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WEEK 3
BEGINNING JAVASCRIPT



The Agenda

- CEID orientation tour (Congrats to the new members!)
- Homework review (20 minutes)
- Filling in some gaps (colors)
- Beginning Javascript
- Admin (5 minutes)

JOINING THE LORE



JUST KIDDING



HOMEWORK REVIEW



**MOST
ACCURATE**

TIE!

MARCUS MORETTI

&

DREW MCMAHON



**MOST
RESOURCEFUL**

ANDREW CROUCH



BEST NAVIGATION BAR

CAROLINE LESTER

**MOST
INFORMATIVE**

JESSE TORDOFF

ALSO, STYLE OF THE WEEK -- “TEXT-ALIGN: JUSTIFY;”



COOLEST HOVER EFFECT

ERIN MILLER



BEST GIF



LINDSEY MISCHNER



MARATHON (WO)MEN

**BRIAN LOEB
&
ALY MOORE**

HONORABLE MENTION

DEANNA ZHANG





COMMON SLIP UPS

AND SOLUTIONS



STYLESHEET PRECEDENCE

```
<link rel="stylesheet" href="http://cloudchill.in/stylesheets/normalize.css" />  
<link rel="stylesheet" href="./style.css" />
```

← STYLESHEET PRECEDENCE →

```
<link rel="stylesheet" href="http://cloudchill.in/stylesheets/normalize.css" />  
<link rel="stylesheet" href="./style.css" />
```



COMES FIRST

< DOCTYPE, HEAD, BODY >

EVERY HTML DOCUMENT NEEDS THEM

< DOCTYPE, HEAD, BODY >

AND YOU KNOW THIS. GREAT JOB!

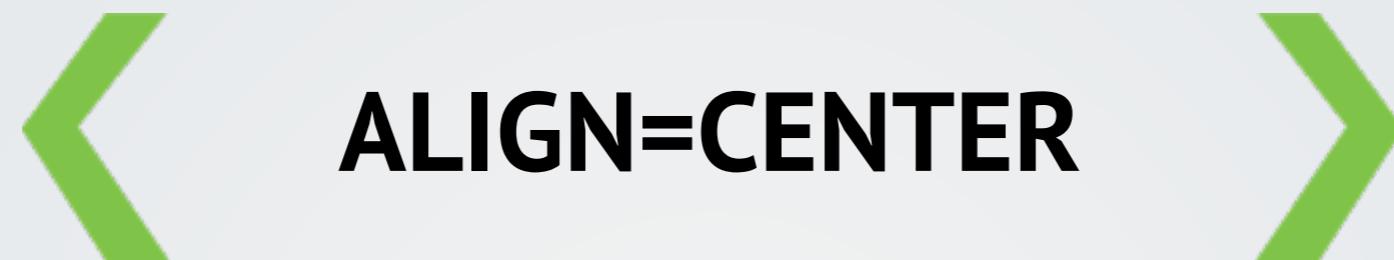


IMAGES

MAKE SURE THE IMAGE “SRC”
ATTRIBUTE ACTUALLY POINTS TO AN
IMAGE

 **ALIGN= CENTER** 

DEPRECATED



ALIGN= CENTER

DON'T USE IT



ALIGN= CENTER

USE CSS

OVERALL, AMAZING WORK!

- The submissions were fantastic.
 - You've launched **more** live websites with links, multiple pages, user-responsive effects, organized layouts, and more.
- Some of the projects already look very professional.

