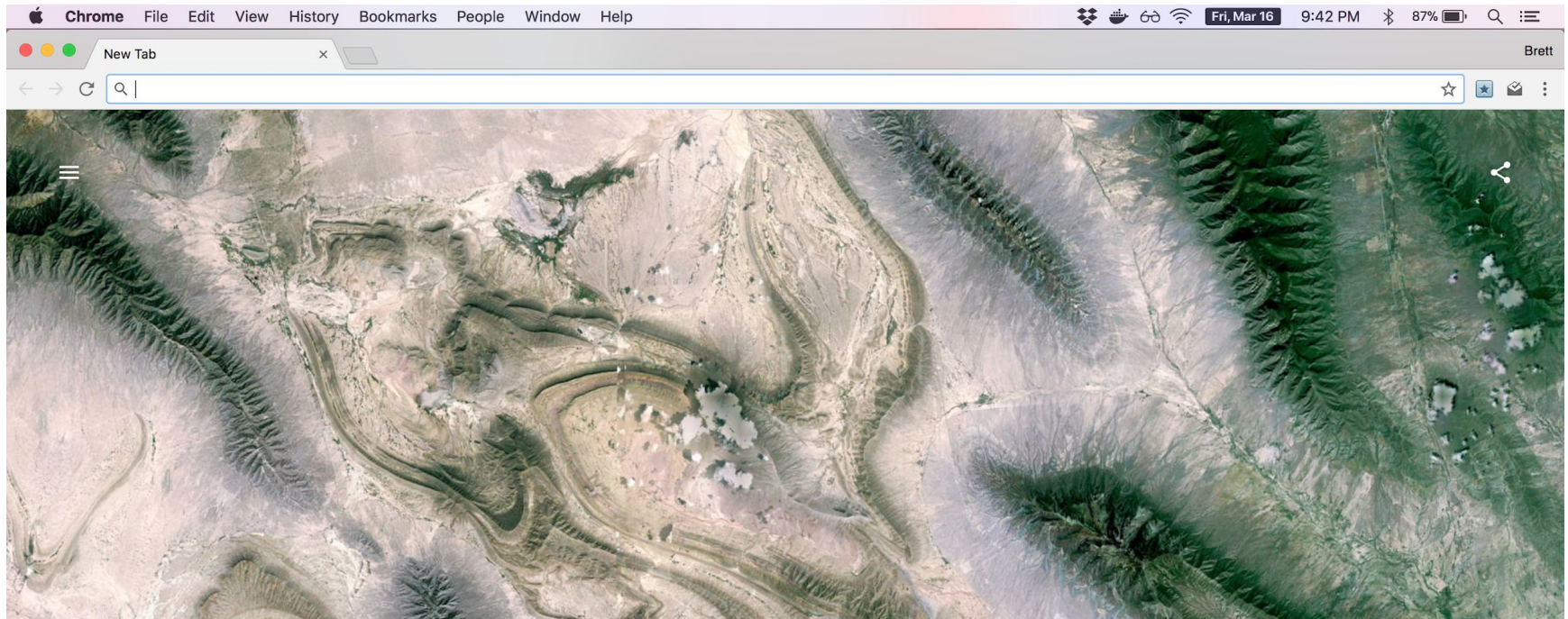


- Save the file



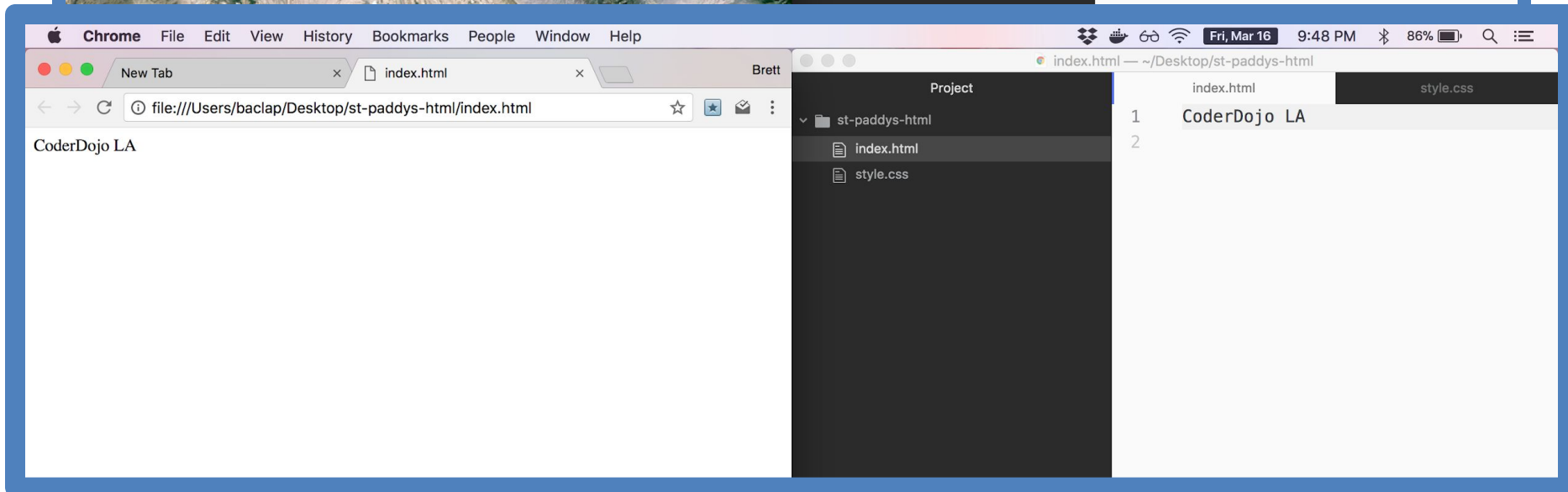
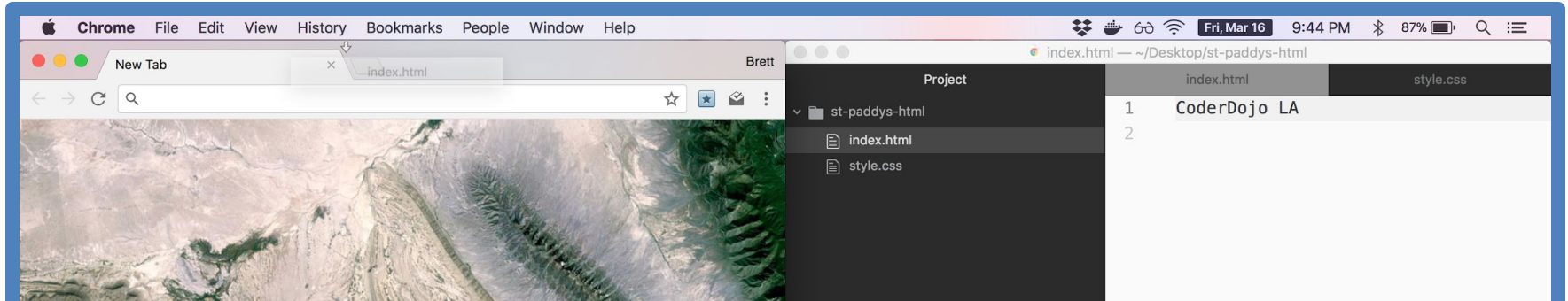
# Open Your Browser

- Open your web browser (Chrome)



