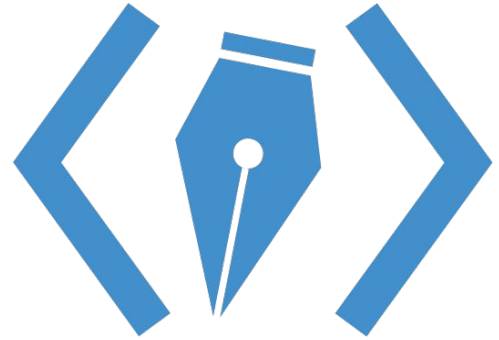


Week 04

CSS Positioning and Centering



Announcements

Bianca, Kaitlyn, and Susan's lab section

Go to someone else's lab section this week!

Grading

Assignments are randomly assigned to staff. Please be patient!

Midterm Project

The project check-in (4 points) deadline is next week, **Thursday, Oct 8th**.

The overall project is due on **Tuesday, Oct 20th**.

Top projects will be selected to present in lab section on **Thursday, Oct 22nd**!

Submission (due 10/20) : wdd.io/go/project-submit

Give us anonymous feedback at wdd.io/go/feedback

CSS Reminders

- You need metrics when defining number values!

```
p {  
  font-size: 18px;  
  width: 24px;  
}
```

- **Semicolon at the end of every line!!!**
- For hover effects (no space between selector name and “:hover”):

```
a:hover {  
  color: blue;  
}
```

moar CSS Reminders

```
<div class="big">
  <div class="container">
    <div class="a"></div>
    <div class="b"></div>
    <div class="c"></div>
  </div>
</div>
```

```
.big .container .a {
    ...
}

/* same thing as above */
.a {
    ...
}
```

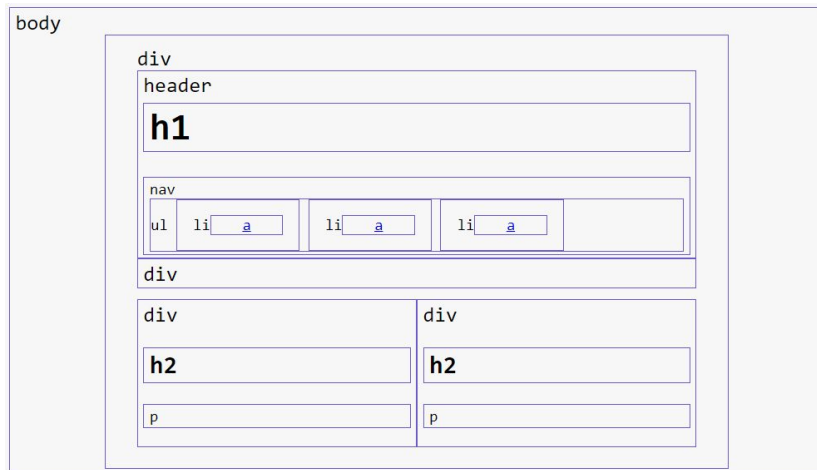
No need to write the full “path”

Web Design DeCal Fall 2020

Before we begin, let's recall our HTML skeleton.

| |
|---|
| |
| Berkeley Food Guide |
| |
| Home |
| Restaurants |
| Coffee Shops |
| This site features food places in Berkeley that WDD students recommend! |
| |
| Restaurants |
| |
| UC Berkeley has a large variety of restaurants nearby. Check out favorites on southside, northside, and downtown. |
| |
| Coffee Shops |
| |
| There are also several coffee shops and cafés that have outlets and free wifi, ideal for studying! |
| |

It's important to think of these divs as **containers** in parent-child hierarchies.



When we have content, we will position them **relative** to their containers.

| | | | |
|---|-----------------------------|--|--|
| Berkeley Food Guide | | | |
| Home | Restaurants | Coffee Shops | |
| This site features food places in Berkeley that WDD students recommend! | | | |
| Restaurants | | Coffee Shops | |
| UC Berkeley has a large variety of restaurants nearby. Check out favorites on southside, northside, and downtown. | | There are also several coffee shops and cafés that have outlets and free wifi, ideal for studying! | |

BOLD

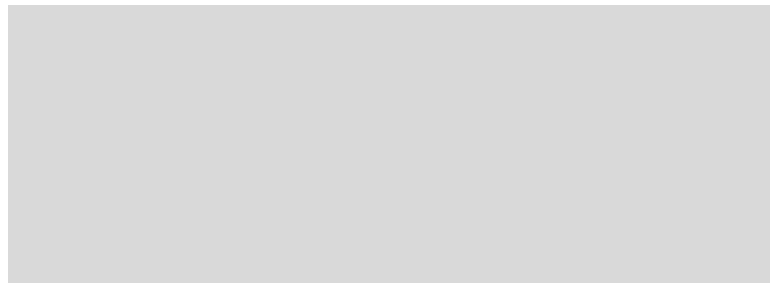
Bonjour

MEDIUM

J'aime le fromage

LIGHT

Unip greens yarrow ricebean rutabaga
endive cauliflower sea lettuce kohlrabi
amaranth water spinach avocado daikon
napa cabbage asparagus winter purslane
kale. Celery potato scallion desert raisin
horseradish spinach carrot soko. Lotus root
water spinach fennel kombu maize.



From our design lecture, we wanted to think of type as blocks / space ...

Web Design DeCal Fall 2020

The big deal about
divs and boxes ... **positioning.**

When we position things, we are disrupting the page's normal flow of elements.