REVIEW OF WHAT ELSE TO LEARN

HTML

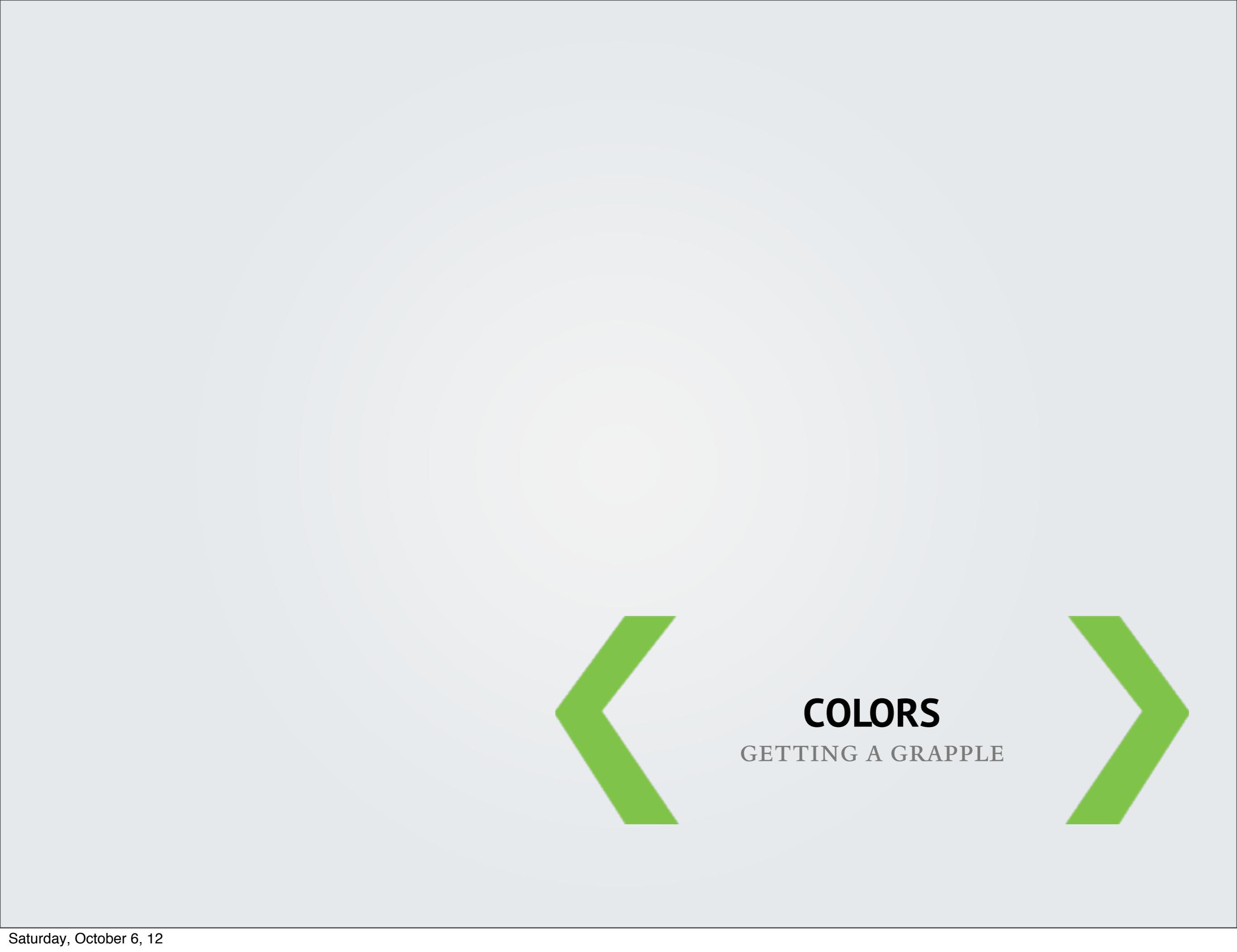
We will probably cover them, but no guarantees, and not today in class.

- › meta tags
- › forms
- › iframes
- › explore and google them!

CSS

We will probably cover them, but no guarantees, and not today in class.

- selector precedence
- float
- display
- position
- explore and google them!