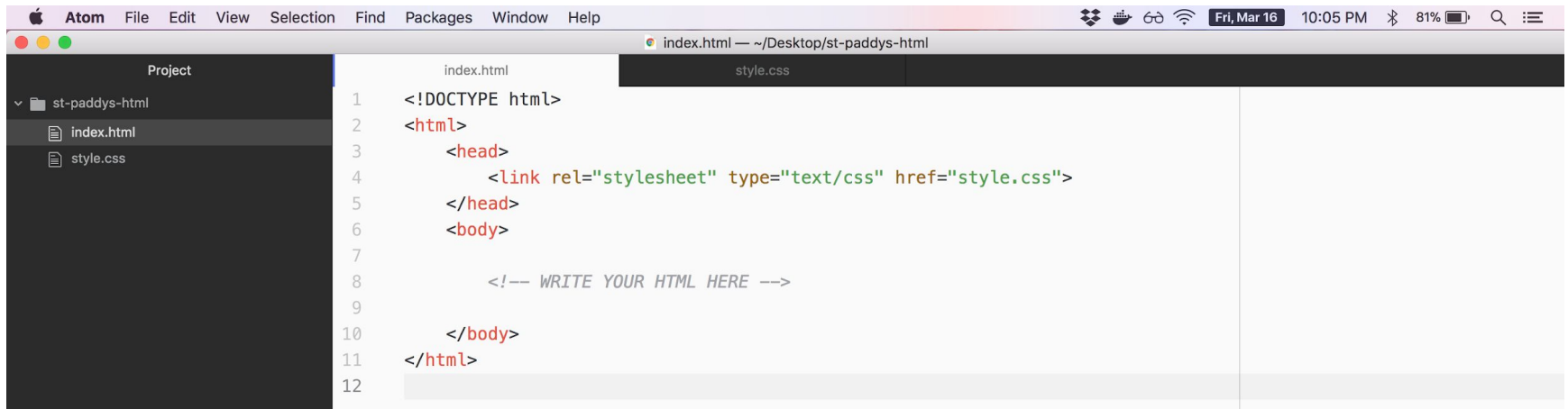
# Open index.html

- Drag your **index.html** file into Chrome



# Base HTML Code

- Go to <http://bit.ly/base-html-code>
- Copy the text into your **index.html** file

