



# Introduction to HTML / CSS

# HTML



HyperText  
Markup  
Language



# Responsive Web Design

# Responsive design



Established Nottingham 2003  
THE CELEBRATED NEW MISCELLANY OF  
**MR. SIMON COLLISON**  
\* A.K.A COLLY \*

<p><i>Bottled for your pleasure</i> <b>POTTED AUTOBIOGRAPHY</b></p>  <p><b>H</b>ello. I'm a designer. I also do plenty of writing, speaking, and sleeping. I'm based in Nottingham, England, but my work means I'm often found in all sorts of other fine places. <a href="#">Please read on</a> →</p>	<p><i>Dropping science like it's hot</i> <b>THE SPLENDID JOURNAL</b></p>  <p><b>S</b> 2013 a year in review This is the fourth end-of-year review I've written and as ever it's a personal reflection that I think I'll enjoy reading in twenty years or whenever... <a href="#">More</a> →</p>	<p><i>Catalogued nocturnal matter</i> <b>EXHAUSTIVE ARCHIVES</b></p>  <p><b>865</b>—2013 in music <b>863</b>—Yet another year in review <b>862</b>—Yet another year in music <b>864</b>—iPhone video experiment <b>861</b>—Creative Montage NYC</p>	<p><i>Mr. Collison is currently</i> <b>RECEIVING YOUR EMAILS</b></p>  <p><b>O</b>pinions &amp; quotes this way Drop me a line if you wish. I'm always interested in new projects and opportunities and will of course do my best to reply to your emails swiftly and efficiently →</p>
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[EXTERNAL REFERENCES \(VIEW ALL\)](#)

<p><i>A very proud member of these</i> <b>FICTIVE KIN</b></p> 	<p><i>Retro-filtered iPhone Photos</i> <b>INSTAGRAM PHOTOS</b></p> 	<p><i>Images from the field</i> <b>FLICKR PHOTOGRAPHS</b></p> 	<p><i>The tweets of @collily</i> <b>FOLLOW ME ON TWITTER</b></p> 
<p><i>Conference and speaking history</i> <b>LANYRD PROFILE</b></p> 	<p><i>Writing about travel experiences</i> <b>HI MOMENTS</b></p> 	<p><i>Shaky picks of my designs</i> <b>DRIBBBLE SHOTS</b></p> 	<p><i>Mr. Collison organizes some</i> <b>NEW ADVENTURES</b></p> 

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- Friends, family mourn apparent beheading of Peter Kassig
- Jacoby: Why does ISIS behead its victims?

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**Editorial**

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- A look at the Innovation District
- Photos: Boston's Innovation District

