Introduction to HTML / CSS
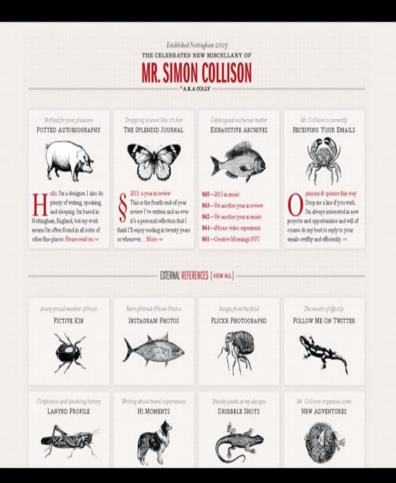
HTML

HyperText Markup Language

Responsive

Web Design

Responsive design

Responsive design

Responsive design

Unobtrusive JavaScript

Progressive enhancement

Mobile first

Concepts

Media Queries

```html
<!-- 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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```

```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

```css
/* 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

```css
/* 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!