Positioning

none (default)

Position the element according to the normal flow.

relative

Position the element according to the normal flow, and then **offset relative to itself**.
The offset doesn't affect the surrounding elements.

absolute

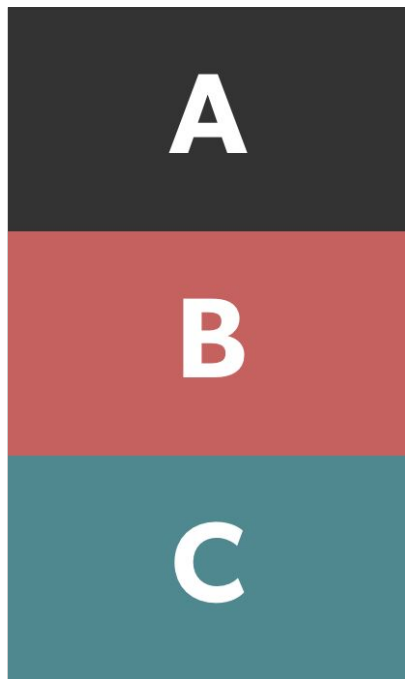
The element is **pulled out of the normal flow**,
and positioned **relative to its closest positioned ancestor**.

fixed

The element is **pulled out of the normal flow**,
and positioned **relative to the window/viewport**.

Default Positioning

```
<div class="container">  
  <div class="a"></div>  
  <div class="b"></div>  
  <div class="c"></div>  
</div>
```



parent <div> container

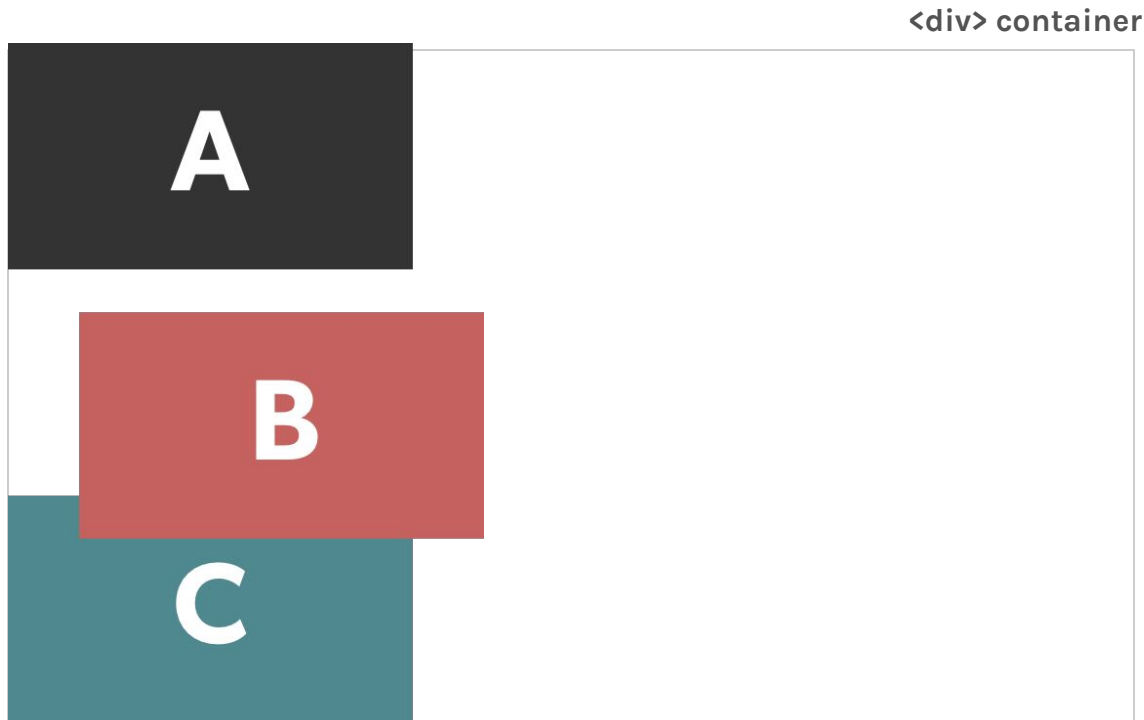
`position: relative`

Position the element according to the normal flow, and then offset **relative to itself**.

The offset **doesn't affect** the surrounding elements.