COLORS

GETTING A GRAPPLE

MANY WAYS TO DECLARE COLOR

- ▶ Common names

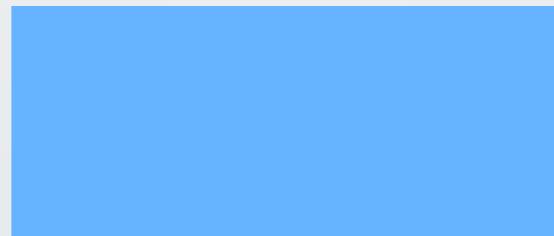
- ▶ “lightgrey” or “blue” or “magenta” – This gives little control and is generally considered poor practice

- ▶ Hex values

- ▶ allows for 268,435,456 options (256^3)
 - ▶ Much more control => much prettier websites

USING HEX

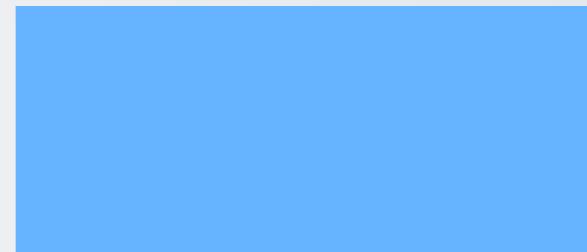
- Hex colors are preceded with a # and consist of three parts (each one a 2-digit base-16 number)
 - 1. how much red
 - 2. how much green
 - 3. how much blue
 - example: #5AB3FF ==> 90 parts red, 179 parts green, 255 parts blue:



USING RGBA

- ▶ Directly declare how much red, green, and blue with a number between 0 and 255.

- ▶ `#5AB3FF => rgba(90, 179, 255, 1) =>`



- ▶ a stands for alpha

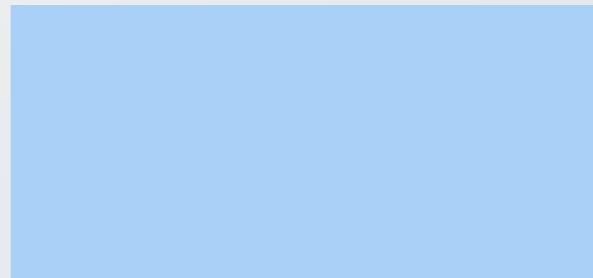
- ▶ signifies the opacity on a 0->1 scale

||
V

- ▶ 0 => completely transparent

- ▶ 1 => completely opaque

- ▶ `rgba(90, 179, 255, 0.5) =>`



HOW DO I CHOOSE A COLOR?

There are many great online resources for selecting colors and finding their HEX or RGBA values

- ColourLovers (<http://colourlovers.com>)
- Adobe Kuler (<http://kuler.adobe.com>)
- Design Seeds (<http://design-seeds.com>)
- Image to Color Palette (<http://www.degraeve.com/color-palette/>)
- Adobe Photoshop (if you have it)



SPOON-FED STYLES OF THE DAY

BORDER-RADIUS AND BOX-SHADOW



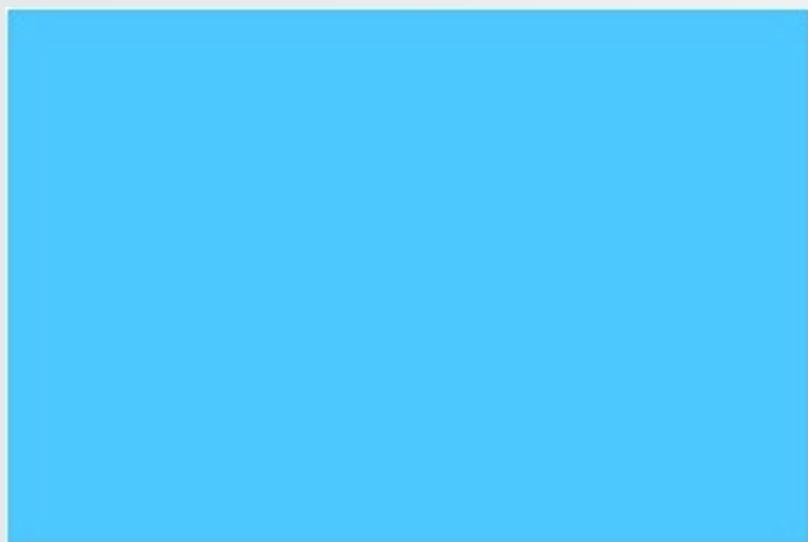
BORDERS

BORDER-RADIUS, BOX-SHADOW

BORDER-RADIUS

Allows for rounded corners:

```
#container{  
    width: 300px;  
    height: 200px;  
    background-color:#29C9FF;  
}
```



