WEEK 4 | PROGRAMMING CSS POSITIONING

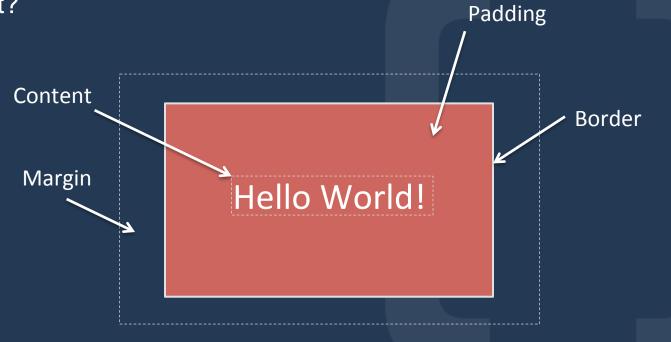
Shawn Park & Jeff Zhan





Review

We learned about the CSS Box Model. What are the 4 components of it?



Today's Outline

- 1. CSS Positioning
- 2. CSS Floats

Goal Today: To Structure your Web Pages Even Better

CSS Positioning

CSS Positioning

- 4 types of positioning in CSS:
 - position: static
 - position: relative
 - position: absolute
 - position: fixed
- By default, all your divs and elements are position: static

position: static

- Default position, follows the natural flow of the page
- Cannot use offsets: top, left, bottom, right





position: relative

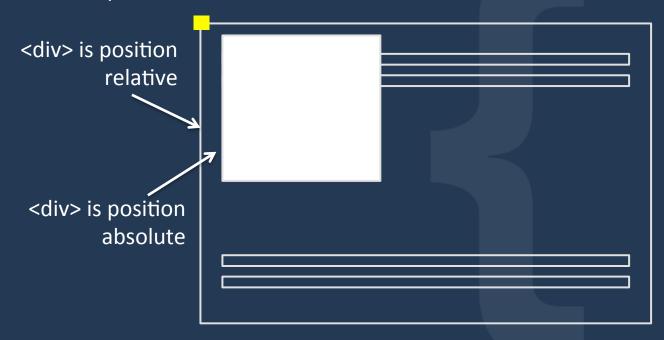
Offsets element using position values (top, left, right, bottom)



Example: Set top to -10px, left to -10px



Element is moved relative to <u>first non-static parent</u> (default: top: 0, left: 0)



Example: Set left to 10px, top to 5px

• Element is moved relative to <u>first non-static parent</u> element

```
<div id="container">
        <div id="content">
            Hello World!
        </div>
</div>
```

```
#container { position: relative; }
#content {
    position: absolute;
    top: 20px;
    left: 20px;
}
```

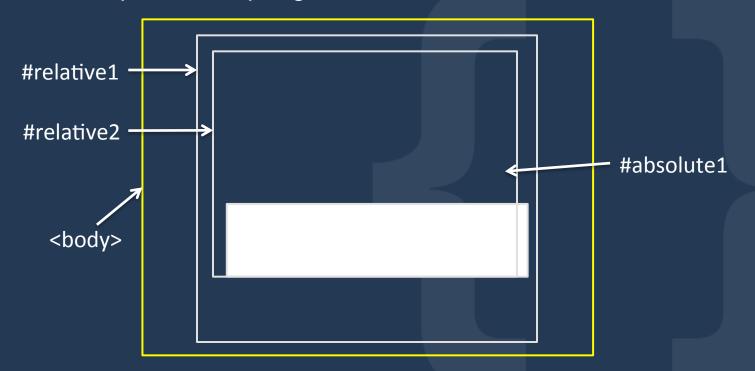
If no non-static parent element found, move relative to <body>

```
#content {
     position: absolute;
     top: 20px;
     left: 20px;
}
```

• Example of div relative to div relative to div (div-ception!!)

