



CSS Pro

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Agenda

Topics

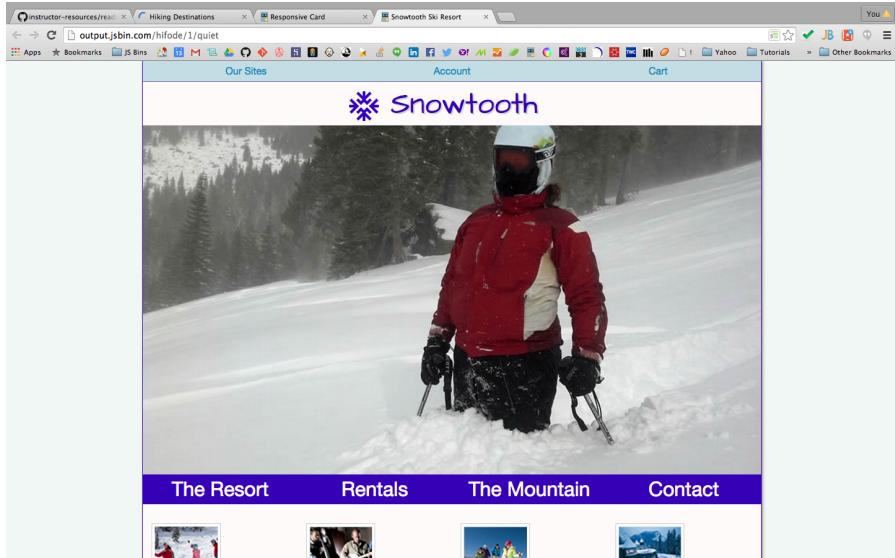
- Transitions
- Animations
- Responsive Design
- Introducing SaSS
- Responsive Frameworks
- Automation with Webpack

Hands On

- Responsive Hikes
- SaSS Challenges
- Snowtooth Layout - Foundation



What We Will Build



A screenshot of a web browser showing a responsive website for "hiking Destinations". It features three cards for different hikes: "Half Dome", "Arches", and "The Granlibakkens". Each card includes a small image, the name of the destination, and a table with distance, time, and difficulty level. Below each card is a short paragraph of placeholder text.

Distance	Time	Difficulty
1mi	12hr	expert

Distance	Time	Difficulty
2mi	8hr	beginner

Distance	Time	Difficulty
3mi	6hr	beginner

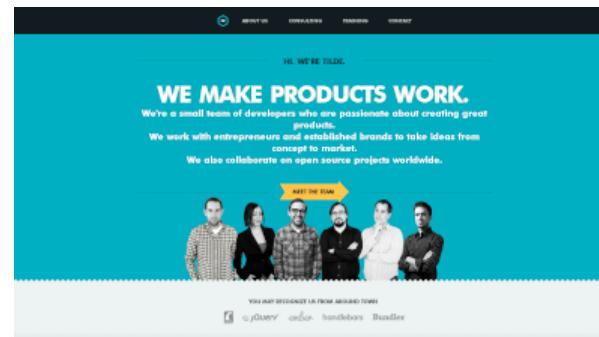
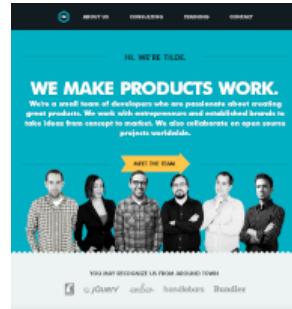


css



Responsive Design

The practice of creating flexible websites that deliver user-friendly experiences on any device.



Responsive Design

Key Components of a Responsive Site

A Flexible Grid.

Flexible Content.

Media Queries.



css



Responsive Design

Key Components of a Responsive Site

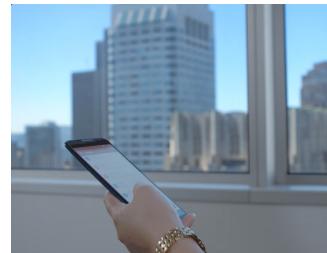
A Flexible Grid.

Flexible Content.