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**MORE HEADLINES**

Ashland crash leaves one dead, one seriously injured

Financial firms lobby hard against stricter protections

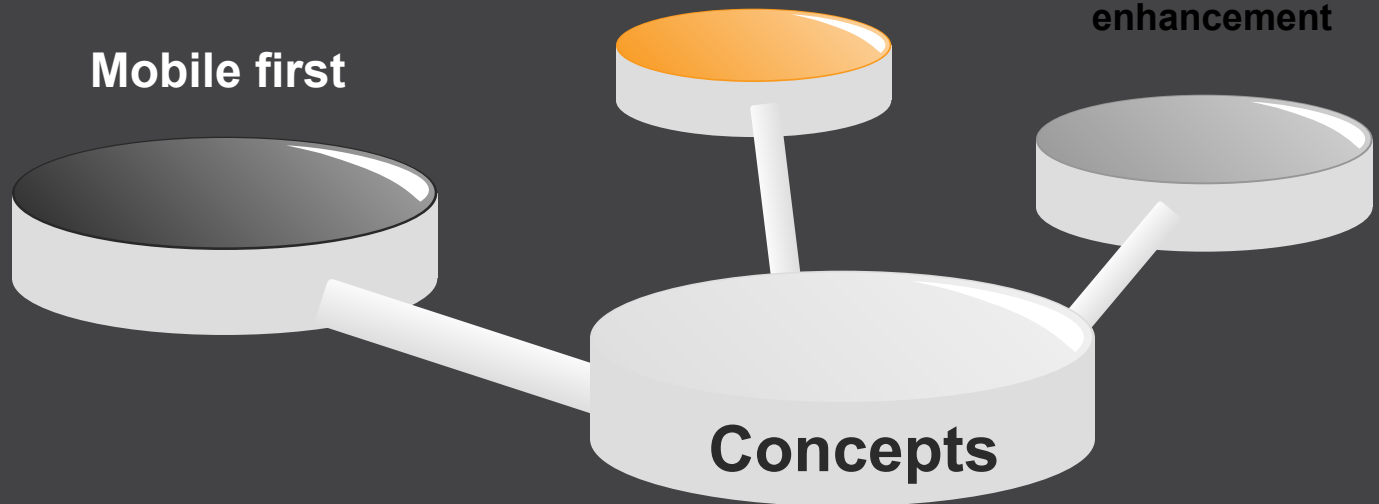
# Responsive design



Unobtrusive JavaScript

Mobile first

Progressive enhancement



# Media Queries



```
<!-- CSS media query on a link element -->
```

```
<link rel="stylesheet" media="screen" href="example.css" />
```

```
<!-- The only keyword prevents older browsers that do not support media queries  
with media features from applying the given styles -->
```

```
<link rel="stylesheet" media="only screen and (color)" href="example.css" />
```

# Media Queries



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<!-- The only keyword prevents older browsers that do not support media queries  
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<link rel="stylesheet" media="only screen and (color)" href="example.css" />
```

```
/* CSS media query within a stylesheet */  
@media all and (min-width:500px) { ... }  
@media (orientation: portrait) { ... }  
@media not (all and (monochrome)) { ... }
```



# Media Features



Feature	Value	Min/Max	Description
color	integer	yes	number of bits per color component
device-aspect-ratio	integer/integer	yes	aspect ratio
device-height	length	yes	height of the output device
device-width	length	yes	width of the output device
height	length	yes	height of the rendering surface
monochrome	integer	yes	number of bits per pixel in a monochrome frame buffer
orientation	landscape/portrait	no	Specifies the whether the display is in landscape mode or portrait mode
resolution	resolution ("dpi" or "dpcm")	yes	1 Dots per inch = 0.3937008 Dots per cm
width	length	yes	width of the rendering surface

# Device specific breakpoints



```
/* Smartphones (portrait and landscape) */
@media only screen and (min-device-width : 320px) and (max-device-width : 480px) {
  /* Styles */
}

/* Samsung Galaxy S5 */
@media only screen and (min-device-width: 360px) and (max-device-height: 640px) and
(orientation : landscape) and (-webkit-device-pixel-ratio: 3){
  /* Styles */
}
@media only screen and (min-device-width: 360px) and (max-device-height: 640px) and
(orientation : portrait) and (-webkit-device-pixel-ratio: 3){
  /* Styles */
}

/* iPhone 6 */
@media only screen and (min-device-width: 375px) and (max-device-height: 667px) and
(orientation : landscape) and (-webkit-device-pixel-ratio: 2){
  /* Styles */
}
@media only screen and (min-device-width: 375px) and (max-device-height: 667px) and
(orientation : portrait) and (-webkit-device-pixel-ratio: 2){
  /* Styles */
}
```

# Device specific breakpoints



```
/* iPads (portrait and landscape) */
@media only screen and (min-device-width : 768px) and (max-device-width : 1024px) {
  /* Styles */
}
/* iPads (landscape) */
@media only screen and (min-device-width : 768px) and (max-device-width : 1024px)
and (orientation : landscape) {
  /* Styles */
}

/* iPads (portrait) */
@media only screen and (min-device-width : 768px) and (max-device-width : 1024px)
and (orientation : portrait) {
  /* Styles */
}

/* Desktops and laptops */
@media only screen and (min-width : 1024px) {
  /* Styles */
}

/* Large screens */
@media only screen and (min-width : 1824px) {
  /* Styles */
}
```

# Good job!

