

Dashboard Circle Rotate

Development

November 26, 2019

Overview

This document is intended to explain how I developed the rotating the SVG Icons.

Steps (Pseudo Code)

1. **Download the SVG icons and group them:** Upon downloading the SVG icons, I grouped the multiple svg icons into one svg icon by color.
 - a. yellow-circle.svg (consists of all svgs related to yellow circle)
 - b. red-circle.svg (consists of all svgs related to red circle)
 - c. orange-circle.svg (consists of all svgs related to orange circle)

Upon grouping them, I assign a specific ID for every specific circle (outer-circle, middle graph etc).

I used this [tool](#) to group them as export as SVG.

2. **Setup VS code for the actual coding:** This is the directory structure I initially created.

```
.
├── assets
│   ├── orange-circle.svg
│   ├── red-circle.svg
│   └── yellow-circle.svg
├── css
│   ├── normalize.min.css
│   └── styles.css
├── index.html
└── js
```

```

├── main.js
└── README.md

3 directories, 8 files

```

3. **Create index.html:** I used this [boilerplate](#) to structure my index.html and its DOM.
4. **Create css:** the css files consists of styles.css and normalize.min.css. **styles.css** is for my custom page layout and animation itself, whereas the **normalize.min.css**, which I downloaded via CDN is for cross browser consistency for default html styling.
5. **Create javascript:** The javascript file main.js is just for event trigger. Once you clicked the button, the circle will animate by assigning the css class for animation.
6. **Add SVG circles to html:** The svg circle files are added in index.html with its specific id attributes.

HTML Code Snippet

```

<body>
  <div class="container">
    <!-- Red SVG circle -->
    <svg width="300" height="242" viewBox="0 0 300 242" fill="none"
xmlns="http://www.w3.org/2000/svg">
      <g id="red-whole-circle">
        <g id="red-inner-circle">
          <g id="red-inner-circle-icons">
            <g id="-red inner-circle-graph">
              <path id="Line" d="M114.5 188.5L88.0969 232.963"
stroke="white" stroke-linecap="square" />
              <path id="Rectangle" d="M91.528 240.756L96.7885
229.97L86.0029 224.71L80.7425 235.496L91.528 240.756Z"
stroke="#F26521" />
              <path id="Oval"
d="M86.9679 231.856C86.4837 232.849 86.896 234.046
87.8887 234.531C88.8815 235.015 90.0789 234.603 90.5631 233.61C91.0473
232.617 90.635 231.42 89.6422 230.935C88.6494 230.451 87.4521 230.863

```

```

86.9679 231.856Z"
        fill="#F26521" />
    ...
</svg>
<!-- Yellow SVG circle -->
    ... Truncated
<!-- Orange SVG circle -->
    ... Truncated
</div>
<!-- ./container -->

<!-- This button is intended to show animation in the circle -->
<input type="button" onclick="animateCircle()" value="Rotate"></input>

<!-- This js is for handling the event button to animate -->
<script src="js/main.js"></script>
</body>

```

7. **Animate using css:** The method I used for rotating the circles is CSS animations. Using @keyframes and the animation properties.

CSS Code snippet

```

/*
    Note this animation code is not final.
*/

.rotate {
    animation: loadRotate 2s infinite linear;
    transform-origin: center;
    transform-box: fill-box;
}

@keyframes loadRotate {
    from {
        transform: rotateZ(0deg);
    }
}

```

```
}  
to {  
  transform: rotateZ(360deg);  
}  
}
```

8. **Rotate the circle on button click using javascript.** Created a button with onclick function. Upon click, I assign the **.rotate css class** to svg circle id to rotate.
9. **Render the html to browser.** I used to python's simple http server to create a localhost server and serve the html.

