

WEB DESIGN DECAL

LECTURE 5

CSS Positioning and Floats

Or, how to align and orient elements on your website

Sad Announcement

This will be my last lecture for Web Design DeCal...

I've overcommitted this semester, so I'm not doing quality work. But it's been a great 2 years being involved with WDD.

Sad Announcement



I ❤️ you guys.

Positioning can be annoying.



Incredibly Helpful Resource

Want a primer of CSS positioning and more?

learnlayout.com

Motivation for CSS Positioning

So far we've talked about how elements stack next to one another. Haven't talked enough about when they overlap.

MESSAGES FOR JAPAN

WRITE YOUR MESSAGE OF SUPPORT



All messages have been automatically translated by Google Translate

Map data ©2013

AD MESSAGES

WORLD MAP

ABOUT

LANGUAGE:

ENGLISH

日本語

Share: [g+1](#) [f Like](#)

Beautiful interactive maps

WEB DESIGN DECAL



- Home
- About
- Directory
- Advertising
- Contact

We plant dreams
and ideas. Then grow
successful business models



Creative (vertical) navigation bars

[Run](#)[Fork](#)[Share](#)

Editor

≡

[CSS](#)

```
355  background-position: 100px 0; }  
356  40% { background-position: 440px 0; }  
357  100% { background-position: 440px 0; }  
358 }  
359  
360  
361 #slide div {  
362     transform: rotate(135deg);
```

[JS](#)

```
1 //You may also like Plugin  
2 /*alsolike(  
3 "LwlqI", "100 followers jel  
4 "nKCsi", "Semantic Sandwich  
5 "whxbF", "CSS Only Bending  
6 );*/
```



iPhone made of CSS + HTML

WEB DESIGN DECAL

4 Ways to position in CSS:

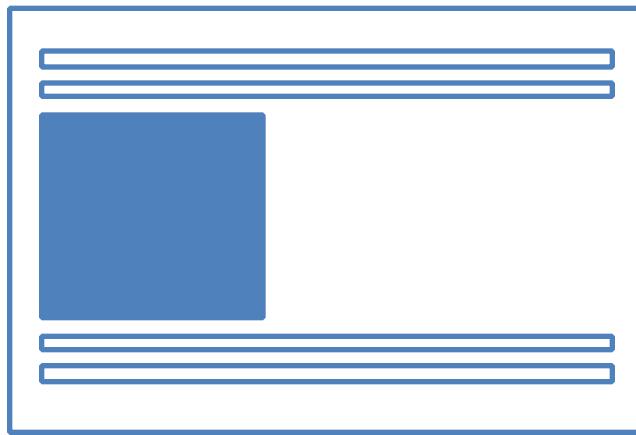
CSS Positioning - **position: static;**



CSS Positioning - `position: static;`

The default!

Cannot use offset properties: `top`, `bottom`, `right`, `left`



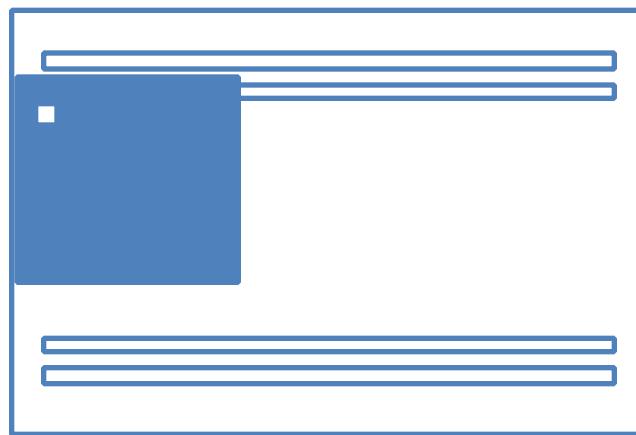
CSS Positioning - **position: relative;**



CSS Positioning - `position: relative;`

Behaves just like static unless you add extra properties:
top, bottom, right, left