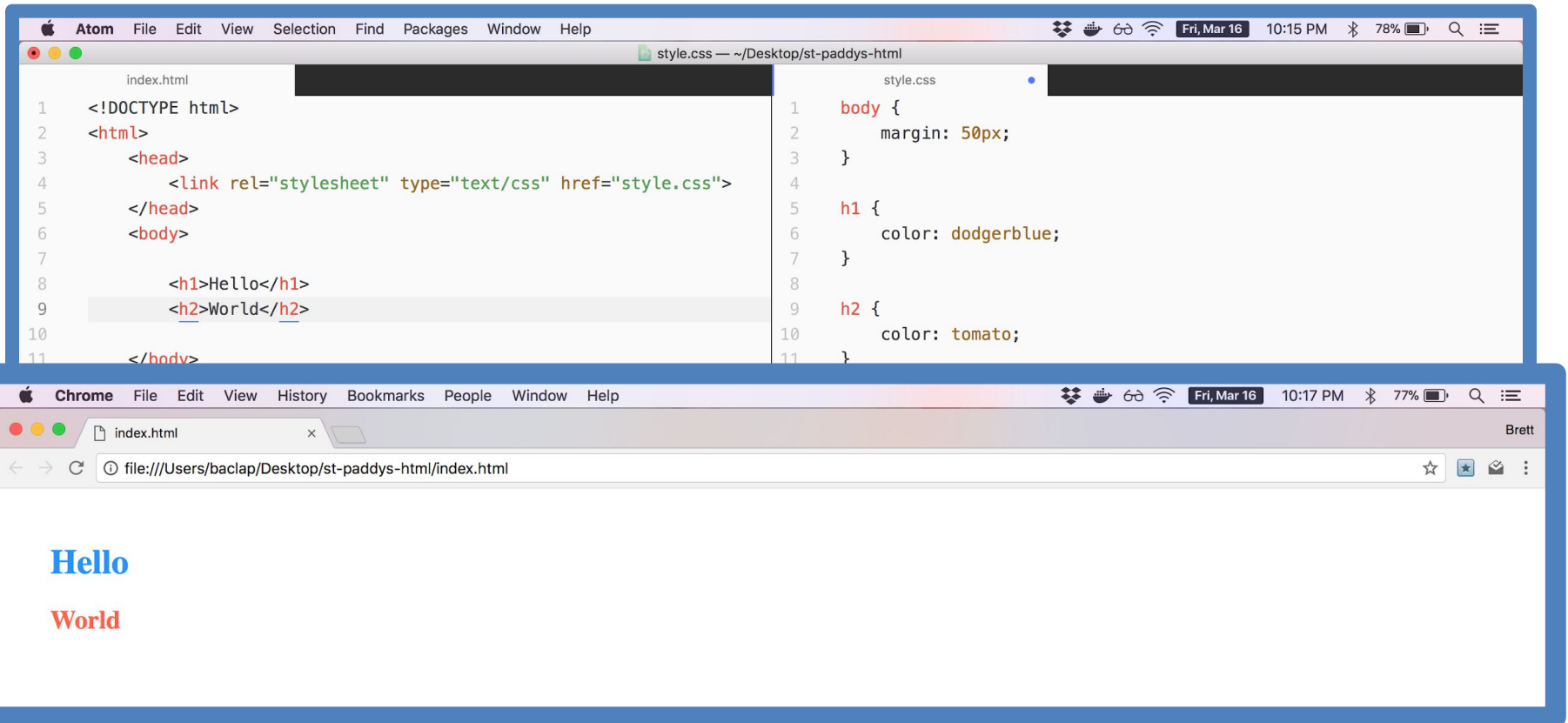


The screenshot shows the Atom code editor interface. The left sidebar displays a project named 'st-paddys-html' with files 'index.html' and 'style.css'. The main editor area shows the 'index.html' file with the following code:

