

## Web Development

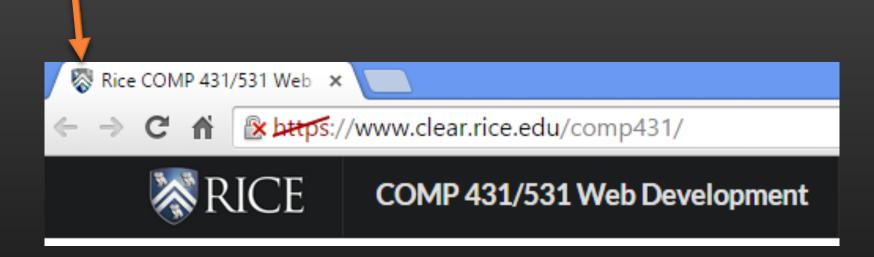
COMP 431 / COMP 531

## Cascading Style Sheets

Scott E Pollack, PhD

Reference Slides

#### Favicon



<link rel="icon" href="/favicon.ico" type="image/x-icon">

## Styling HTML

- We already have <strong> and <em>
- What about changing the text color?
- Background color?
- Style of a table? E.g., border and spacing

#### Styling HTML <img src="../../RiceLogo.jpg" width="200px"

```
<font color="red">A &lt;font&gt; tag can be
used to change the "font" of some text.</font> This
<em>still
works because browsers are backwards
compatible and are forgiving. We can even change
<font size="3" face="verdana">the font face</font>
or <font size="1"> even the size</font>.
But the <em>control</em> over these styles
is made difficult because we have to search
the DOM for the tags and then modify them.
```

A <font> tag can be used to change the "font" of some text. This *still* works because browsers are backwards compatible and are forgiving. We can even change the font face or even the size. But the *control* over these styles is made difficult because we have to search the DOM for the tags and then modify them.

#### Drive for Style

- We're constructing a web application
- Separation of content from presentation
- We want consistency between pages
- Our own "look" and "feel"
- Color scheme
- · FONT SELECTION
- Background images or watermarks
- Ease of change
- Accessibility



#### Cascading Style Sheets

- Separation of style (presentation) and content
  - For example, switching between desktop and mobile
- Parallel development with content stubs
  - Styling and Control (i.e., JavaScript) can then be developed in parallel
- Reuse of style sheets
  - Style once present everywhere
- "Cascading" meaning one follows another.
  - There's an order of importance in style annotations
- Users can selectively turn styles off or turn others on.

#### Where does CSS go?

• Style can be inline

```
<span style="font-family: verdata; font-size: 14pt">the font face</span>
```

• Style can be defined internally

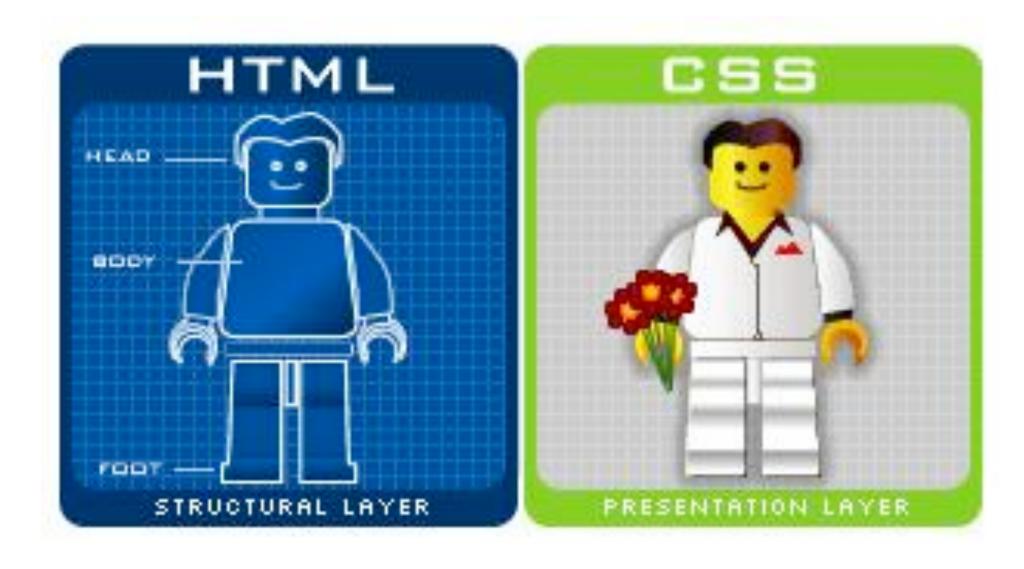
```
<style>
#red {
    color: red;
}
```

• Style can be defined externally

```
<link rel="stylesheet" href="mystyles.css">
```

We can use all of the above simultaneously.