Example: Set `top: -10px; left: -10px;`



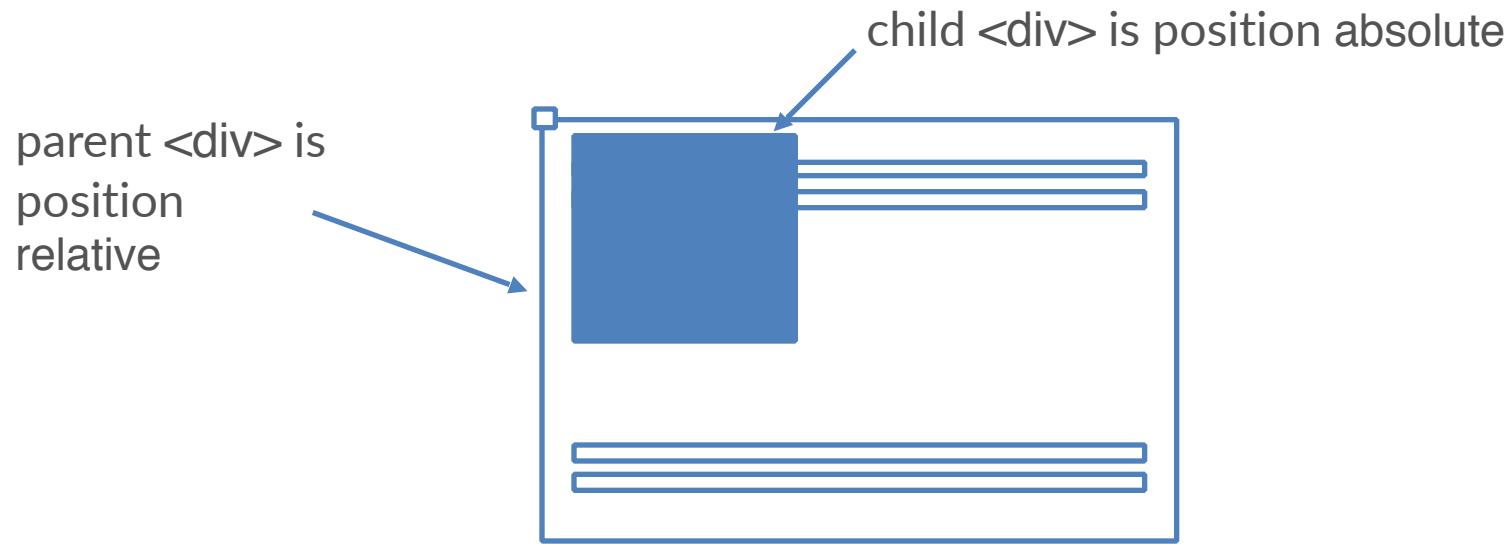
CSS Positioning - **position: absolute;**