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <link rel="stylesheet" type="text/css" href="style.css">
5   </head>
6   <body>
7
8     <!-- WRITE YOUR HTML HERE -->
9
10  </body>
11 </html>
12
```

# HTML + CSS

- Add **<h1>** and **<h2>** to your **index.html** file
- Add color styles to your **style.css** file



# Begin Clover Leafs

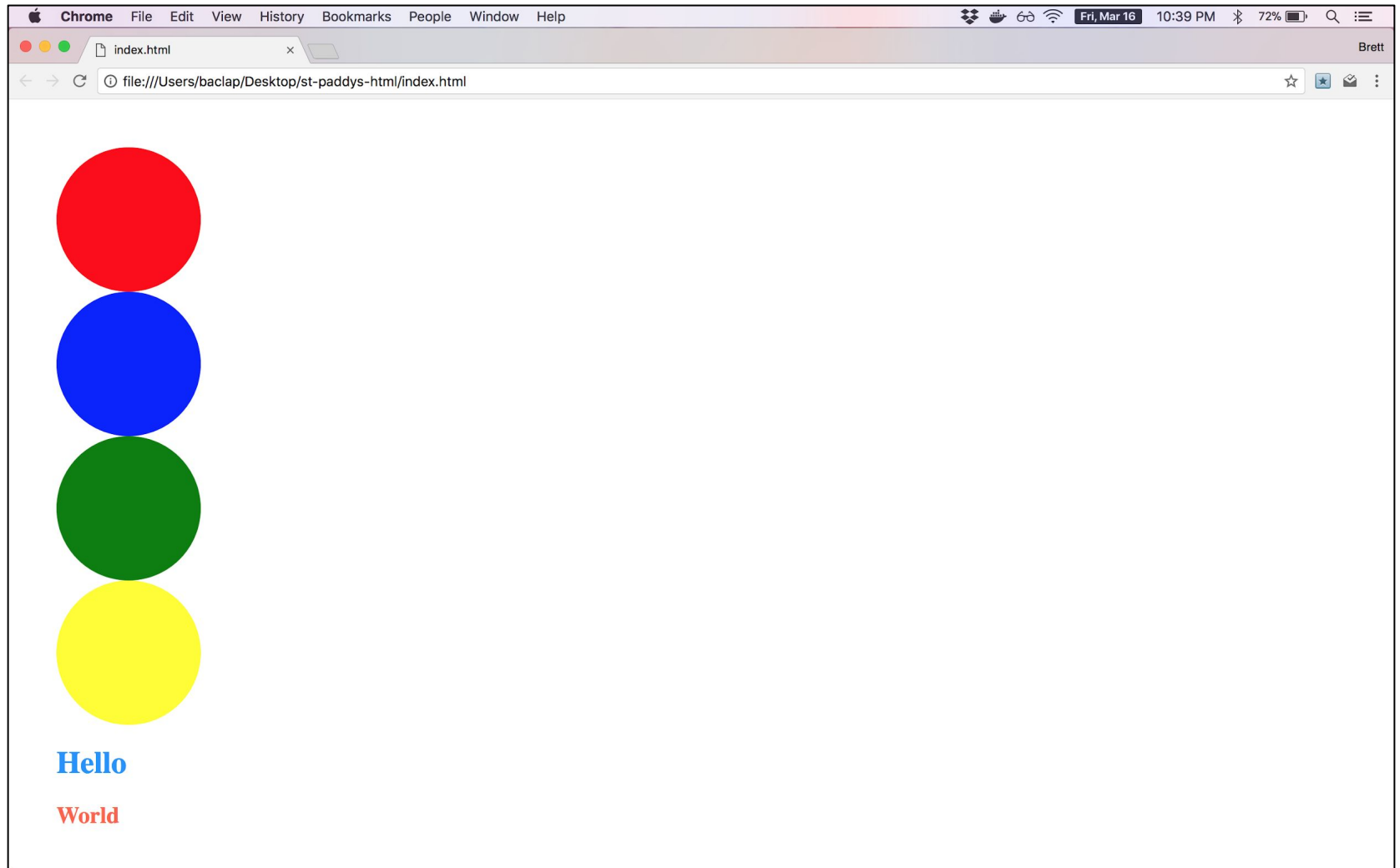
```
Atom  File  Edit  View  Selection  Find  Packages  Window  Help
index.html — ~/Desktop/st-paddys-html

index.html
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <link rel="stylesheet" type="text/css" href="style.css">
5    </head>
6    <body>
7
8      <div id="clover-wrap">
9        <div id="clover-leaf-top-left"></div>
10       <div id="clover-leaf-top-right"></div>
11       <div id="clover-leaf-bottom-left"></div>
12       <div id="clover-leaf-bottom-right"></div>
13     </div>
14
15     <h1>Hello</h1>
16     <h2>World</h2>
17
18   </body>
19 </html>
20

style.css
11 }
12
13 #clover-wrap {
14 }
15
16 #clover-leaf-top-left {
17   background: red;
18   border-radius: 100%;
19   width: 150px;
20   height: 150px;
21 }
22
23 #clover-leaf-top-right {
24   background: blue;
25   border-radius: 100%;
26   width: 150px;
27   height: 150px;
28 }
29
30 #clover-leaf-bottom-left {
31   background: green;
32   border-radius: 100%;
33   width: 150px;
34   height: 150px;
35 }
36
37 #clover-leaf-bottom-right {
38   background: yellow;
39   border-radius: 100%;
40   width: 150px;
41   height: 150px;
42 }
43
```



# Begin Clover Leafs (Result)



# Position Clover Leaves

- **#clover-leaf-top-left** gets a **top** and **left** style of 0
- **#clover-leaf-top-right** gets a **top** and **right** style of 0
- **so on..**