But the last is best.



HTML is the blueprint and CSS is the coloring on top.

#### Colors

- <style>
  #red {
   color: red;
  }
- Change foreground (i.e., text) or background color
- Specify by

```
name, #ff55aa, rgb(255,156,0), rgba(0,10,55,0.5)
hsl(25,80%,15%) hsla(25,80%,15%,0.5)
```

http://www.w3schools.com/cssref/css\_colornames.asp

http://www.w3schools.com/tags/ref\_colorpicker.asp

#### Dev Tools

### Live Editing

ctrl+shift+C cmd+option+l select an element to inspect

Update CSS styles in real time Is much faster than edit and refresh

```
Elements Network Sources Timeline »
▼<html>
                                       Computed Event Listeners »
 <head>...</head>
                                element.style {
 ▼ <body>
                                   color: _rgb(255, 156, 0);
     <h2>With CSS</h2>
   ▶ ...
   ▼ >
       <span style="color:</pre>
       red">name</span>
       <span style="color:</pre>
       #ff55aa">#ff55aa</sp
       an>
       <span style="color:</pre>
       rgb(255, 156,
                                 255
                                        156
       0)">rgb(255,156,0)
       span>
```

#### Font "Face"

- font-family
  - Comma separated list
  - Browser picks the font depending on system availability

- Google Fonts
  - Visual selection of various fonts.
  - Create a special "collection" of fonts for your site

```
<link href='https://fonts.googleapis.com/css?family=Roboto'
rel='stylesheet' type='text/css'>
```

font-family: 'Roboto', sans-serif;

Don't go crazy with fonts, but it is good to have some variation to make your site look unique.

#### Decoration and Spacing

```
font-weight bold
```

```
font-style
italic
```

# text-decoration strike-through underline

```
<span style="text-decoration: overline">overlined text</s
<span style="text-decoration: underline">is better than u

<
span style="letter-spacing: 1em">we control the horizont
<span style="word-spacing: 1.5em">Lorem ipsum dolor sit a
elit, sed do eiusmod tempor incididunt ut labore et dolor

<
span style="line-height: 3em">We control the vertical!
```

overlined text is better than underlined text

#### :"letter-spacing: 1em"

we control the horizontal Loren dolor sit amet, consectetur adipiscing elit, sed ipsum tempor incididunt ut labore et dolore eiusmod magna onim ad minim voniam quis nostrud exercitation ullamco laboris text-transform: uppercase odo consequat. DUIS AUTE VOLUPTATE DOLOR IN REPREHENDERIT IN **ESSE** VELIT FUGIAT NULLA CILLUM DOLORE EU PARIATUR. Excepteur occaecat cupidatat non proident, sunt in culpa officia sint qui est laborum anim id mollit deserunt word-spacing: 1.5em

We control the vertical! Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod

tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis postrud.

line-height: 3em

exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in

# Size units

#### **Relative**

# font-size: 10<?> width: 500<?>

#### **Absolute**

Unit	Description
cm	centimeters
mm	millimeters
in	inches (1in = 96px = 2.54cm)
px *	pixels (1px = 1/96th of 1in)
pt	points (1pt = 1/72 of 1in)
рс	picas (1pc = 12 pt)

Unit	Description
em	Relative to the font-size of the element (2em means 2 times the size of the current font)
ex	Relative to the x-height of the current font (rarely used)
ch	Relative to width of the "0" (zero)
rem	Relative to font-size of the root element
vw	Relative to 1% of the width of the viewport
vh	Relative to 1% of the height of the viewport
vmin	Relative to 1% of viewport's smaller dimension
vmax	Relative to 1% of viewport's larger dimension
%	

<sup>\*</sup> px are viewing device relative.