CSS Positioning - **position: absolute;**

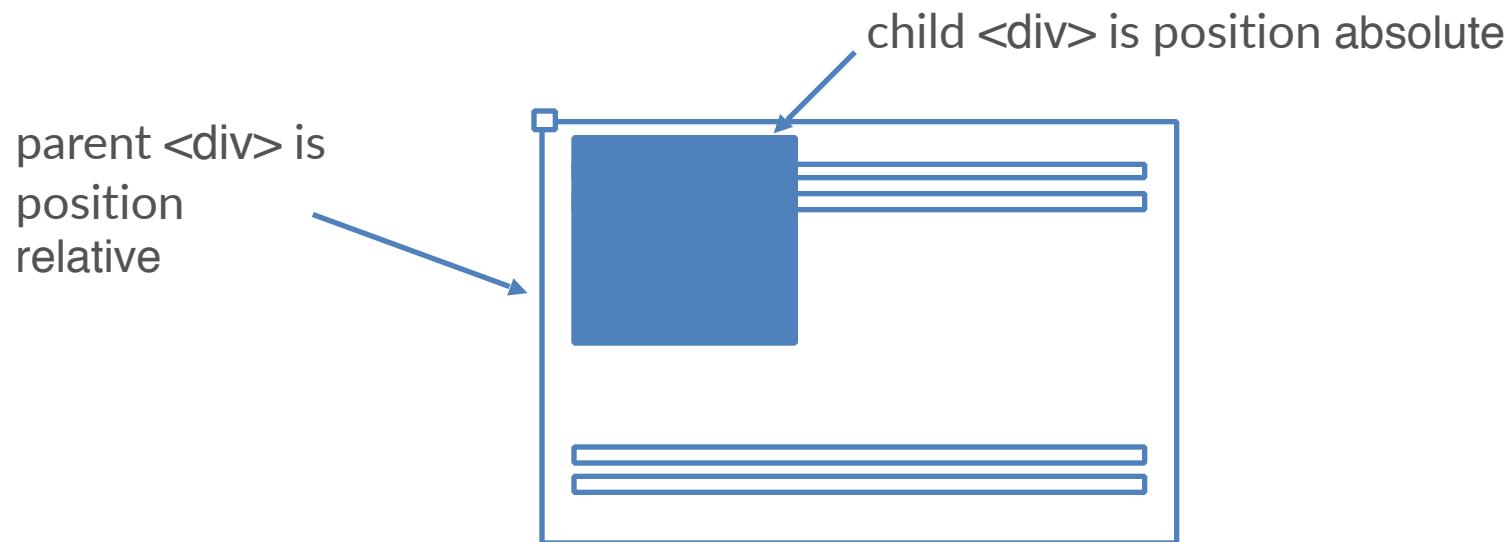
Element moved relative to first non-static parent

Example: Set **top: 5px; left: 10px;**



CSS Positioning - `position: absolute;`

Think of it as “rudely disregarding positioning of other elements” unless it’s the parent. Doesn’t disobey parent.



CSS Positioning - position: absolute;

Element is moved relative to first non-static parent element!

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

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

CSS Positioning - position: absolute;

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

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

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

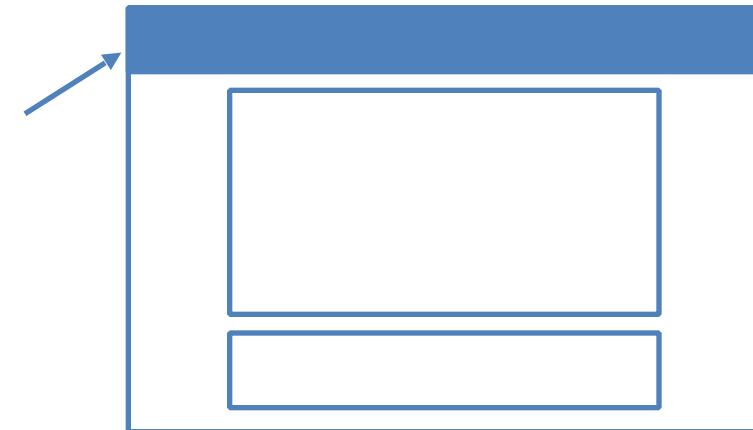
CSS Positioning - position: fixed;



CSS Positioning - **position: fixed;**

Simple: element stays, even when scrolling, relative to window
Think navigation bars!

<div> is position
fixed



CSS Positioning - Common confusion

Q: How do **top**, **left**, **right**, and **bottom** work with **margin-top**, **margin-left**, **margin-right**, and **margin-bottom**?