```
#clover-wrap {  
  position: relative;  
  width: 300px;  
  height: 300px;  
  margin: 0 auto;  
}
```

```
#clover-leaf-top-left {  
  position: absolute;  
  top: 0;  
  left: 0;  
  background: red;  
  border-radius: 100%;  
  width: 150px;  
  height: 150px;  
}
```

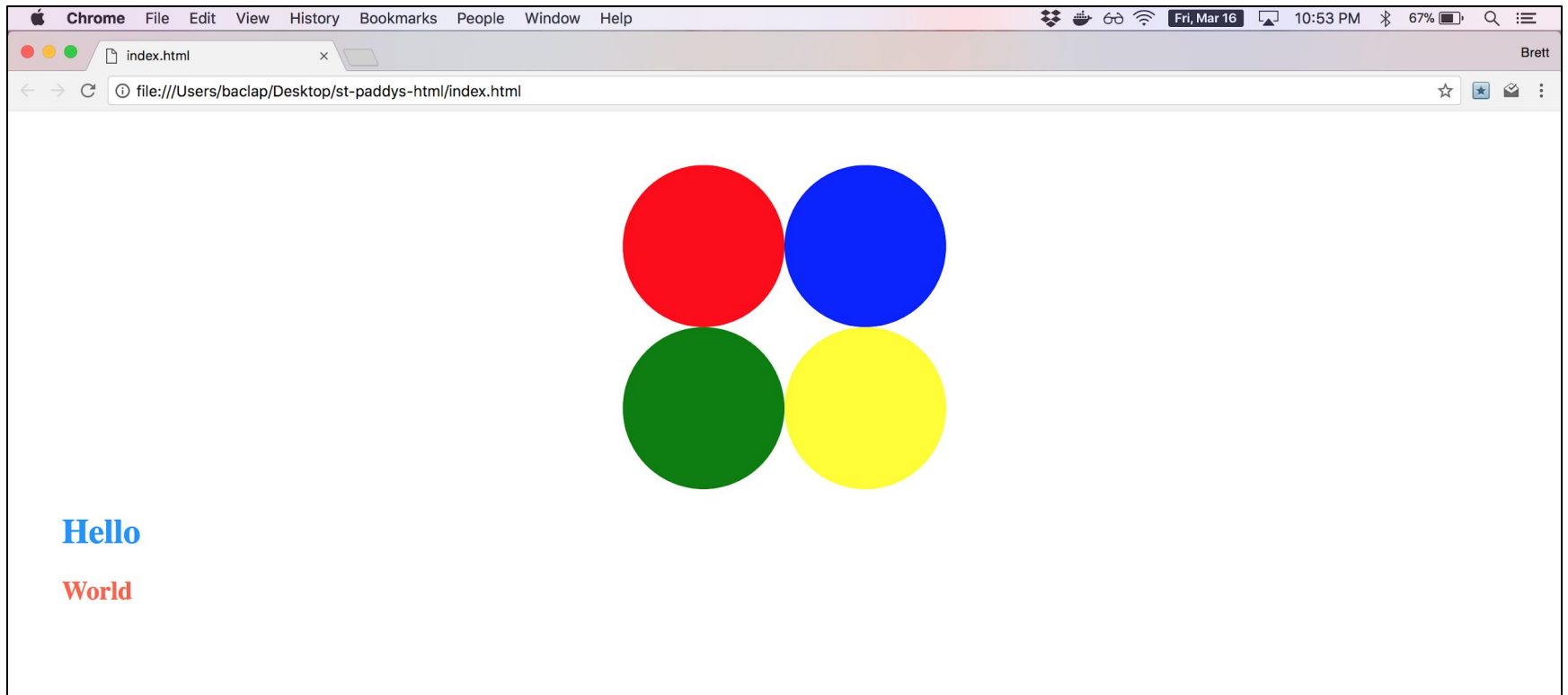
```
#clover-leaf-top-right {  
  position: absolute;  
  top: 0;  
  right: 0;  
  background: blue;  
  border-radius: 100%;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-bottom-left {  
  position: absolute;  
  bottom: 0;  
  left: 0;  
  background: green;  
  border-radius: 100%;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-bottom-right {  
  position: absolute;  
  bottom: 0;  
  right: 0;  
  background: yellow;  
  border-radius: 100%;  
  width: 150px;  
  height: 150px;  
}
```



# Position Clover Leafs (Result)



# Cloverify

- **#clover-leaf-top-left** gets **border-bottom-right-radius: 0**