=>

```
#container{  
    width: 300px;  
    height: 200px;  
    background-color:#29C9FF;  
    border-radius: 30px;  
}
```



GIVING A RADIUS CORNER-BY-CORNER

`border-radius: 20px;`

is equivalent to

`border-top-left-radius: 20px;`

`border-top-right-radius: 20px;`

`border-bottom-left-radius: 20px;`

`border-bottom-right-radius: 20px;`

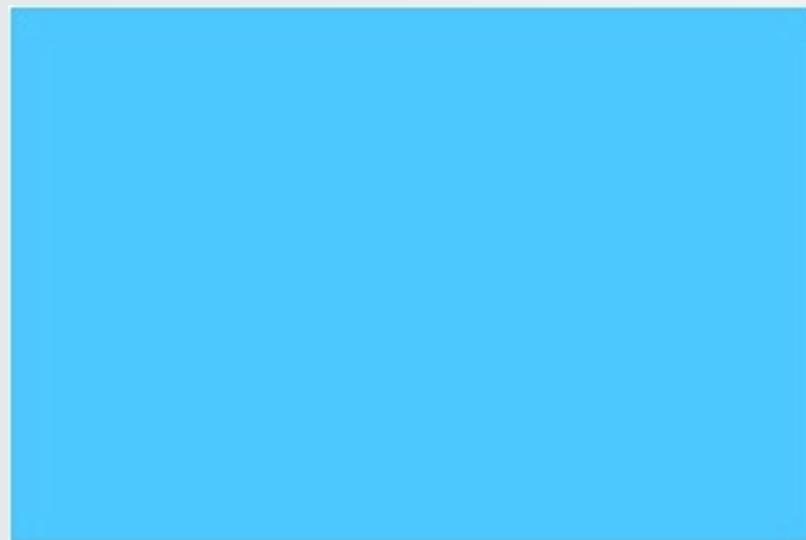
GIVING A RADIUS CORNER-BY-CORNER

```
border-top-left-radius: 10px;  
border-top-right-radius: 30px;  
border-bottom-left-radius: 30px;  
border-bottom-right-radius: 10px;  
  
is equivalent to  
border-radius: 10px 30px 10px 30px;
```

BOX-SHADOW

Make your elements look 3D!

```
#container{  
    width: 300px;  
    height: 200px;  
    background-color:#29C9FF;  
}
```