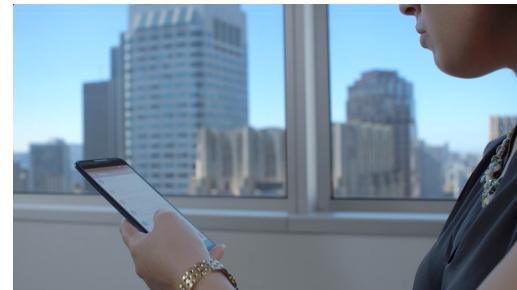
Media Queries.



phone-sm.jpg



phone-md.jpg



phone-lg.jpg

css



Responsive Design

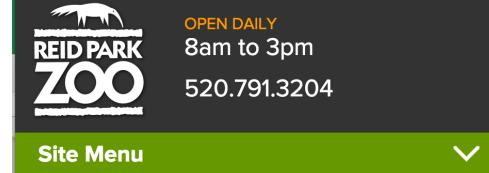
Key Components of a Responsive Site

A Flexible Grid.

Flexible Content.

Media Queries.

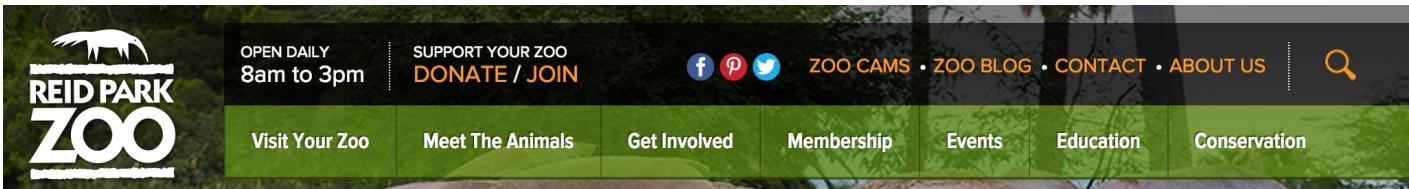
@media only screen(max-width: 600px)



@media only screen(min-width: 601px)



@media only screen(min-width: 800px)



Media Queries

Media Types

Media Feature	Value Type	Example
width	length	960px
height	length	960px
device-width	length	40em
device-height	length	60em
orientation	keyword	portrait, landscape
aspect-ratio	ratio	4/3
device-aspect ratio	ratio	16/9
color	integer	min-color:2
color-index	integer	(color index)
monochrome	integer	(monochrome)
resolution	resolution	300dpi
scan	keyword	progressive, interlace
grid	integer	(grid)

Media Queries

Other Media Types

Prefixes Allowed	Example
width	min-width: 960px
height	max-height: 40em
device-width	min-device-width: 480px
device-height	min-device-height: 120px
aspect-ratio	min-aspect-ratio: 16/9
device-aspect ratio	min-device-aspect-ratio: 4/3
color	min-color:2
color-index	min-color-index: 516
monochrome	min-monochrome: 1
resolution	min-resolution: 150dpi

SASS

Syntactically Awesome Stylesheets

A scripting language that is interpreted into CSS.

css

```
h1 {  
  color: green;  
}  
  
div {  
  border: 1px solid green;  
  border-radius: 10px;  
}
```

SASS

```
$primary-color: green  
  
h1  
  color: $primary-color  
  
  =border-radius($radius)  
    border-radius: $radius  
  
div  
  border: 1px solid $primary-color  
  +border-radius(10px)
```

SCSS

Sassy CSS

A newer SASS syntax for CSS3

CSS

```
h1 {  
  color: green;  
}  
  
div {  
  border: 1px solid green;  
  border-radius: 10px;  
}
```

SCSS

```
$primary-color: green;  
  
h1 {  
  color: $primary-color;  
}  
  
@mixin border-radius($radius) {  
  border-radius: $radius;  
}  
  
div {  
  border: 1px solid $primary-color;  
  @include border-radius(10px);  
}
```

LESS

Leaner CSS

Pre-processor for making CSS more maintainable.

CSS

```
h1 {  
  color: green;  
}  
  
div {  
  border: 1px solid green;  
  border-radius: 10px;  
}
```

LESS

```
@base-color: green;  
  
h1 {  
  color: @base-color;  
}  
  
.border-radius {  
  border-radius: 10px;  
}  
  
div {  
  border: 1px solid @base-color;  
  .border-radius;  
}
```

Bootstrap

The Grid



- Open-source
- The most popular project on GitHub
- Used by NASA, MSNBC, Medicare, and more.
- Bootstrap2 supports IE7.
- Bootstrap3 supports IE8.