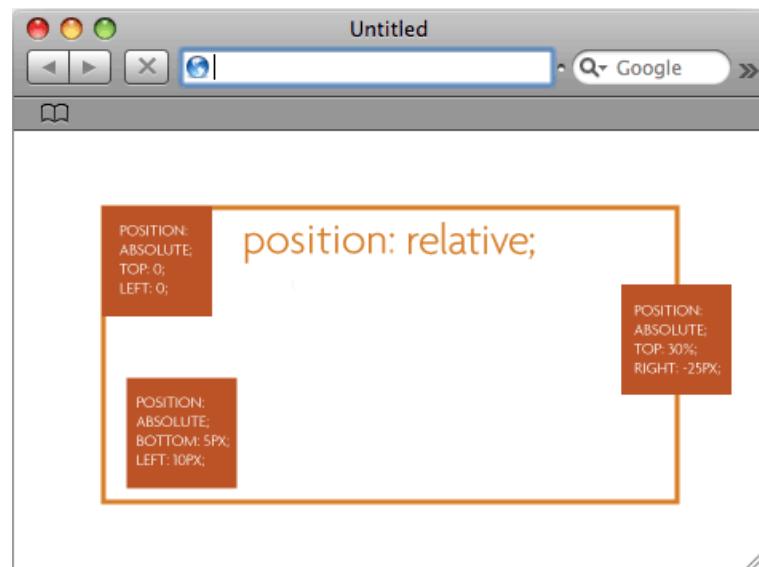
A: They work with each other. Non-static elements still follow the CSS box model, just have the new offset properties in addition.

CSS Positioning - Common practice

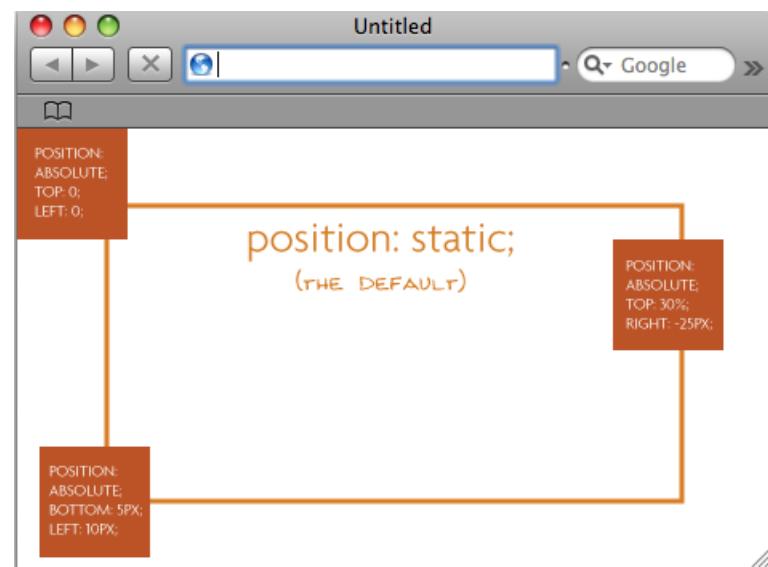
Q: What's a great practice for using these positioning rules?

A: Commit this to memory, dude. **Relative** parents with **absolute** children. This way, you have precise control of where the children go, even when the browser size changes.

CSS Positioning - Common practice



VS



CSS Positioning - z-index



CSS Positioning - z-index

Used to determine which layers are “on top of” other layers.

Can only be used on non-static elements!

(only for **position**: relative, **position**: absolute, and **position**: fixed)

Please control yourselves and keep z-index in reasonable range.

(i.e. **z-index**: 10)

