Rems

I call `rem` , the root `em` . Assuming the "r" comes from the word, "root". While this may not be the general way people describe the `rem` unit, it will help you form great mental models.

The `em` unit scales against the font-size of the parent element, BUT the `rem` unit will only scale against the `root` element.

The `root` element here is usually, the `html` element.

Let's see an example:

If you wrote this:

```
html {
    font-size: 14px;
}
```

Anywhere in your style where you use the `rem` unit, it will scale against the `14px` you have set on the `root` element i.e `html`

Bring back the markup used earlier:

```
<!DOCTYPE>
<html>
  <head>
    <title>
      The Problem with the EM unit.
    </title>
  <head>
    <body>
      <div class="one">
          One Hello World!
          <div class="two">
              Two Hello World
              <div class="three">
              Three Hello World
              </div>
          </div>
```

```
        </div>
      </body>
</html>
```

Regardless of the font-size you use, the nested elements will only scale against the root element.

```
.one {
    font-size: 1.5rem
}
```

The font-size here would be 1.5 * 14px. i.e 21px.

And this:

```
.two {
    font-size: 1.5rem
}
```

Yes, the same thing. 1.5 * 14px. i.e 21px.

The same goes for `.three`.

No weird behaviour, right?