- **#clover-leaf-top-right** gets **border-bottom-left-radius: 0**
- **so on..**

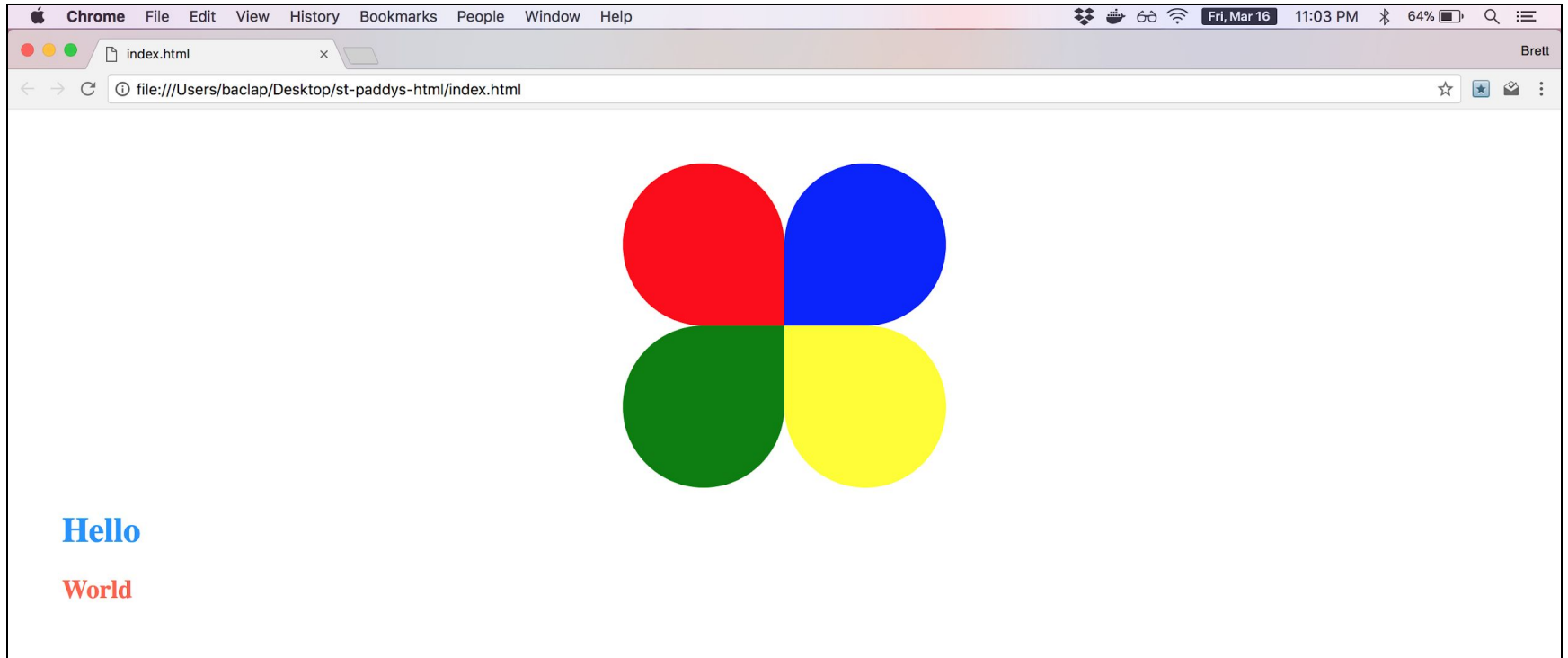
```
#clover-leaf-top-left {  
  position: absolute;  
  top: 0;  
  left: 0;  
  background: red;  
  border-radius: 100%;  
  border-bottom-right-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-top-right {  
  position: absolute;  
  top: 0;  
  right: 0;  
  background: blue;  
  border-radius: 100%;  
  border-bottom-left-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-bottom-left {  
  position: absolute;  
  bottom: 0;  
  left: 0;  
  background: green;  
  border-radius: 100%;  
  border-top-right-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-bottom-right {  
  position: absolute;  
  bottom: 0;  
  right: 0;  
  background: yellow;  
  border-radius: 100%;  
  border-top-left-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