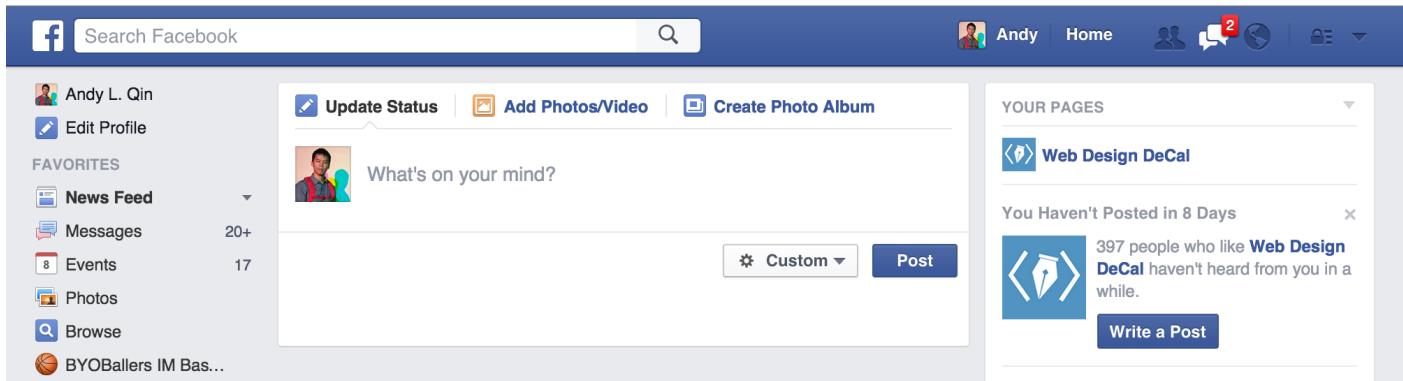
CSS Positioning - z-index

Check this out, yo:

bit.ly/z-index-1

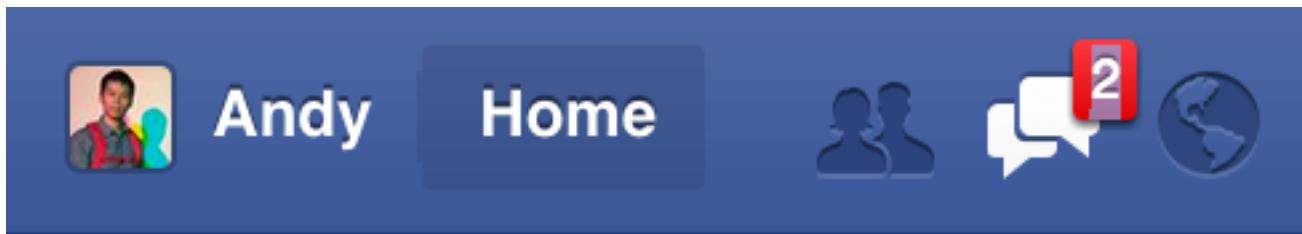
How would you?

Make the Facebook blue bar?



How would you?

How about just the notification widget?

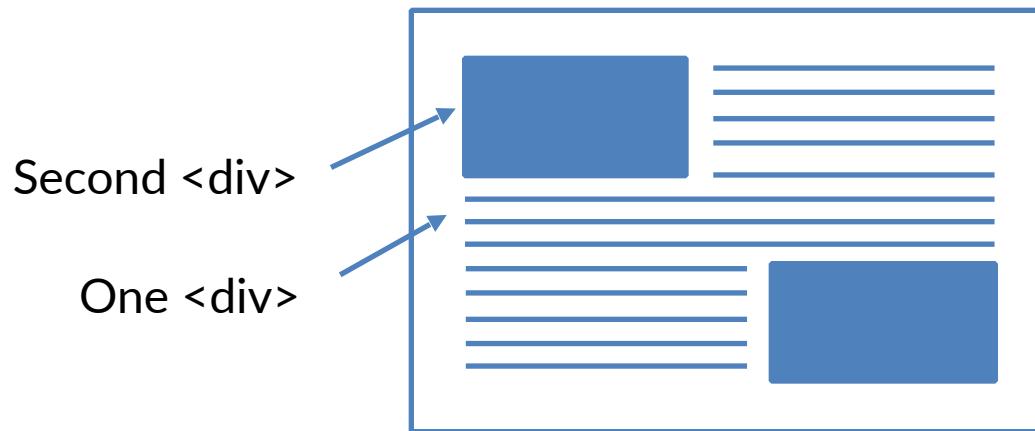




Lets talk floats!

