

# Web 3: Stylizing Your Prototype

2016.10.12 PUI lab

Full slides: <http://www.siyanz.com/2016PUI/slides/lab-7>

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## Announcements

- Questions on Assignment 4?
- Office Hours: 3 - 5 pm NSH 4501

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# Today

- Feedback on Assignment 2
- CSS Position Shenanigans
- Centering Elements

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## Assignment 2 Feedback

- Everyone did a great job on the InVision Prototypes!
- Make sure the user can go back to the main screen from any screens.

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# CSS Position Shenanigans

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## Position

```
position: static/relative/absolute;
```

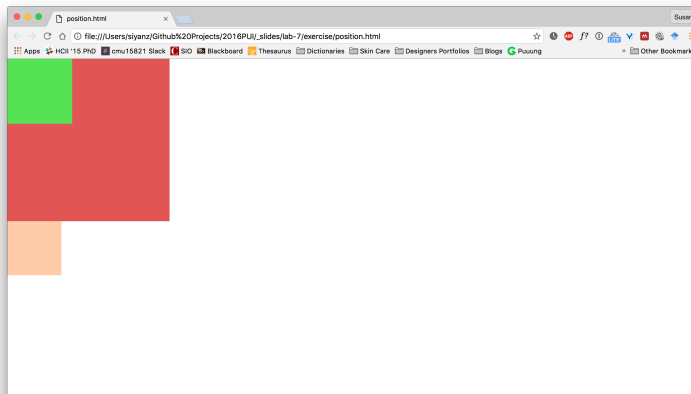
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# Example boxes

```
<div class="containerBox">
  <div class="outer red">
    <div class="inner green">
    </div>
  </div>
</div>
</div>
```

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# Default: static



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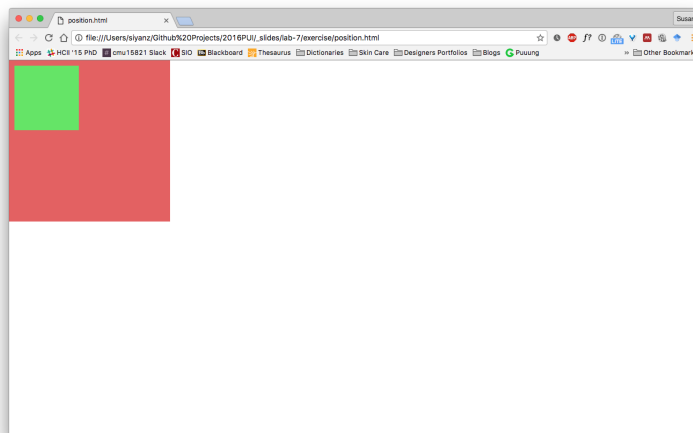
# Fixed Position

```
<div class="inner green fixed"></div>
```

```
/* fix the position of the box relative to the window */  
.fixed {  
  position: fixed;  
  /* bottom, top, left, right defines the object's position */  
  top: 10px;  
  left: 10px;  
}
```

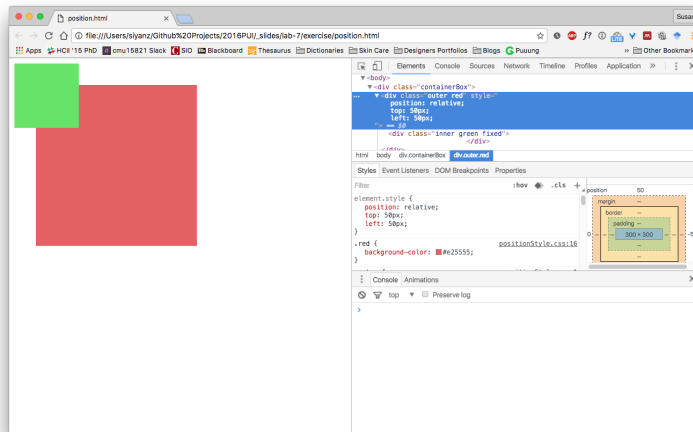
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# Fixed Position



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When the red square moves, the green stays at the same place.