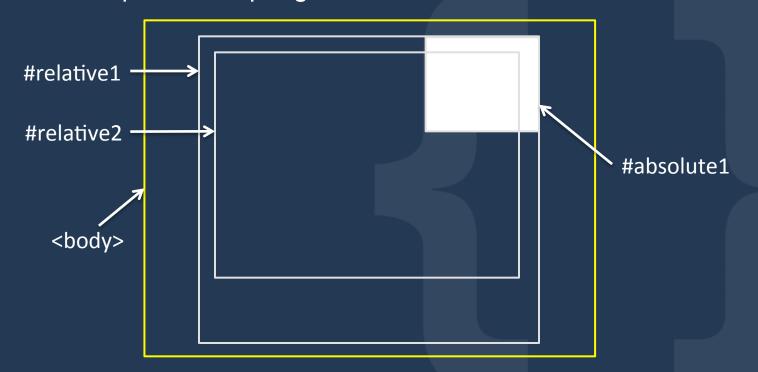
```
#container { position: relative; }
#content { position: absolute; top: 20px; left: 20px;}
#inner-content { position: absolute; top: 30px; left: 10px; }
```

What are possible top, right, bottom, left values for #absolute1?



#absolute1 is moved relative to #relative2.
So... bottom: 0, left: 5px (example)

What are possible top, right, bottom, left values for #absolute1?



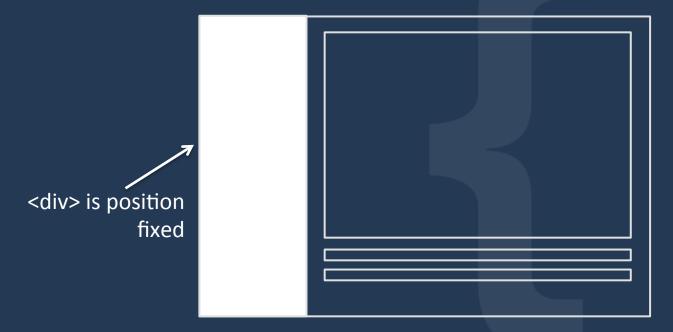
#absolute1 is moved relative to #relative1.
So... top: 0, right: 0 (don't even need to type px)

Demo



position: fixed

 Element stays on the screen, even when scrolling. Positioned relative to browser window

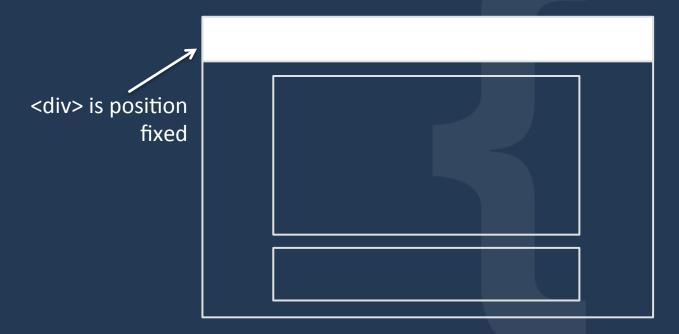


Example: Set left to 10px, top to 5px



position: fixed

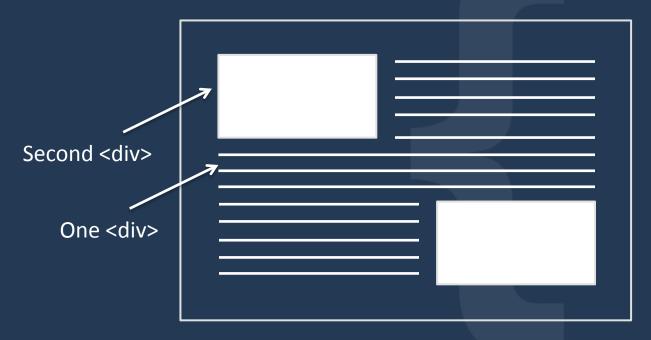
 Element stays on the screen, even when scrolling. Positioned relative to browser window



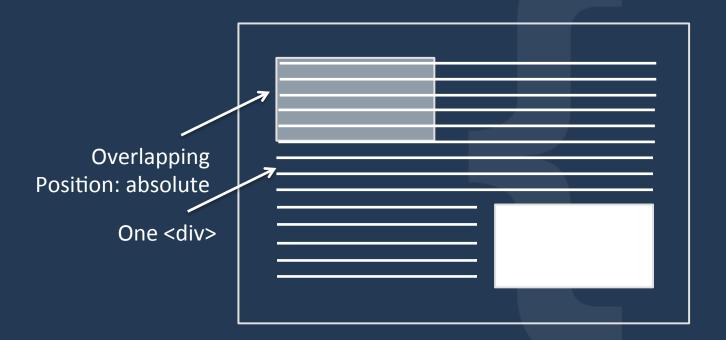


(ex: www.jsfiddle.net/r9M8Q)