# Cloverify (Result)



# Color Correction

- (**<angle>**, **<color>** **<percentage>**, **<color>**)
- **angle** determines the direction of the gradient
- **percentage** alters the point at which the gradient begins

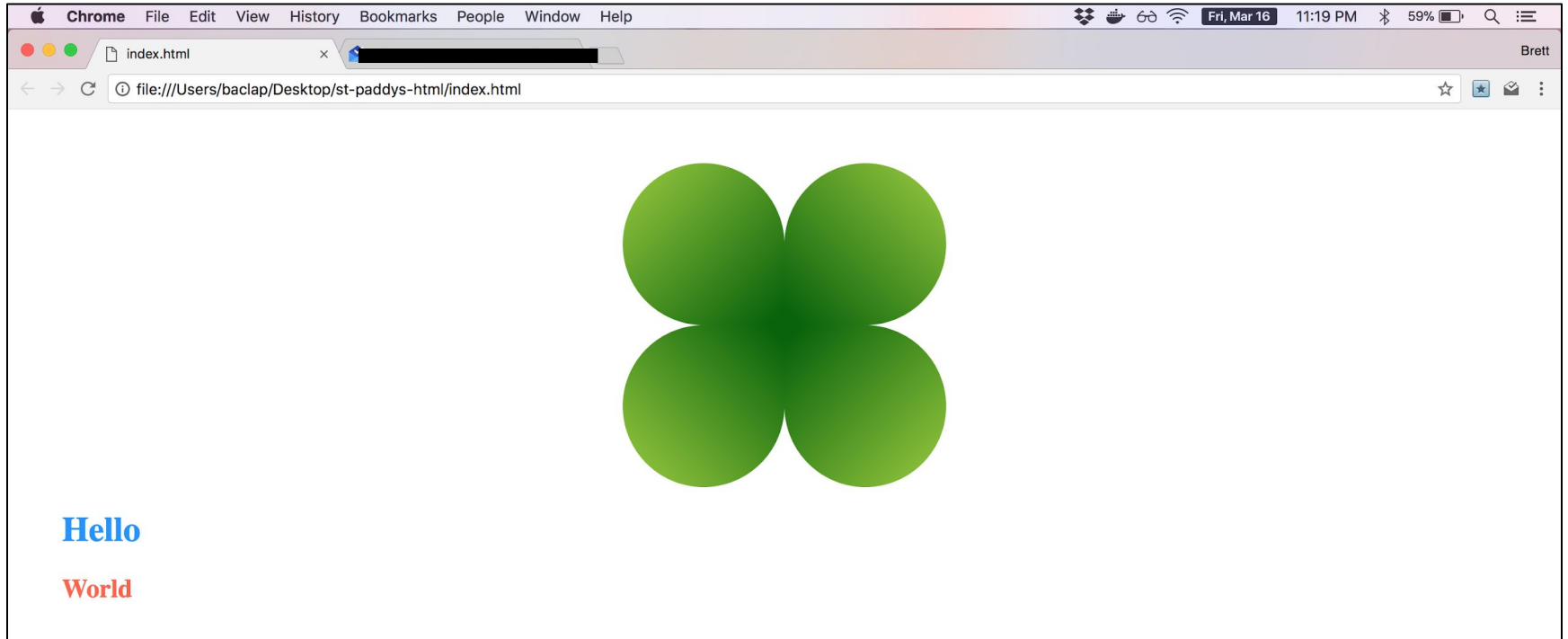
```
#clover-leaf-top-left {  
  position: absolute;  
  top: 0;  
  left: 0;  
  background: linear-gradient(-45deg, darkgreen 5%, yellowgreen);  
  border-radius: 100%;  
  border-bottom-right-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-top-right {  
  position: absolute;  
  top: 0;  
  right: 0;  
  background: linear-gradient(45deg, darkgreen 5%, yellowgreen);  
  border-radius: 100%;  
  border-bottom-left-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-bottom-left {  
  position: absolute;  
  bottom: 0;  
  left: 0;  
  background: linear-gradient(225deg, darkgreen 5%, yellowgreen);  
  border-radius: 100%;  
  border-top-right-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