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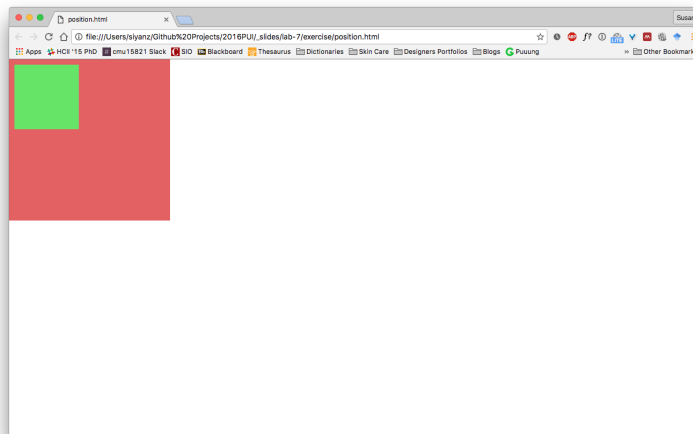
## Relative Position

```
<div class="inner green relative"></div>
```

```
/* fix the position of the box relative to the window */
.relative {
  position: relative;
  /* bottom, top, left, right defines the object's position */
  top: 10px;
  left: 10px;
}
```

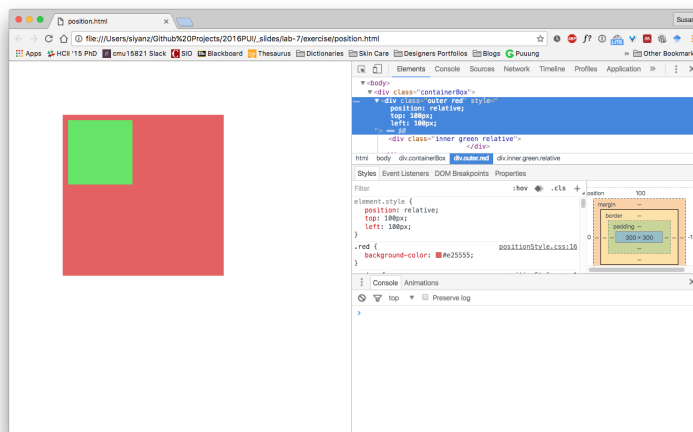
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# Relative Position



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When the red square moves, the green square stays inside the red square at the same spot



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Yay! we are done with CSS positions!

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I wish...

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# Absolute position

- This is where complications come in

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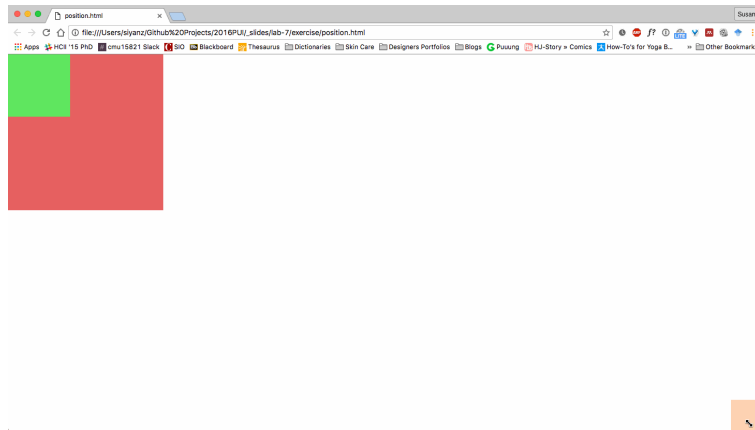
## Remember fixed position?