CSS Positioning - float

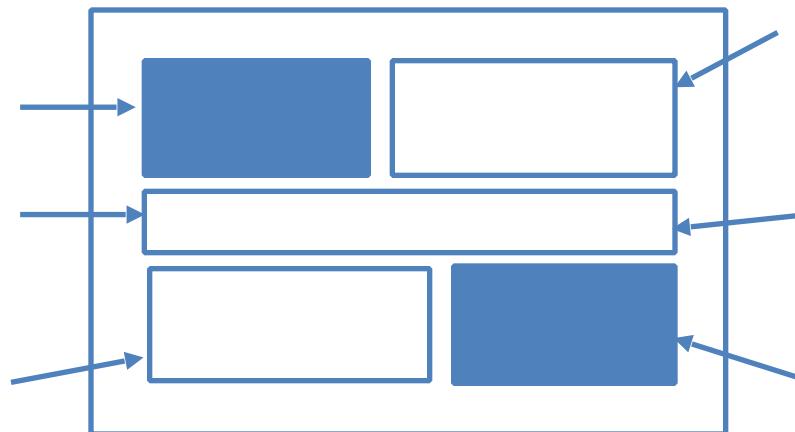
Floats allow elements to be part of the flow of the page.
Let's say you wanted to create this:



CSS Positioning - float

So why floats?

If you tried to do this with **display: inline-block...**



Ewwww.

CSS Positioning - float

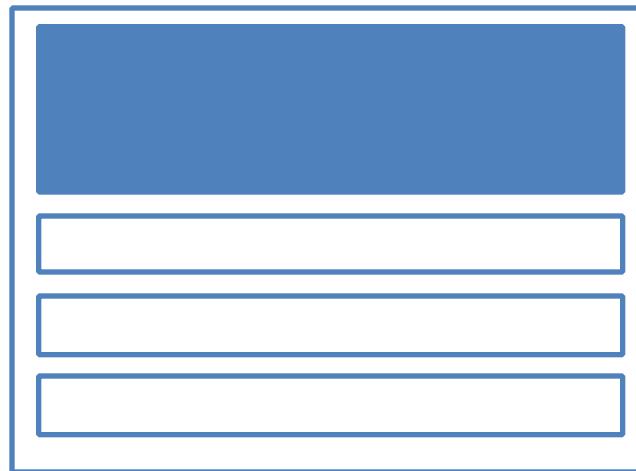
Can `float: left` or `float: right`

Even for block elements, float takes precedence and acts like `display: inline-block`

The next elements will stack next to the floated element!
Most importantly, text wraps around floated elements

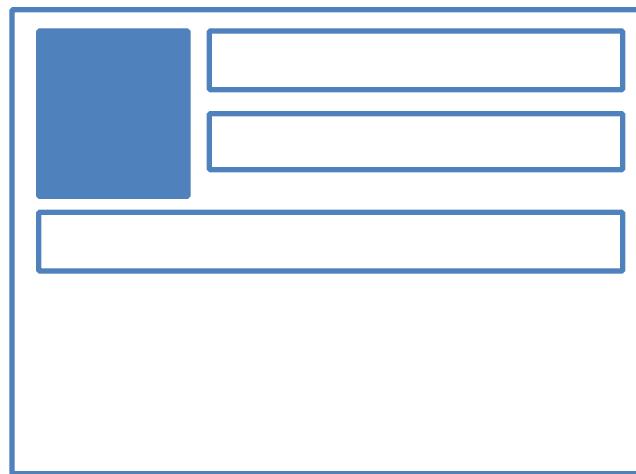
CSS Positioning - float

Just standard divs:



CSS Positioning - float

But just add float and:



bit.ly/positioning-1

CSS Positioning - float: left;

Suppose you're creating a menu:



Could use **display: inline-block**... but this creates gaps in between!
May or may not be desired...