### Use "em" whenever possible

	body { font-size: 100%; }	body { font-size: 120%; }
font-size: 1em	The quick brown fox The quick brown	
font-size: 12pt	The quick brown fox	The quick brown fox
font-size: 16px	The quick brown fox	The quick brown fox
font-size: 100%	The quick brown fox	The quick brown
		© KyleSchaeffer.com

#### Box Model

```
32
margin
   border
      padding 16
        374.094 × 212 16 8 32
              16
               8
              32
```

Styles | Computed | Event Listeners | DOM Breakpoir

```
Show inherited properties
  border-bottom-color: ☐rgb(0, 0, 255);
  border-bottom-style: solid;
 border-bottom-width: 8px;
  border-image-outset: 0px;
 border-image-repeat: stretch;
 border-image-slice: 100%;
 border-image-source: none;
 border-image-width: 1;
 border-left-color: ☐rgb(0, 0, 255);
  border-top-color: ☐rgb(0, 0, 255);
  border-top-style: solid;
  border-top-width: 8px;
  display: block;
  float: right;
  height: 212px;
  margin-bottom: 32px;
  margin-left: 32px;
  margin-right: 32px;
  margin-top: 32px;
   padding-bottom: 16px;
   padding-left: 16px;
   padding-right: 16px;
   padding-top: 16px;
  width: 374.09375px;
```

Not so nice I think

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float right float right

Visit the linked page to see how it functions with relation to resizing the screen and scrolling

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float right float

right float right

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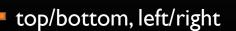
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float right
float right
float right
float right
float right
float right

Resize the screen. Absolute moves

<img style="height: 5em;
position:absolute; left: 8em; top: 60em"</pre>



#### Scroll around, fixed stays fixed

```
<div style="position:fixed; left: 50%; top: 50%">
    <img style="height: 5em; position:relative; left: -2.5em"</pre>
</div>
```

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float right float

<img style="height: 5em;</pre> position:absolute; left: 8em; top: 60em"

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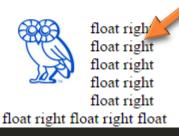


float right float right float right float right float right

float right float right

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```
<img style="height: 5em;
position:absolute; left: 8em; top: 60em"</pre>
```

#### Recall: Inline vs Block

- We markup to control layout. Sometimes we want "blocks" of content that are positioned separately from other blocks.
- Other times we want inline layout or styling

# Inline Slock <br/> <br/> <em><br/> <br/> <br/> <span>

We can control using display

#### Display

```
tempor incididunt ut labore et dolore magna aliqua.
Ut enim ad
minim veniam, quis nostrud exercitation ullamco
```

```
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed lo eiusmod tempor incididunt
ut labore et dolore magna aliqua. Ut enim ad minim venian, quis nostrud exercitation
ullamco laboris nisi ut aliquip ex ea commodo consequat Duis aute irure dolor in
reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint
                                                                        ollit anim id est
oc ut labore et dolore magna aliqua.
lal <span style="border: 1pt dashed red">
<span style="visibility:hidden">Ut enim ad minim
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt
ut labore et dolore magna aliqua.
```



```
pariatur.
```

```
reprehenderit in kimg style="float:left; margin: 1em; height: 4em;"
              src="Rice_Owl_small.jpg">
Excepteur sint ocimg style="display:none; float:left; margin: 1em;
deserunt mollit aheight: 4em; src="Rice_Owl_small.jpg">
              Excepteur sint occaecat cupidatat non proident,
```

#### CONTAINER <DIV> ... </DIV>

Content before the float will appear here.

Left Floating Element <div style="float: left"> Content after both floats will appear here. It flows around the floating elements. Right Floating Element <div style="float: right;">

We clear the floats here. <div style="clear: both;">

Content after the clear will appear here.

#### More more more !!!

- Text-align: (left|center|right|justify)
- Vertical-align: (baseline|sub|super|top|texttop|middle|...)
- Text-shadow: 0.1em 0.1em #ff0022;
- Max-width / min-width / maxheight / min-height
- Border-radius
- outline
- Box-shadow

- Overflow: (visible|hidden|scroll|auto|inherit)
- Positioning z-index
- Cursor: (crosshair|default|pointer|...)
- Transition
- Transform
- Opacity
- Filter
- gradients

#### Non-inline CSS: Selectors

```
/* CSS Comment */
selector {
    key: value;
}
```

- No nesting
- Selectors are "rules"

```
div > tr.fancy #rule
```

#### Selector Rules (the easy ones)