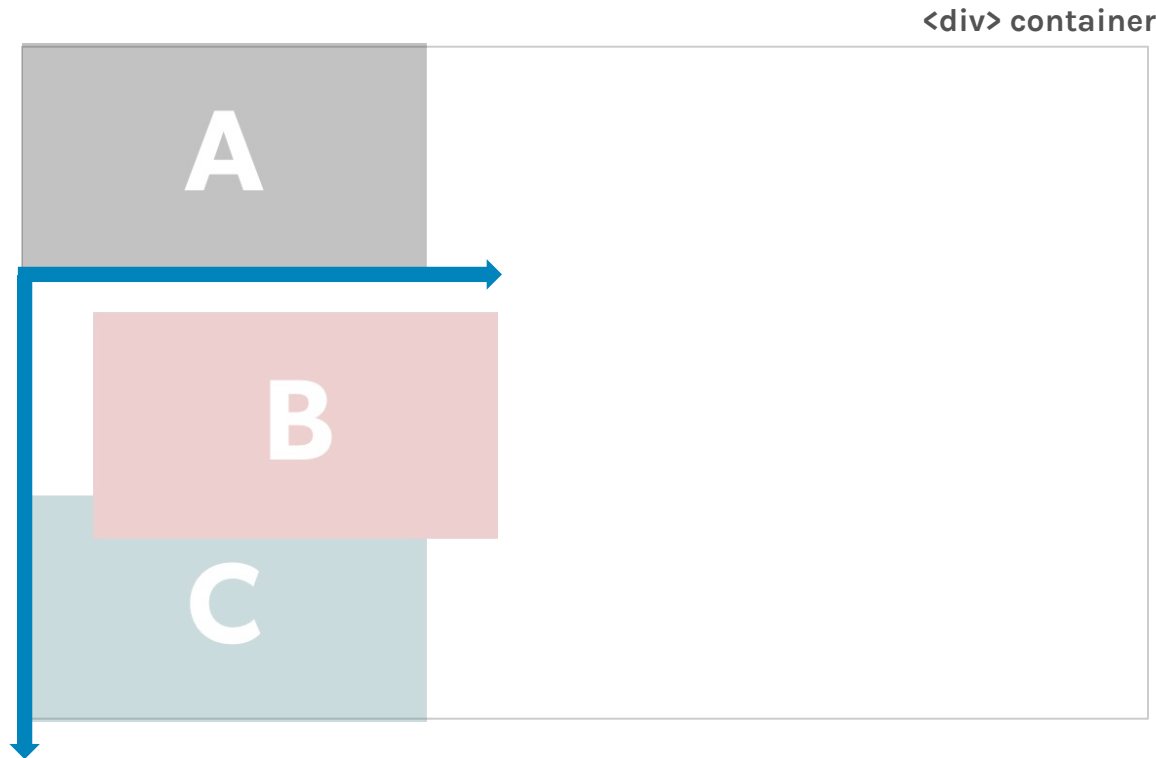
position: relative

```
.a {  
  ...  
}  
.b {  
  position: relative;  
  top: 20px;  
  left: 30px;  
}  
.c {  
  ...  
}
```



position: relative

```
.a {  
  ...  
}  
  
.b {  
  position: relative;  
  top: 20px;  
  left: 20px;  
}  
  
.c {  
  ...  
}
```



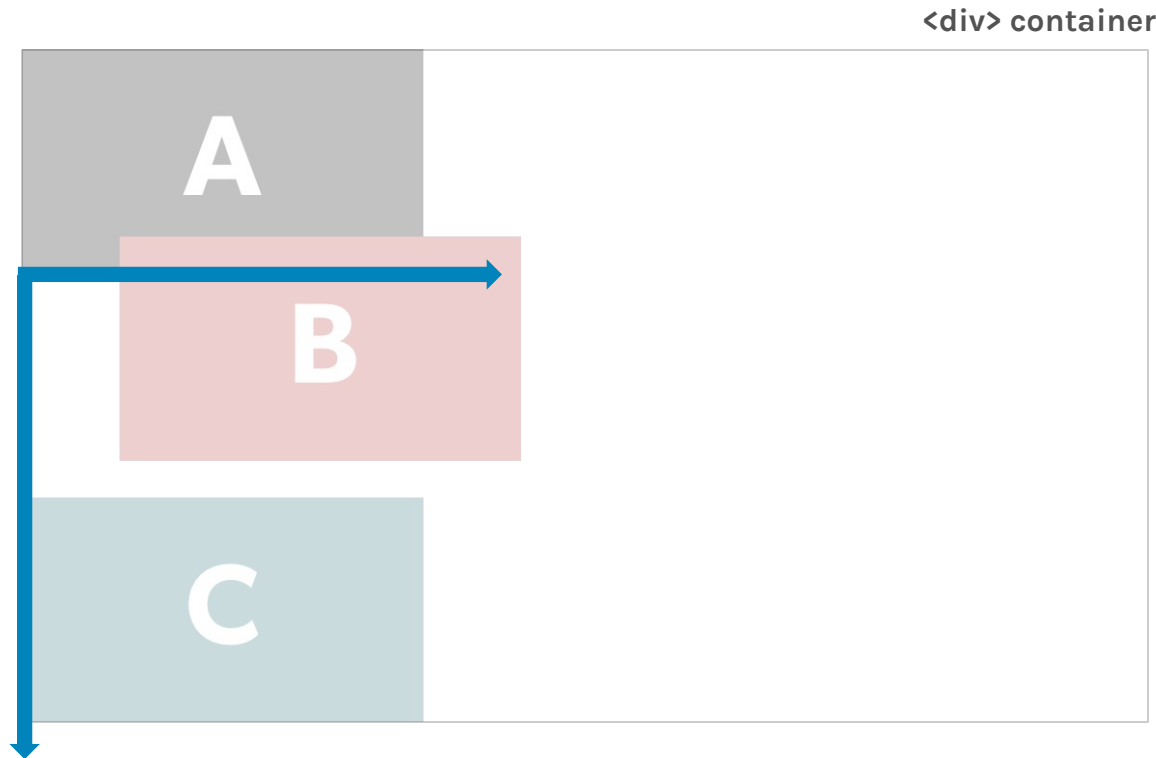
position: relative

```
.a {  
  ...  
}  
.b {  
  position: relative;  
  left: 50px;  
  bottom: 20px;  
}  
.c {  
  ...  
}
```



position: relative

```
.a {  
  ...  
}  
.b {  
  position: relative;  
  left: 50px;  
  bottom: 20px;  
}  
.c {  
  ...  
}
```



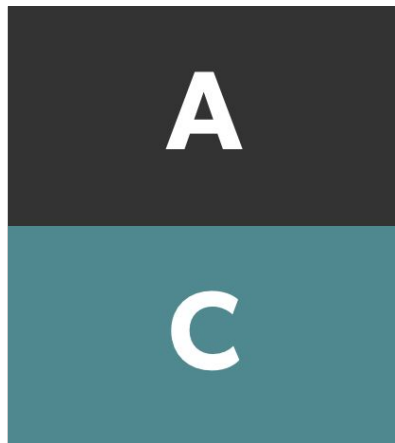
position: absolute

The element is pulled out of the normal flow.