=>

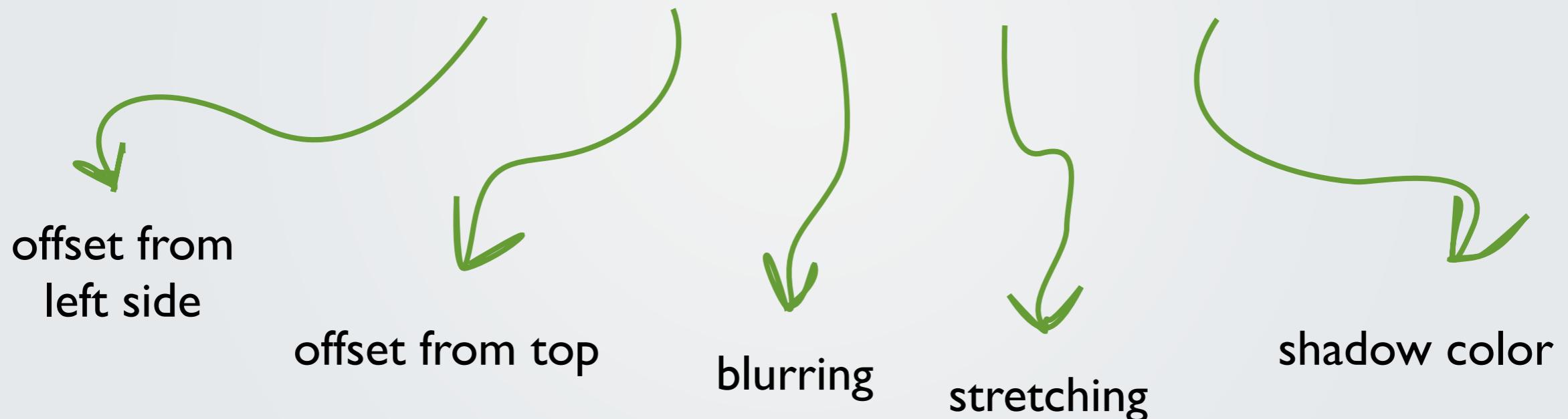
```
#container{  
    width: 300px;  
    height: 200px;  
    background-color:#29C9FF;  
    box-shadow: 0px 0px 20px 0px #070;  
}
```