```
body {
             background-color: #FFFFFF;
• Tag
         .linkInverted {
             color: #FFFF00;
• Class
• Id
         #riceLogo {
             width: 6em;
             margin-top:-1em;
             margin-bottom:-1em;
```

Attribute

```
[name="fancy"] {
    font-size: 2em;
}
```

#### Selector Rules (some combinators)

- div, p
  - Select all <div> and all

- div p
  - Select all directly within a <div>
- div > p
  - Select all with an eventual parent of <div>

(slightly edited)

#### cross-browser example from w3schools

```
ul {
                                ul {
    list-style-type: none;
                                   list-style-image: url('sqpurple.gif');
    padding: 0px;
    margin: 0px;
ul li:hover {
    background-color: #444444;
ul li {
    background-image: url(sqpurple.gif);
    background-repeat: no-repeat;
    background-position: 0px center;
    padding-left: 15px;
```

```
Coffee
Coca Cola
```

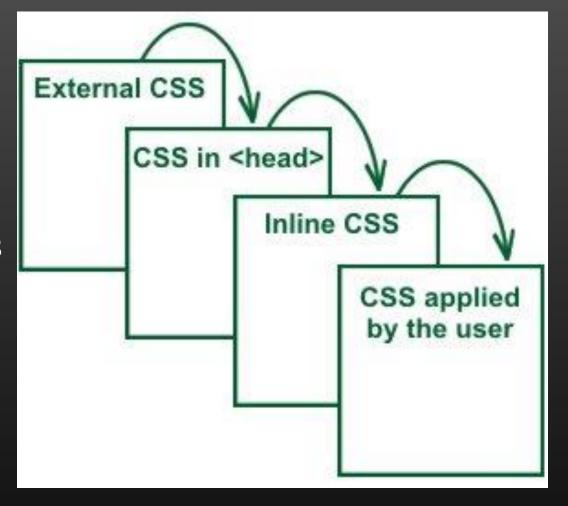
```
:hover is a "state selector"
:active, :focus, :link, :visited,
```

#### ... spaces matter in selectors

- div.myclass#myid
  - Selects <div class="myclass" id="myid">
- div .myclass #myid
  - Selects some element with id="myid" that is contained within an element with class="myclass" that is contained within a <div>. E.g.,

#### Cascading

- Style sheets cascade
- Externally imported or linked sheets
  - In order
- Followed by internal styles
- Then inline
- Finally overrides in the browser



 Not everything cascades. E.g., border doesn't. border: inherit

### Style Cascade Order (in reverse)

Priority	CSS Source Type	Description
1	Importance	The '!important' annotation overwrites the previous priority types
2	Inline	A style applied to an HTML element via HTML 'style' attribute
3	Media Type	A property definition applies to all media types, unless a media specific CSS defined
4	User defined	Most browsers have the accessibility feature: a user defined CSS
5	Selector specificity	A specific contextual selector (#heading p) overwrites generic definition
6	Rule order	Last rule declaration has a higher priority
7	Parent inheritance	If a property is not specified, it is inherited from a parent element
8	CSS property definition in HTML document	CSS rule or CSS inline style overwrites a default browser value
9	Browser default	The lowest priority: browser default value is determined by W3C initial value specifications

#### Style Computation by Specificity

(style attribute),(id),(attributes+class),(element)