It is positioned relative to its **closest relatively positioned ancestor**.

position: absolute

```
.container {  
  ...  
}  
.b {  
  position: absolute;  
  right: 0px;  
  top: 0px;  
}  
.a, .c {  
  ...  
}
```



What happened? Why did things seem to break and go out of our container?

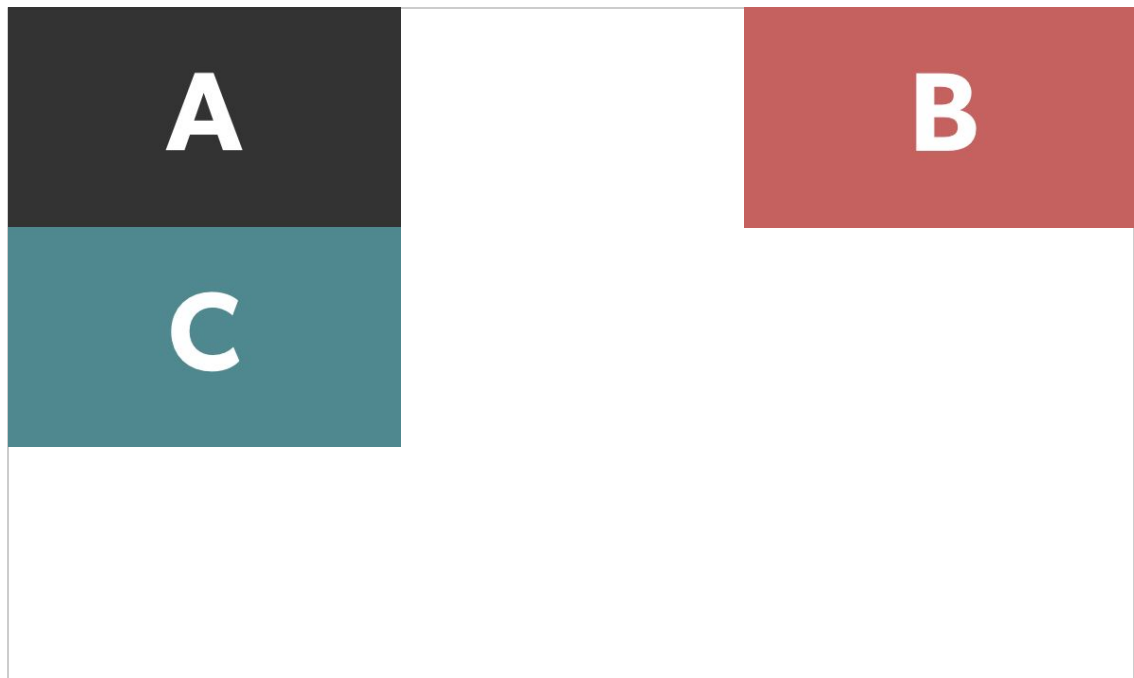
We don't have `<div class="container">` positioned!

When we have content, we will position them **relative** to their containers.

| | | | |
|---|-----------------------------|--|--|
| Berkeley Food Guide | | | |
| Home | Restaurants | Coffee Shops | |
| This site features food places in Berkeley that WDD students recommend! | | | |
| Restaurants | | Coffee Shops | |
| UC Berkeley has a large variety of restaurants nearby. Check out favorites on southside, northside, and downtown. | | There are also several coffee shops and cafés that have outlets and free wifi, ideal for studying! | |

position: absolute

```
.container {  
  position: relative;  
}  
  
.b {  
  position: absolute;  
  right: 0px;  
  top: 0px;  
}
```



**What if you wanted to put things
on top of each other?**

Layering on top of each other

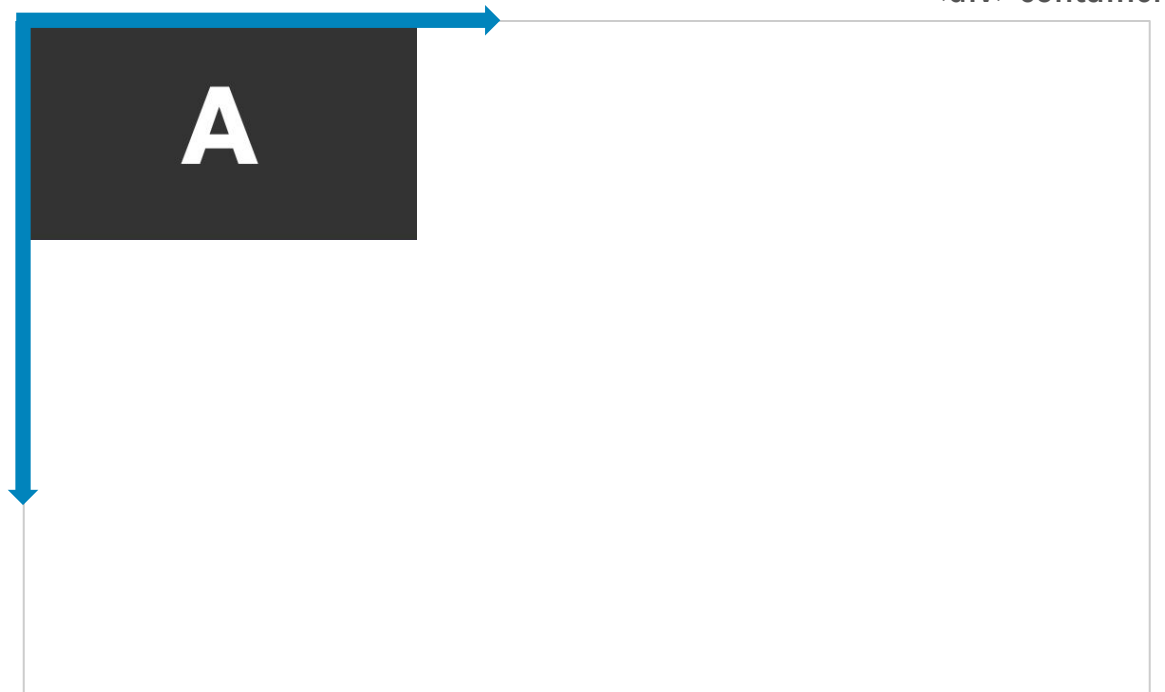
<div> container

```
.container {  
  position: relative;  
}  
  
.a, .b, .c {  
  position: absolute;  
}
```