	Extra Small	Small	Medium	Large
Target	Phones	Tablets	Desktops	Desktops
Width	Less than 768 px	Greater than 768px	Greater than 992px	Greater than 1200px
Class Prefix	.col-xs-	.col-sm-	.col-md-	.col-lg-
Max container width	None (auto)	750px	970px	1170px

Bootstrap

The Grid

.col-md-1											
.col-md-8						.col-md-4					
.col-md-4				.col-md-4				.col-md-4			
.col-md-6						.col-md-6					

Bootstrap

The Grid

.col-xs-12 .col-sm-6 .col-md-8

.col-xs-6 .col-sm-6 .col-md-4

.col-xs-6 .col-sm-4 .col-md-4

.col-xs-6 .col-sm-4 .col-md-4

.col-xs-6 .col-sm-4 .col-md-4

Foundation

Overview

Foundation
ZURB

- Open-source
- Created by ZURB
- Used by Washington Post, United Way, New Balance, and more.
- Supported by Chrome, Firefox, Safari
- Does not support IE7, IE8

	Small	Medium	Large
Width	Smaller than 768px	Greater than 768px	Greater than 980
Class Prefix	small-	medium-	large-

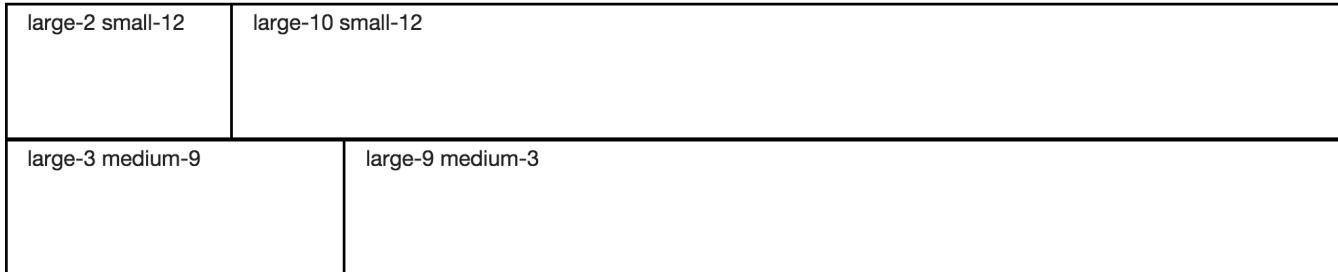
Foundation

The Grid

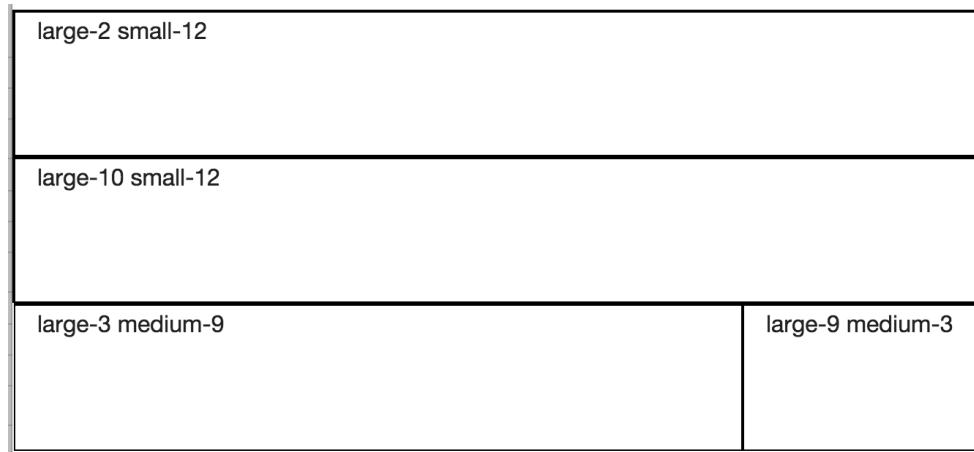
large-2	large-10
large-3	large-9

Foundation

The Grid



Large Screen



Medium Screen

Getting the Files

- Course files are hosted on GitHub.
- Files

www.github.com/moonhighway/css-pro

```
$ git clone https://github.com/moonhighway/css-pro.git
```



Thanks for Attending

- Files

www.github.com/moonhighway/css-pro



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