```
#clover-leaf-bottom-right {  
  position: absolute;  
  bottom: 0;  
  right: 0;  
  background: linear-gradient(135deg, darkgreen 5%, yellowgreen);  
  border-radius: 100%;  
  border-top-left-radius: 0;  
  width: 150px;  
  height: 150px;  
}
```

# Color Correction (Result)

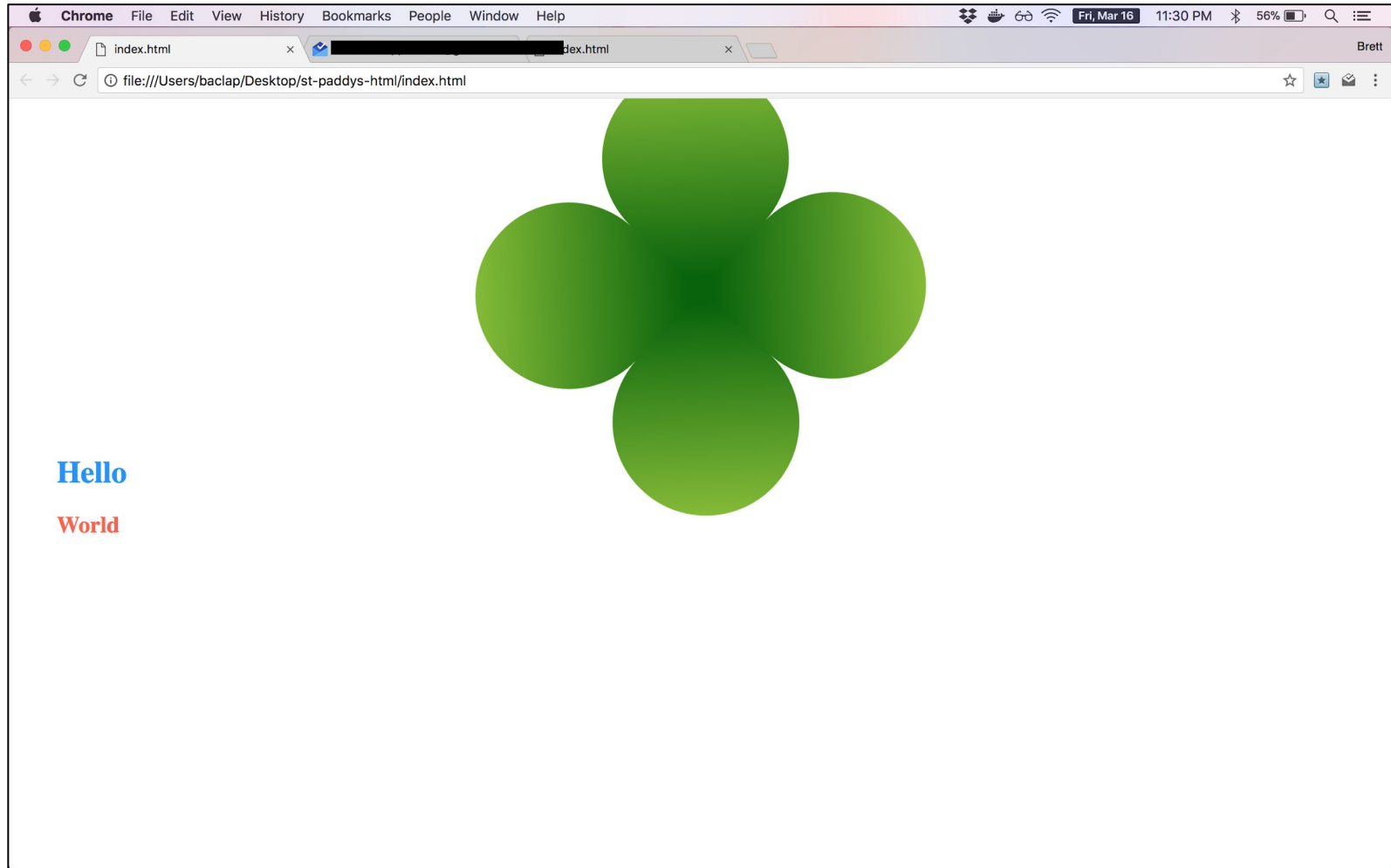


# Animation

- **:hover** is a “pseudo-class”
- it applies the spin animation only when your mouse is hovering **#clover-wrap**

```
@keyframes spin {  
  0% {  
    transform: rotate(0deg) scale(1);  
  }  
  25% {  
    transform: rotate(90deg) scale(1.2);  
  }  
  50% {  
    transform: rotate(180deg) scale(1.4);  
  }  
  75% {  
    transform: rotate(270deg) scale(1.2);  
  }  
  100% {  
    transform: rotate(360deg) scale(1);  
  }  
}  
  
#clover-wrap:hover {  
  animation-name: spin;  
  animation-duration: 1.5s;  
  animation-timing-function: linear;  
  animation-iteration-count: infinite;  
}
```

# Animation (Result)



# Make It Your Own!

- Add your own text with new `<h1>`, `<h2>`, `<h3>`, or `<p>` tags
- Add a **background** color to the **body**
  - Find colors at <https://htmlcolorcodes.com/>
- Add more translate rules to your animation such as **translateX(50px)** and/or **translateY(50px)**