Layering on top of each other

```
.container {  
  position: relative;  
}  
  
.a, .b, .c {  
  position: absolute;  
}
```



Think of relatively positioned ancestors as the **origin point** for absolute positioning.

[Host a home](#)[Host an experience](#)[Help](#)[Sign up](#)[Log in](#)

Book unique places to stay and things to do.

WHERE

CHECK-IN

CHECKOUT

GUESTS



Search



Over 300 unique places



[Terms, Privacy, Currency & More](#)

[Host a home](#)[Host an experience](#)[Help](#)[Sign up](#)[Log in](#)

Book unique places to stay and things to do.

WHERE

CHECK-IN

CHECKOUT

GUESTS



Search

this is your relatively positioned container

[Host a home](#)[Host an experience](#)[Help](#)[Sign up](#)[Log in](#)

**Book unique places to
stay and things to do.**

WHERE

Anywhere

CHECK-IN

mm/dd/yyyy

CHECKOUT

mm/dd/yyyy

GUESTS

Guests



Search

use absolute
positioning to put
signup form here

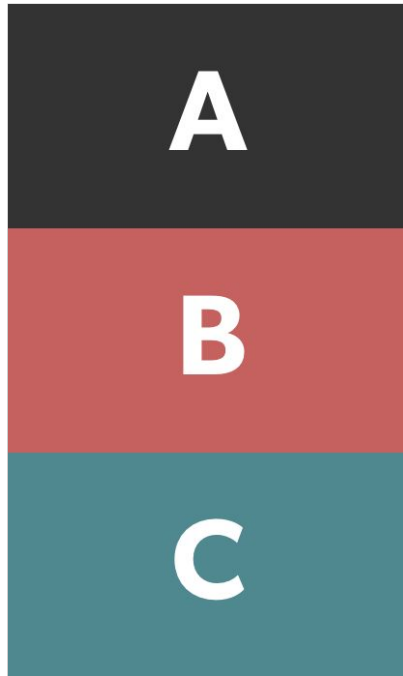
position: fixed

**The element is pulled out of the normal
flow.**

**It is positioned relative to the
window/viewport.**

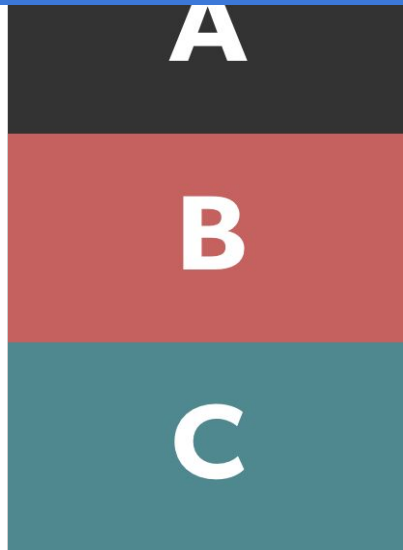
position: fixed

```
.nav {  
  position: fixed;  
  left: 0px;  
  top: 0px;  
}  
.a, .b, .c, {  
  position: relative;  
}
```



<div> container


```
.nav {  
  position: fixed;  
  left: 0px;  
  top: 0px;  
}  
.a, .b, .c, {  
  position: relative;  
}
```



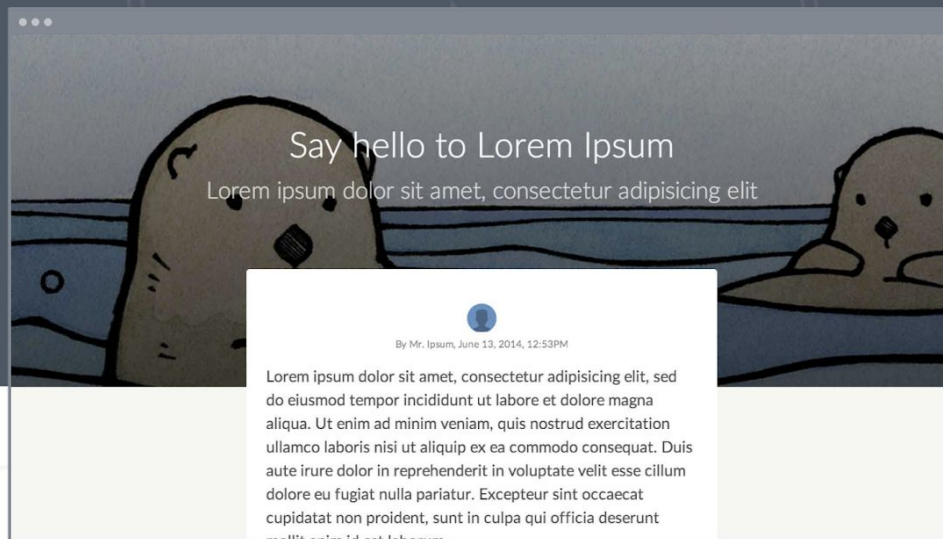
Applications are now closed. No late applications are being accepted at this time (not even if you email us!), but check back at the end of the semester!