CSS Positioning - float: left;

Suppose you're creating a menu:



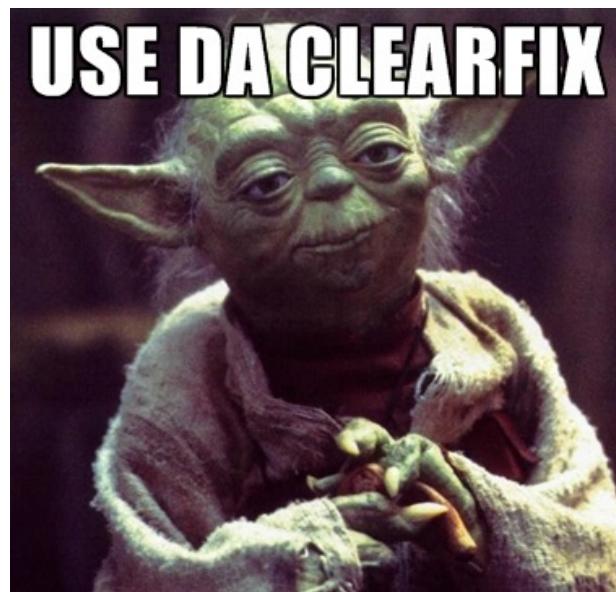
Use **float: left** instead!

bit.ly/float-1

How to stop floating left or right?

Need to use **clear**: both (aka “clearfix”)!

Breaks the float, so we finally stack vertically again, like block elements should



How to stop floating left or right?

We usually always define a class “clearfix”:

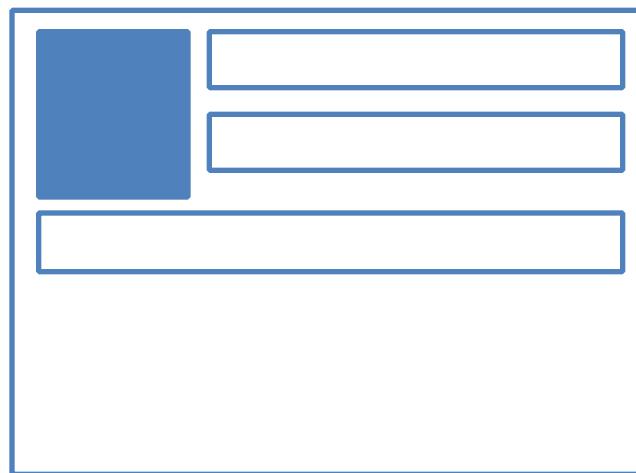
```
.clearfix {  
    clear: both;  
}
```

<div class="clearfix"></div>

And we put it after all the elements that are floated, so we can start the other content on a new line.

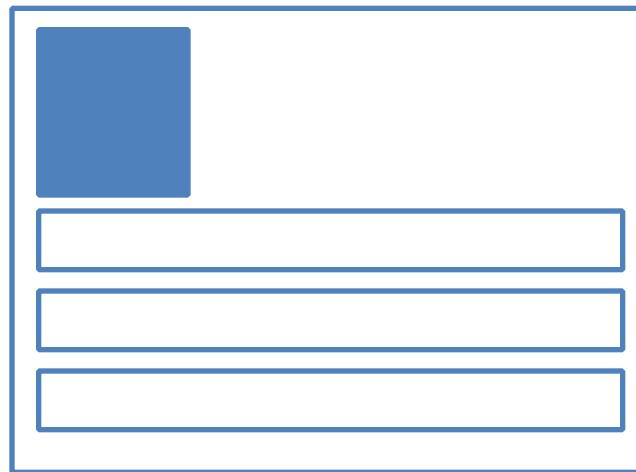
CSS Positioning - clear: both;

Blue box is **float: left;**



CSS Positioning - clear: both;

White boxes have a **clear**: both right before them!



Questions?