HOW IT WORKS

Takes up to five parameters

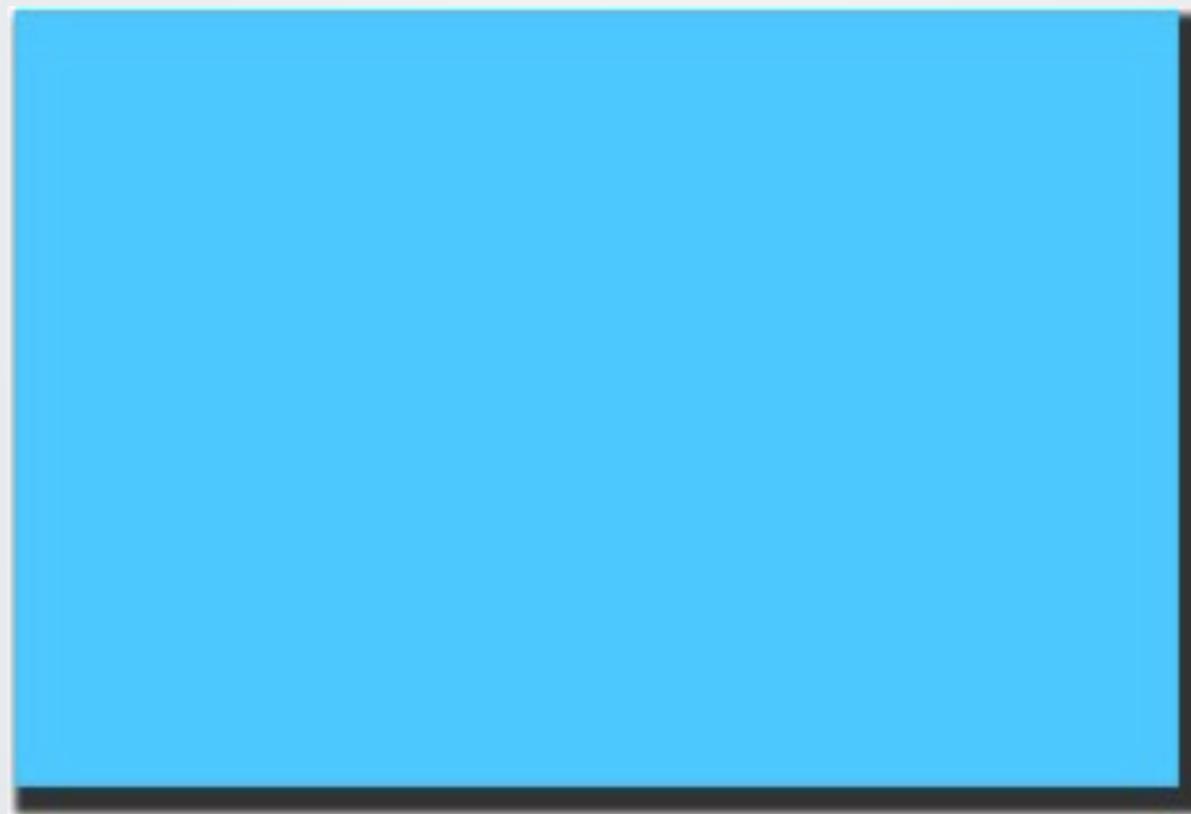
box-shadow: **3px 4px 2px 3px #333;**



RED = REQUIRED!

AN EXAMPLE

box-shadow: 3px 4px 2px 3px #333;



JAVASCRIPT!

DIVING IN BLIND



A PROGRAMMING LANGUAGE

You are not constrained to the finite list of properties and tags provided by HTML and CSS.

- JavaScript is a robust programming language.
- Loosely typed, dynamic, object-oriented through prototypal inheritance, etc.
- Okay not to know what any of that means.
- It's my favorite of them all.

METHODOLOGY

This week we are going to do JavaScript, and then next week we are going to learn it.

- The homework and activity will give you a chance to explore and learn first hand before taking a step back for a higher-level overview.
- There are more bad JavaScript programmers than any other language in the world. Today you will join the ranks, and someday hopefully you will leave them.
- We're all still learning too.

DEMONSTRATION

FIRE UP THE CONSOLE

CHROME CONSOLE

command + option + j
or
view -> developer -> javascript console



```
Elements Resources Network Scripts Timeline Profiles Audits Console Page Speed
> alert("hey");
undefined
> var answer = prompt("what's your name");
undefined
> alert(answer);
undefined
> answer === "Zack";
true
>
```

□ ╛ ╞ ╟ <top frame> ▾ All Errors Warnings Logs

INCLUDING JAVASCRIPT

SIMILAR TO CSS

```
<!DOCTYPE html>
<html>
<head>
    <!-- some HTML -->
</head>
<body>
    <!-- some more HTML -->
    <script src="main.js"></script>
</body>
</html>
```

WHAT ARE THE DIFFERENCES?

```
<!DOCTYPE html>
<html>
<head>
    <!-- some HTML -->
</head>
<body>
    <!-- some more HTML -->
    <script src="main.js"></script>
</body>
</html>
```

CSS

```
<html>
<head>
  <!-- some HTML -->
  <link rel="stylesheet" href="/style.css">
  <!-- some more HTML -->
</head>
<body>
  <!-- even more HTML -->
</body>
</html>
```

JAVASCRIPT

```
<!DOCTYPE html>
<html>
<head>
  <!-- some HTML -->
</head>
<body>
  <!-- some more HTML -->
  <script src="main.js"></script>
</body>
</html>
```



DEMO TIME!



HOMEWORK

A TODO LIST



ADMIN



ADMIN

➤ Coding Homework

- Make an even cooler todo list application than mine
- Upload it to CloudChill.in as hw3_your_name
- Send me the url, so I know it's final
- Explore and read about JavaScript
- More details in the wrap up email

➤ There will be more Oscars

ADMIN

➤ Office Hours

- Paul Fletcher-Hill (TBA)
- Brandon Jackson (TBA)
- Rafi Khan (Thursday 8pm - 10pm)
- Zack Reneau-Wedeen (Monday 3pm - 5pm)
- Location TBA in the wrap-up email

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➤ Support Groups

- Small groups you can direct questions to
- Will be announced next week!

ADMIN

➤ Workshops

- Two big ones this week
 - Twitter Bootstrap with Rafi Khan
 - Adobe Photoshop and Illustrator with Chika Ota
- Get on the mailing list at [hackyale.com!](http://hackyale.com)

THANKS!



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QUESTIONS EVEN GOOGLE CAN'T ANSWER?

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