Web Design DeCal

A 2-unit course for anyone who wants to create a **beautiful** website.

Log in to WDD Portal

Learn More

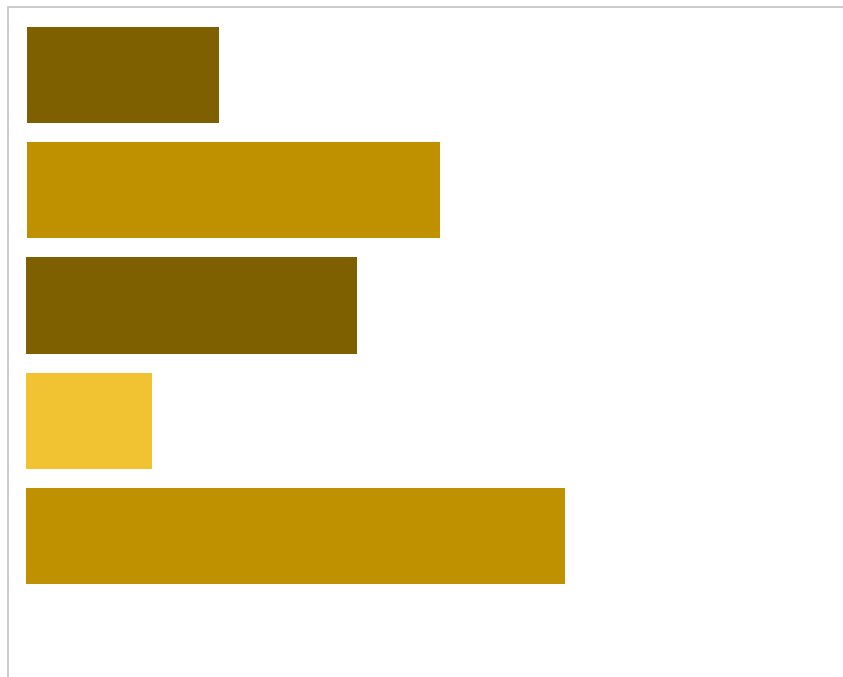


Centering

Horizontally center block elements

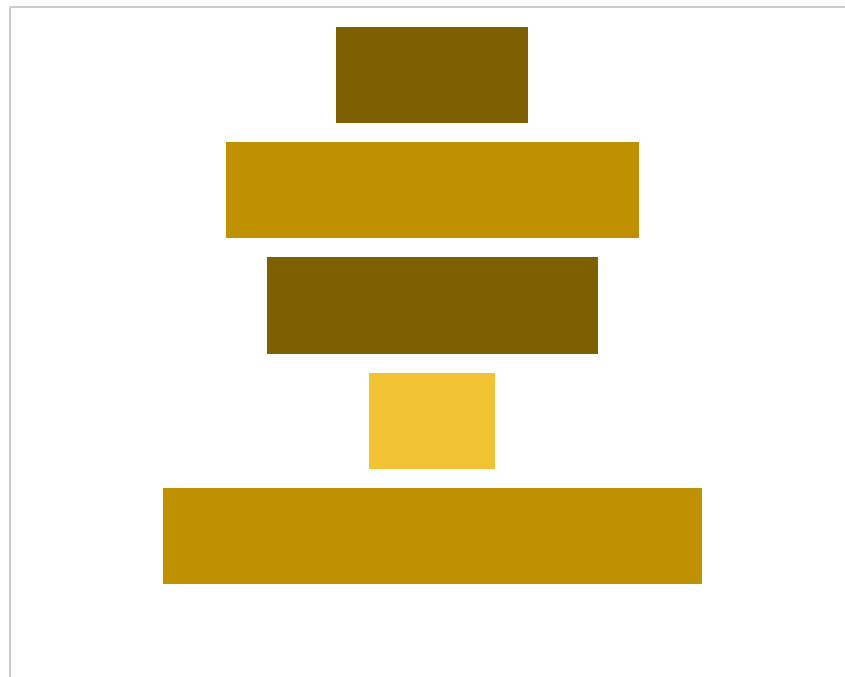
```
.potato {
```

```
}
```



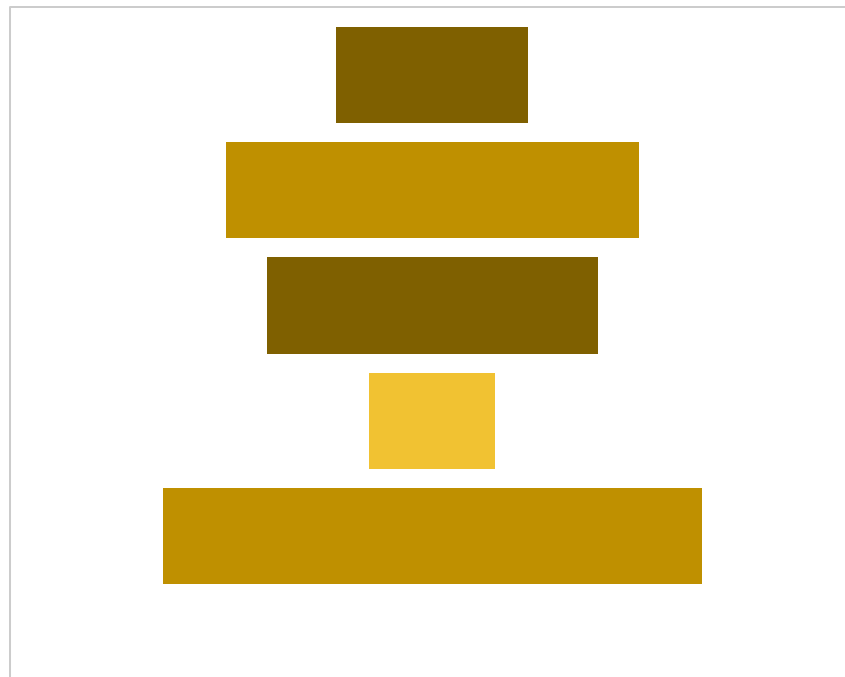
Horizontally center block elements

```
.potato {  
  margin-right: auto;  
  margin-left: auto;  
}
```



Horizontally center block elements