- Orange object has fixed position

```
<div class="containerBox">
  <div class="outer red">
    <div class="inner green">
      <div class="mini orange fixed">
      </div>
    </div>
  </div>
</div>
```

```
.fixed {
  position: fixed;
  bottom: 0;
  right: 0;
}
```

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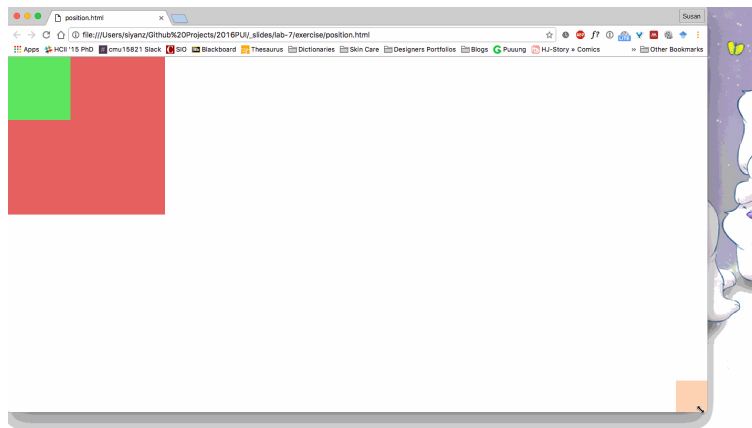


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What happens if it has an absolute position?

```
.absolute {  
  position: absolute;  
  bottom: 0;  
  right: 0;  
}
```

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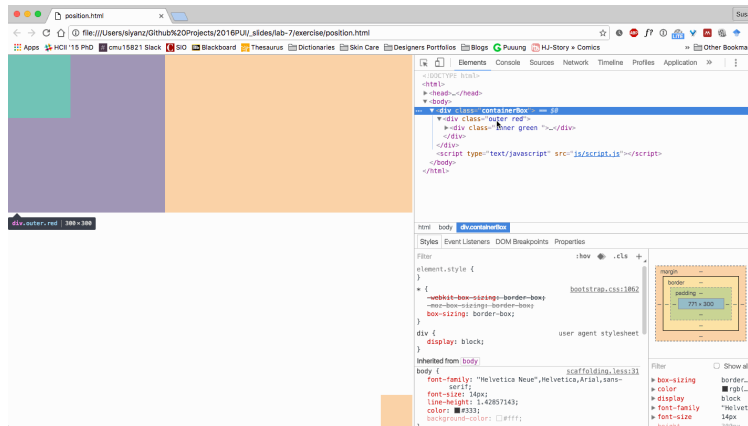


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But when I change the red square to relative position

```
<div class="containerBox">
  <div class="outer red relative">
    <div class="inner green">
      <div class="mini orange absolute">
      </div>
    </div>
  </div>
</div>
```

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## Absolute Position

- Behaves like:
  - fixed* when none of its parent or parent's parent or parent's parent... is relative
  - relative* when one of its ancestry is relative

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Why do we care about these positions?

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Combine them to make different layouts

```
<div class="containerBox">  
  <div class="leftMenu">  
    <ul>  
      <li> PUI </li>  
      <li> SUII </li>  
    </ul>  
  </div>  
  <div class="mainContent">  
    <p> Lorem ipsum </p>  
  </div>  
</div>
```

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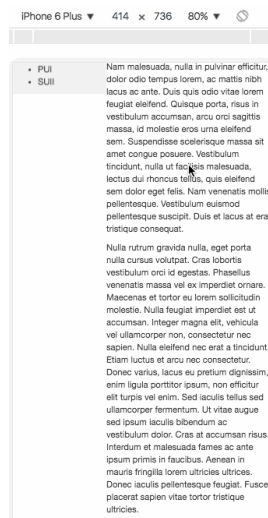
```

.leftMenu {
  position: fixed;
  left: 0;
  top: 0;
  width: 150px;
  background-color: #eee;
}

.mainContent {
  position: relative;
  margin-left: 150px;
}

```

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## Centering using positions

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## Centering is super super tricky in css