```
{} /* specificity = 0,0,0,0 */
li
              {} /* specificity = 0,0,0,1 */
li:first-line {} /* specificity = 0,0,0,2 */
             {} /* specificity = 0,0,0,2 */
ul li
             \{\}\ /* specificity = 0,0,0,3 */
ul ol+li
h1 + *[rel=up]{} /* specificity = 0,0,1,1 */
ul ol li.red {} /* specificity = 0,0,1,3 */
li.red.level \{\} /* specificity = 0,0,2,1 */
          {} /* specificity = 0,1,0,0 */
#x34y
                 /* specificity = 1,0,0,0 */
style=""
```

#### Something to consider: Desktop vs Mobile

- Different sized viewports
- Text flow
- Layout
- Scaling and zooming

#### The Drive for Style

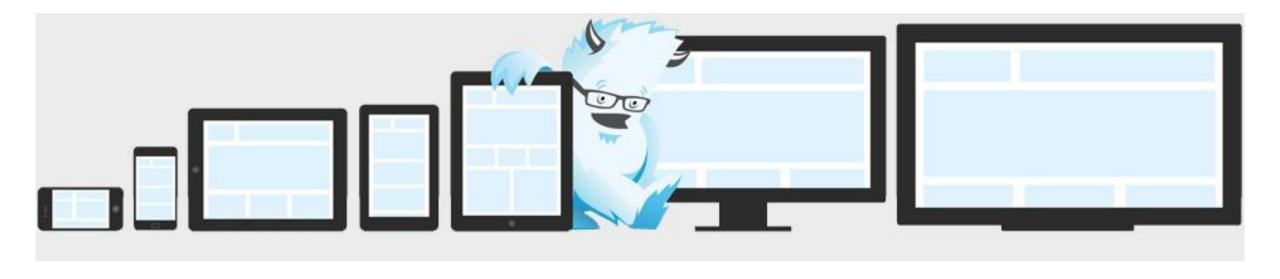
- We want awesome looking web pages
- Writing a bunch of CSS styling is... hard
- Especially having to do it multiple times for various devices
- Someone else has already done it for us
- Let's build on the shoulders of giants

#### (Responsive) Style Frameworks

#### Wikipedia says:

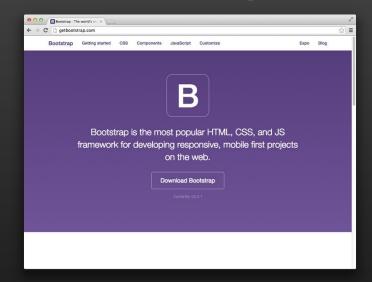
- **Frameworks** are pre-prepared <u>software frameworks</u> that are meant to allow for easier, more standards-compliant <u>web design</u> using CSS
- Most of these frameworks contain at least a grid.
- More functional frameworks also come with more features and additional <u>JavaScript</u> based functions, but are mostly design oriented and <u>unobtrusive</u>.
- This differentiates these from functional and full <a href="IS frameworks">IS frameworks</a>.

### Responsive Framework



#### The Top Contenders

#### (not rigorously determined...)







## Installing Bootstrap

#### Bootstrap CDN

The folks over at MaxCDN graciously provide CDN support for Bootstrap's CSS and JavaScript. Just use these Bootstrap CDN links.

```
<!-- Latest compiled and minified CSS -->
link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap.min.css">

<!-- Optional theme -->
link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/css/bootstrap-theme.min.css">

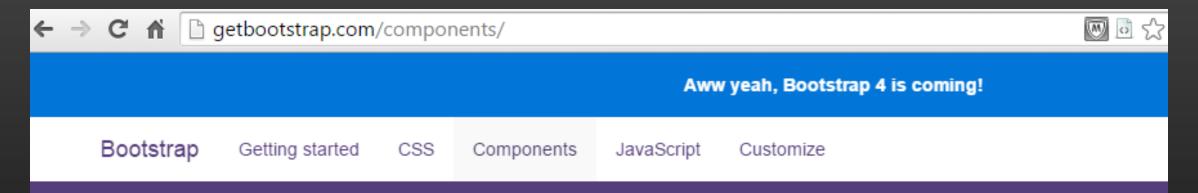
<!-- Latest compiled and minified JavaScript -->
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js">
</script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scrip
```

## http://getbootstrap.com/http://www.w3schools.com/bootstrap/

## Using Bootstrap