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



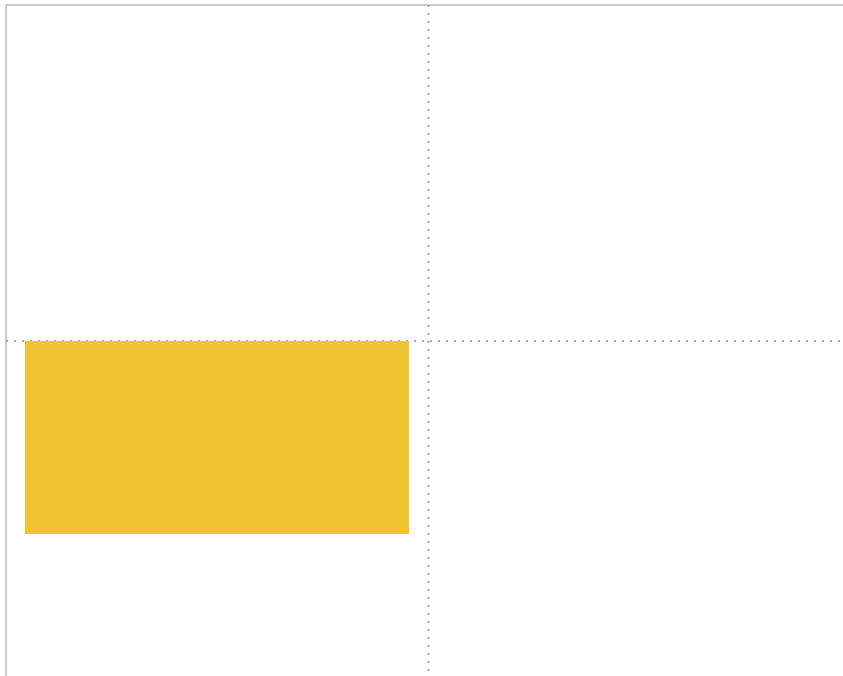
Vertically center block elements w/ absolute position

```
#big-potato {  
  width: 100px;  
  height: 50px;  
}
```

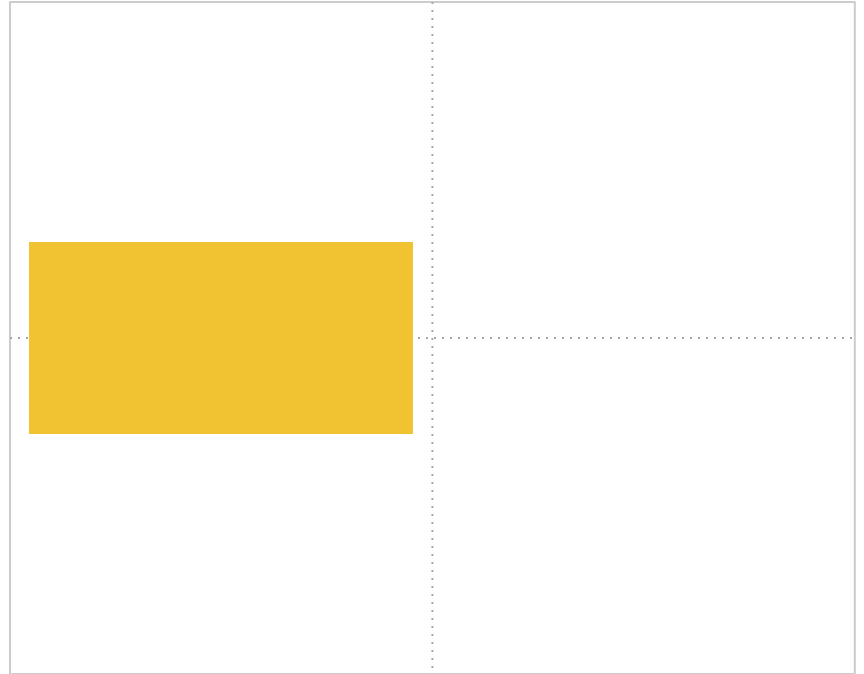


Vertically center block elements w/ absolute position

```
#big-potato {  
  ...  
  position: absolute;  
  top: 50%;  
}
```




```
#big-potato {  
  ...  
  position: absolute;  
  top: 50%;  
  transform: translateY(-50%);  
}
```