- To give you a sense: <http://www.tipue.com/blog/center-a-div/>

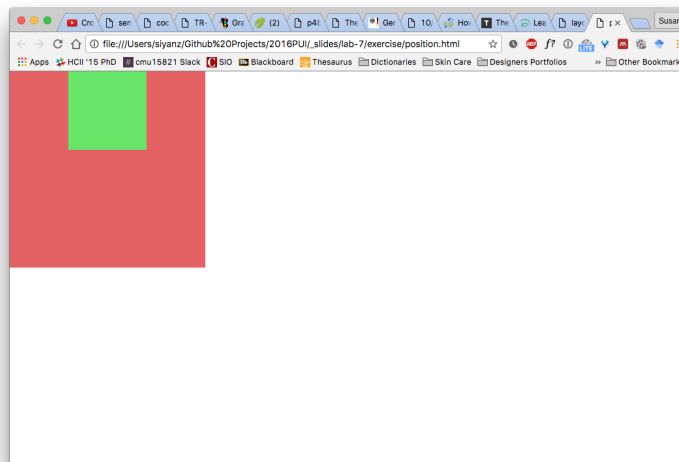
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# Margin: 0 auto

- Back to our red and green boxes: center green in red

```
.center {  
  margin: 0 auto;  
}
```

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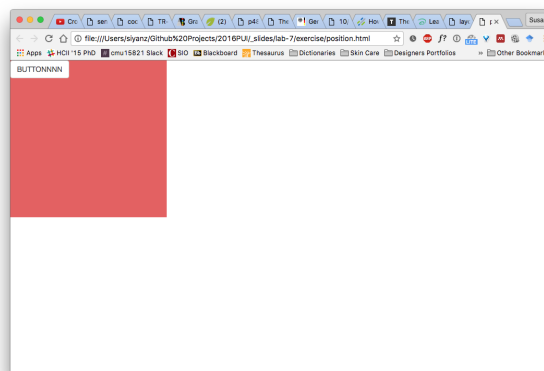
Cool! So I can use that to center a button!

```
<div class="containerBox">
  <div class="outer red">
    <button class="btn btn-default center">BUTTONNNN
  </button>
</div>
</div>
```

```
.center {
  margin: 0 auto;
}
```

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Nope!

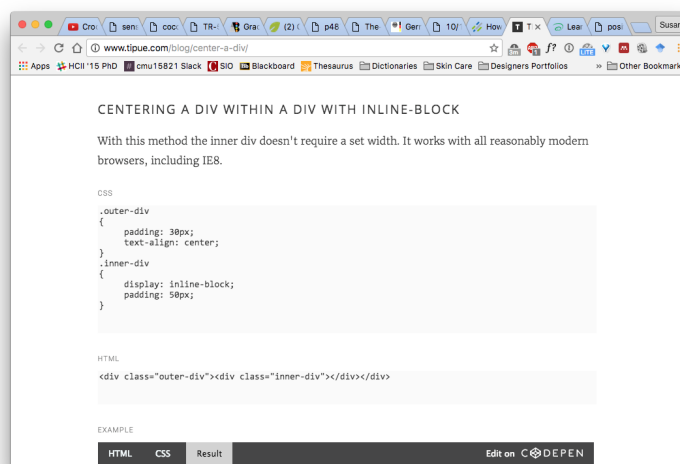


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# Cause button has a style: inline-block

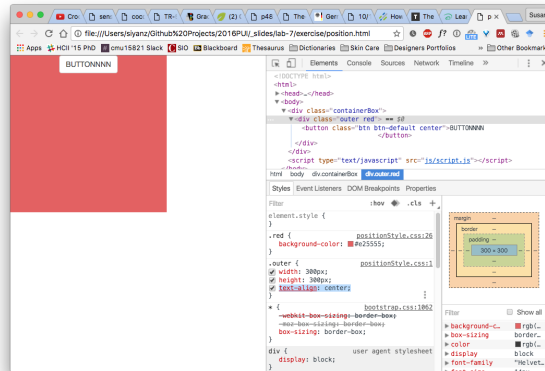
```
.btn {  
  display: inline-block;
```

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```
.outer {  
  width: 300px;  
  height: 300px;  
  text-align: center;  
}
```



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## JQuery Animation

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# JQuery effects

- Details here: <https://api.jquery.com/category/effects/>
- For some examples, see code in folder: animation

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# Rest of the class: work session

- Base on Assignment 3, think about how you want to improve the style of your prototype
- How you want the layout to be?
- What kind of animation do you want?

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