```
Username
<input type="text" placeholder="Username">
                                                   Click Me!
<br>
<input type="button" value="Click Me!">
                                                        Username
                                                    6
<br><br><br>>
                                                    Click Me!
<div class="row">
  <div class="col-xs-6 col-md-3">
    <div class="input-group">
      <span class="input-group-addon glyphicon glyphicon-camera">
      </span>
      <input type="text" class="form-control" placeholder="Username">
   </div>
    <br><input type="button" class="btn btn-primary" value="Click Me!">
  </div>
</div>
```

#### More Bootstrap



# Components

Over a dozen reusable components built to provide iconography, dropdowns, input groups, navigation, alerts, and much more.

## Viewport

<meta name="viewport" content="width=device-width, initial-scale=1">

- User "viewable" area
- Set the width to the device—width
- Set the initial scaling





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# VEWPORTSZES

#### iPhone

Device Name	Platform	OS Version	Portrait Width	Landscape Width	Release Date
iPhone	iOS	3.1.3	320	480	2007-06
iPhone 3G	iOS	4.2.1	320	480	2008-07
iPhone 3GS	iOS	6.0a2	320	480	2009-06
iPhone 4	iOS	5.1.1	320	480	2010-06
iPhone 4S	iOS	4.3.5	320	480	2011-10

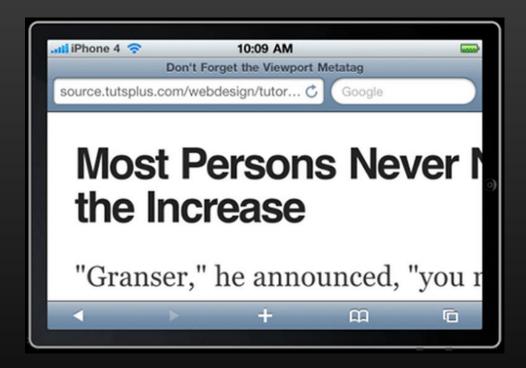
#### Viewport <meta> vs CSS

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
@viewport{
    zoom: 1.0;
    width: device-width;
}
```

Recommendation: Do both.

## Viewing in Landscape



width=device-height

#### Don't set width? only scale/zoom?

```
@viewport{
      zoom: 1.0;
      width: extend-to-zoom;
                10:11 AM
iPhone 4 🤝
          Don't Forget the Viewport Metatag
source.tutsplus.com/webdesign/tutor... C
Most Perso
                   Recommendation:
the Increas
                  width=device-width
"Granser," he an
                      and field test
with your gabble
Red Death? If yo
                           m
                                    6
```

## CSS @media queries

```
@media screen and (max-width: 300px) {
    body {
    background-color: lightblue;
  }
}
```

```
<link rel="stylesheet" type="text/css" href="style.css" media="screen,
handheld" />
<link rel="stylesheet" type="text/css" href="enhanced.css"
media="screen and (min-width: 40.5em)" />
<!--[if (lt IE 9)&(!IEMobile)]>
<link rel="stylesheet" type="text/css" href="enhanced.css" />
<![endif]-->
```

### ... bad code is everywhere

useless comments

```
//Check if Mobile
function checkMobile() {
  if(sw > breakpoint) {
    mobile = false; //Not Mobile
  } else {
                                         Just use the Boolean!
    mobile = true; //Mobile
  if (!mobile) { //If Not Mobile
    loadAux();
                 //Check if Mobile
                 function checkMobile() {
                        mobile = (sw > breakpoint) ? false : true;
                        if (!mobile) { //If Not Mobile
                               loadAux();
```