- What is a float?
 - They allow your elements to be part of the flow on the page

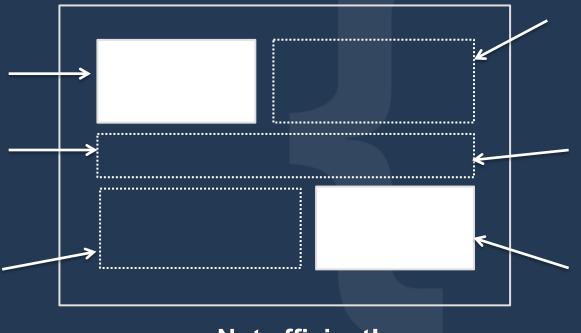


• If you made one div position: absolute...



(ex: www.jsfiddle.net/r9M8Q)

• If you were to recreate the page with <div> elements set to display: inline-block...



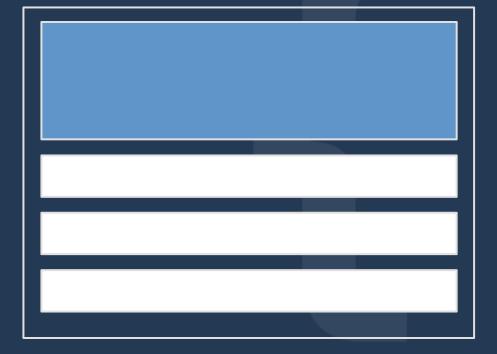
Not efficient!

(ex: www.jsfiddle.net/r9M8Q)

- float
 - 2 properties
 - float: left
 - float: right
- Even if an element is a <div> or has display: block, float will
 essentially bypass these properties and act like display: inline-block,
 but automatically floating left or floating right
- The following element will be next to the floated <div>

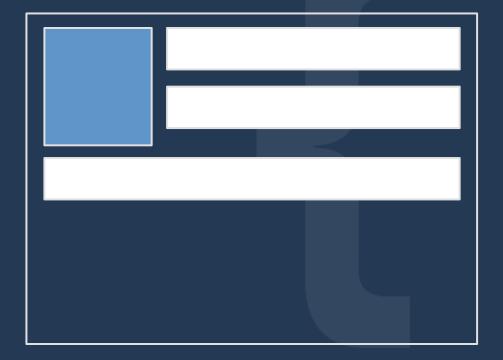
(ex: www.jsfiddle.net/r9M8Q)

No floats, just <div>



(ex: www.jsfiddle.net/r9M8Q)

First box, float: left





One Use Case: Menus

Home

About

Experiences

Contact

Floating Menu Items (each with set width)

Home About Experiences Contact

Notice no gaps!

If you use *display: inline-block* for these 4 elements:

Home About Experiences Contact

display: inline-block produces gaps on the sides



If you use *display: inline-block* for these 4 elements:

Home About Experiences Contact

display: inline-block produces gaps on the sides

- Work-around:
 - Add margin-right: -4px
 - Or...

<div>Home</div

- >About</div
- >Experiences</div
- >Contact</div>

Awkward! Use margin-right: -4px, or floats!

<div>Home</div><!--

--><div>About</div><!--

--><div>Experiences</div><!--

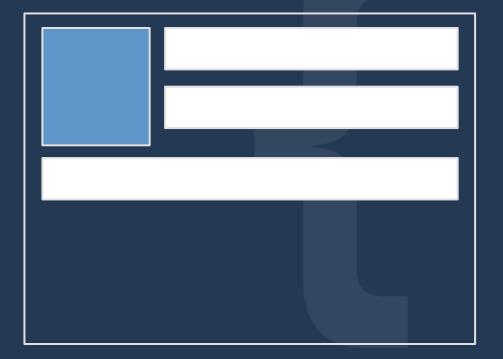
--><div>Contact</div>

CSS Clear

- clear
 - clear: both
 - Individually, clear: left and clear: right
- If one element floats left, the following element will appear beside it
- Use clear: both for the following element to break the float, so it appears below the floating element

CSS Clear

First box, float: left



CSS Clear

Second box, using clear: both



Summary

- 4 ways to position
 - static
 - relative
 - absolute
 - fixed
- 2 ways to float
 - left
 - right

All lecture material, handouts, and homework can be found at: http://www.thewebdesignworkshop.co