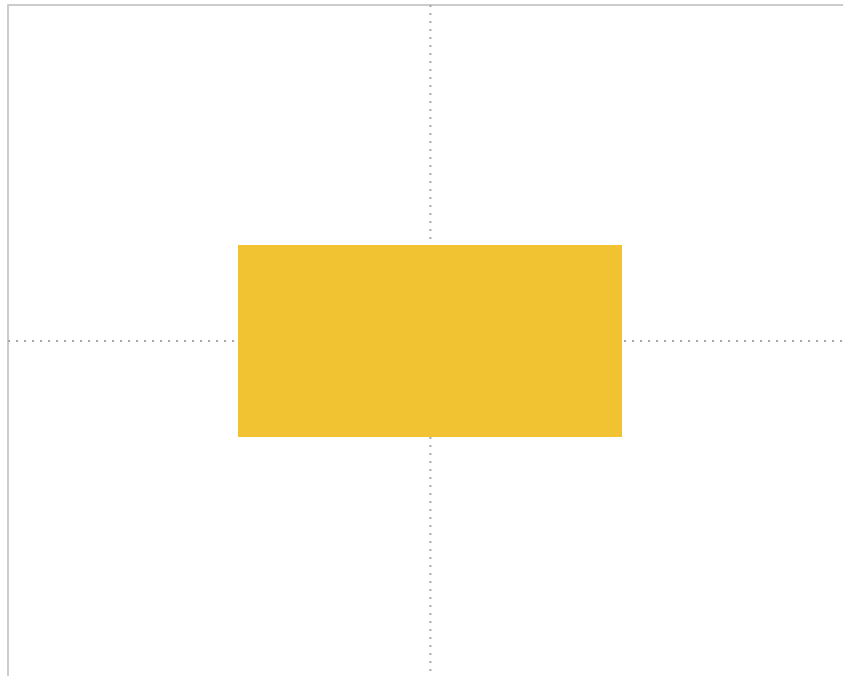


What's the 50% doing in the transform?

We can center-center things too

Center block elements

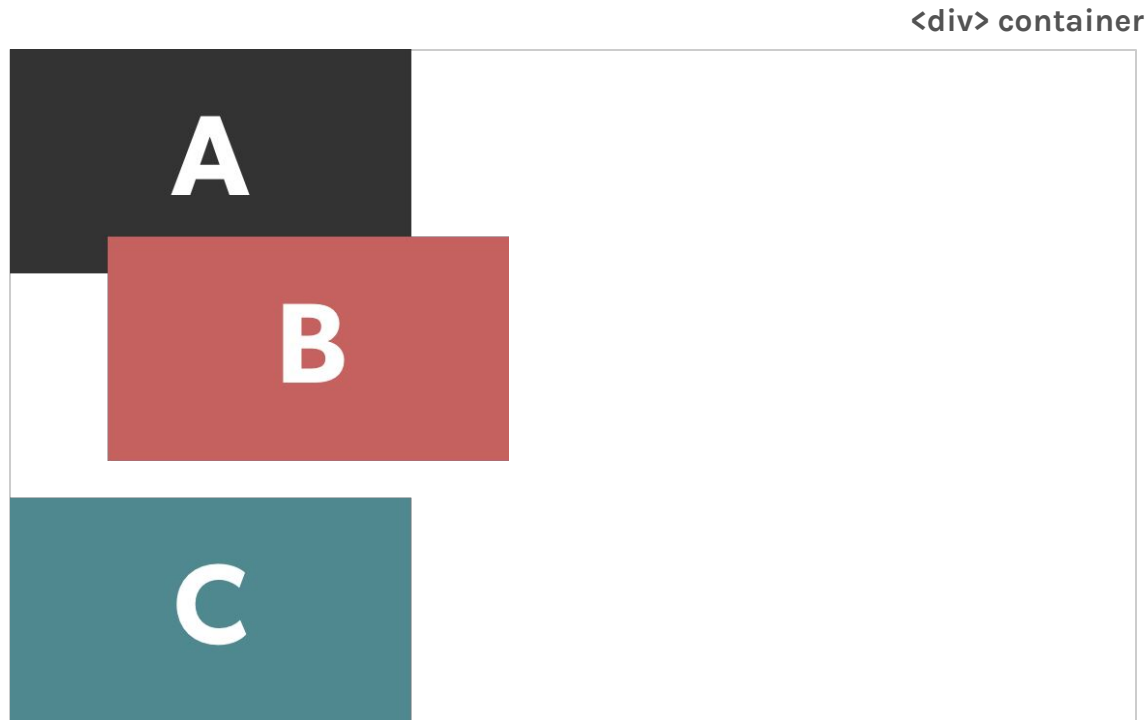
```
#big-potato {  
  ...  
  position: absolute;  
  top: 50%;  
  left: 50%;  
  transform: translate(-50%, -50%);  
}
```



Miscellaneous

z-index

```
.a {  
  ...  
}  
.b {  
  position: relative;  
  left: 50px;  
  bottom: 20px;  
}  
.c {  
  ...  
}
```

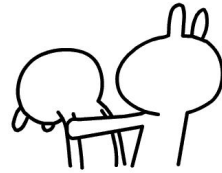


What if we want A on top of B?

z-index

```
.a {  
  z-index: 1;  
}  
.b {  
  position: relative;  
  left: 50px;  
  bottom: 20px;  
  /* default */  
  z-index: 0;  
}
```





Questions?