Not descriptive

#### Better Responsive Images

nttp://blog.cloudfour.com/dont-use-picture-most-of-the-time/

### Better Responsive Images



By Pearl Chen

Published: September 11th, 2014

**Updated:** September 11th, 2014

Comments: 42

#### Introducing the <picture> element

#### Don't use <picture> (most of the time)

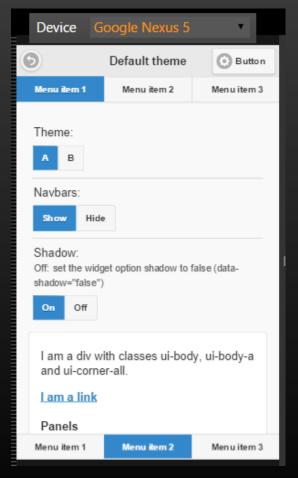


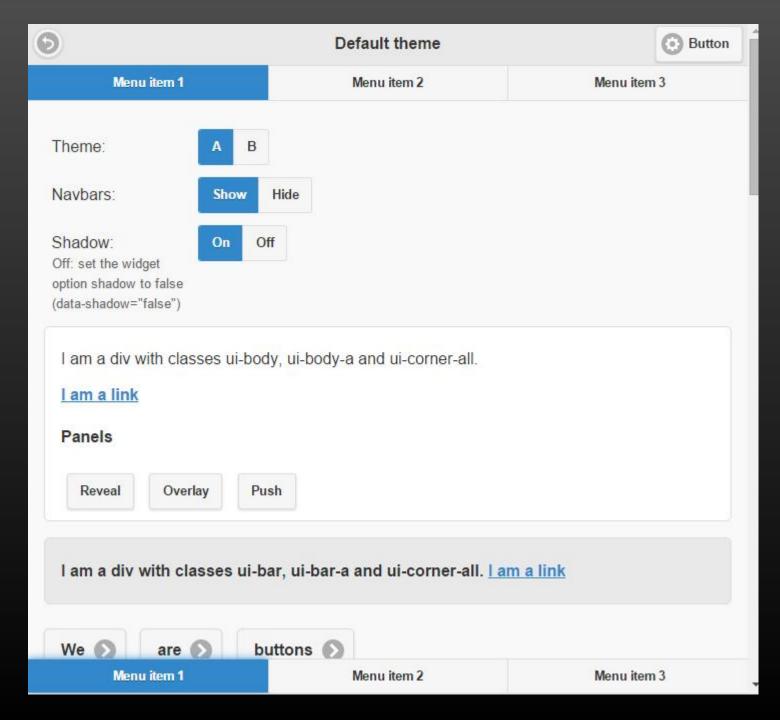
**Jason Grigsby** September 22, 2014

Browser support for the picture specification is landing and as Marcos

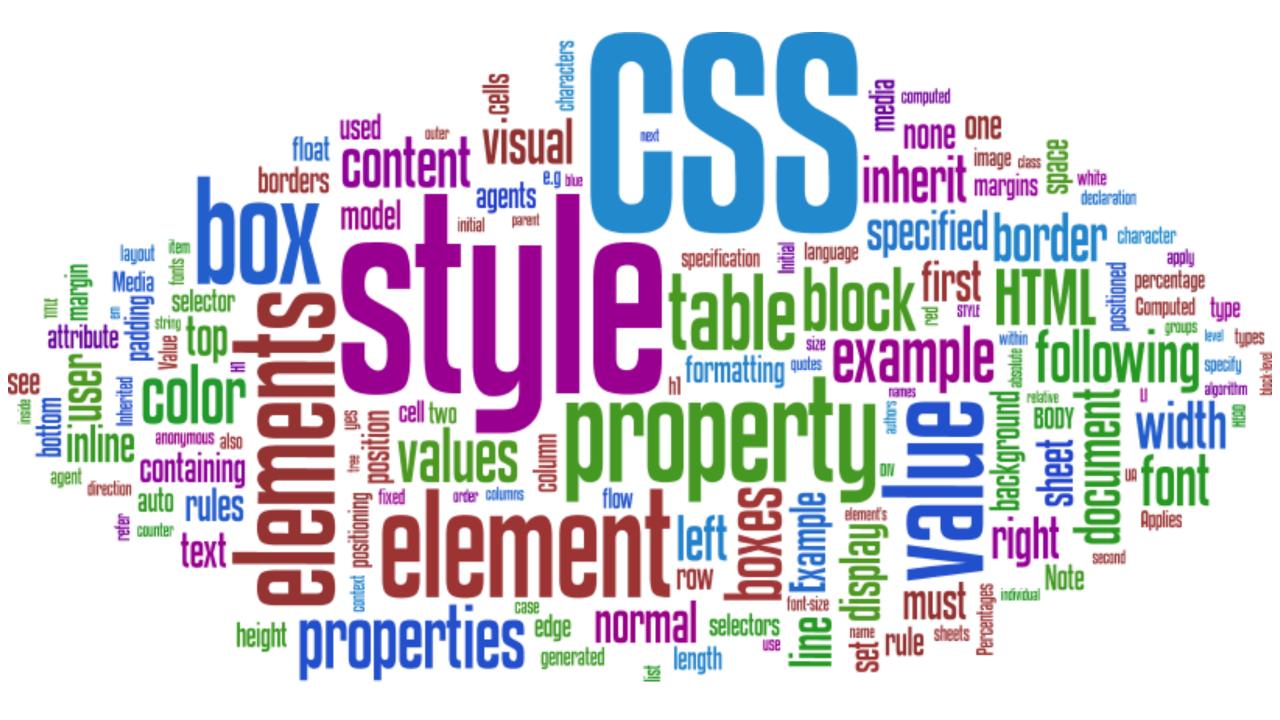
Cáceres said, it is time to "go forth and <picture> all the things!"

# Mobile First with jQuery Mobile





https://jquerymobile.com/



#### References

• w3schools

• CSS Zen garden

• CSS-tricks (Chris Coyler)