



RWD

Class 9

Overview

CSS 2 Assignment (15 min)

HTML Layout + Responsive Grids,
Images, Media Queries (1 hour)

Break (5 min)

Atomic Design + Responsive
Patterns (25 min)

Layout/Media Query Assignment
(10 min)

Media Queries Hands-On (30 min)



CSS Basics 2 Assignment

www.rwdkent.com/class/assignments/css2



HTML Layout, Flexible Grids and Media Queries



HTML 5 Elements

Indicate the purpose of elements

Help describe structure

Easily style without adding classes (less
DIVs)



HTML 5 Elements

```
<body>
<div id="page">
  <div id="header">
    <div id="nav">
  </div>
  <div id="content">
    <div class="article">
  </div>
    <div class="article">
  </div>
  <div id="sidebar">
  </div>
  <div id="footer">
  </div>
</div>
```



HTML 5 Elements

```
<body>
<div id="page">
  <div id="header">
    <div id="nav">
  </div>
  <div id="content">
    <div class="article">
  </div>
    <div class="article">
  </div>
  <div id="sidebar">
  </div>
  <div id="footer">
  </div>
</div>
```



HTML 5 Elements

header

footer

nav (use ul)

article

aside

section

hgroup

figure



Responsive Web Design

Percentage-Based Grids

Flexible Images

Media Queries



Percentage-Based Grids

target / context = result

<http://codepen.io/challahan/professor/EVEGMv>

<http://codepen.io/challahan/professor/WQzPbQ/>



Fluid Images

<http://codepen.io/challahan/professor/yYKZbb/>

```
img {  
    max-width: 100%;  
}
```



Media Query

```
@media screen and (min-width: 600px) {  
    /* Stuff Goes Here */  
}
```

```
@media screen and (max-width: 1200px) {  
    /* Stuff Goes Here */  
}
```



Media Query

```
@media screen and (min-width: 600px) and (max-width: 1200px) {  
    /* Stuff Goes Here */  
}
```

```
@media screen and (min-height: 600px) {  
    /* Stuff Goes Here */  
}
```



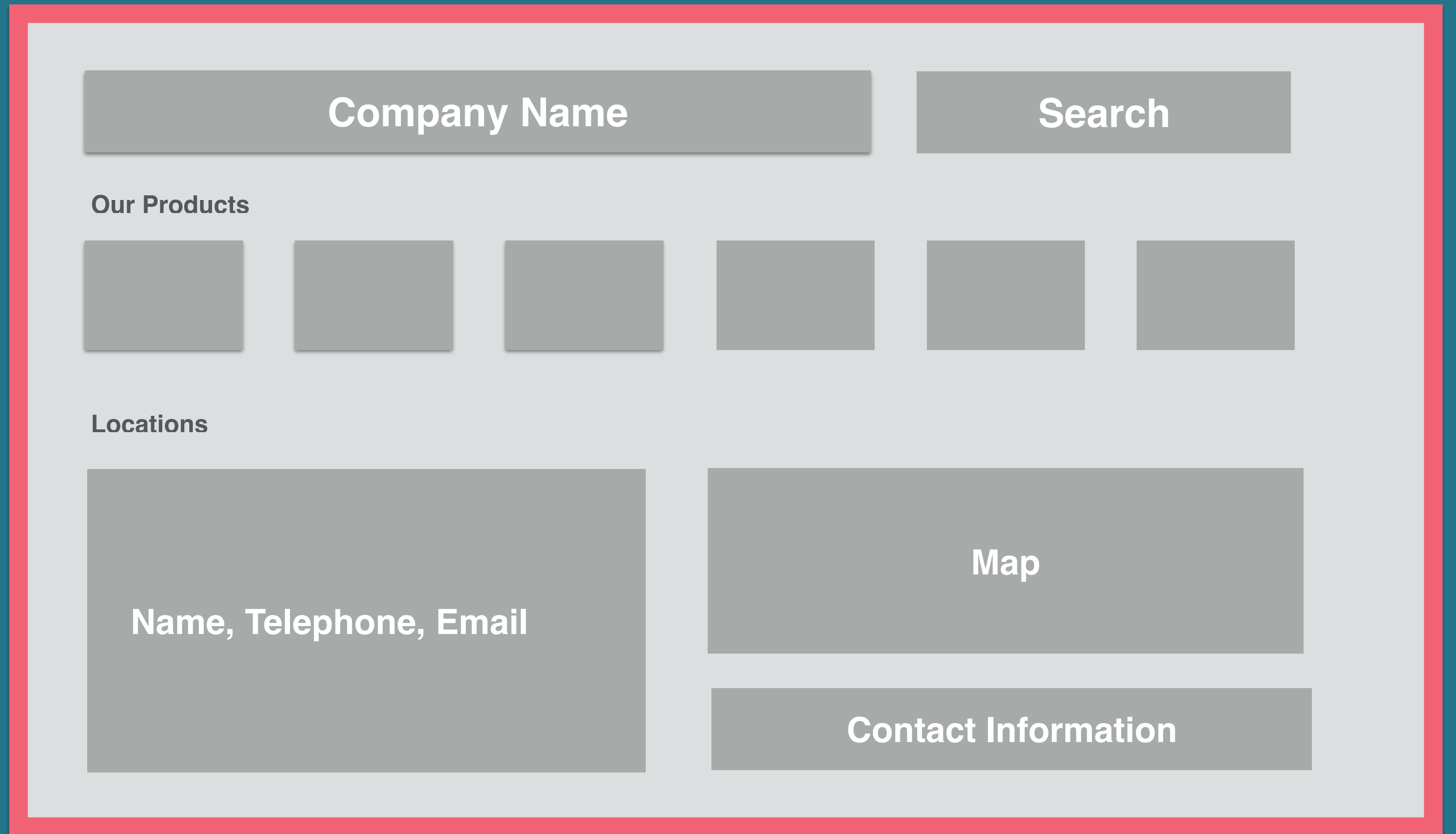
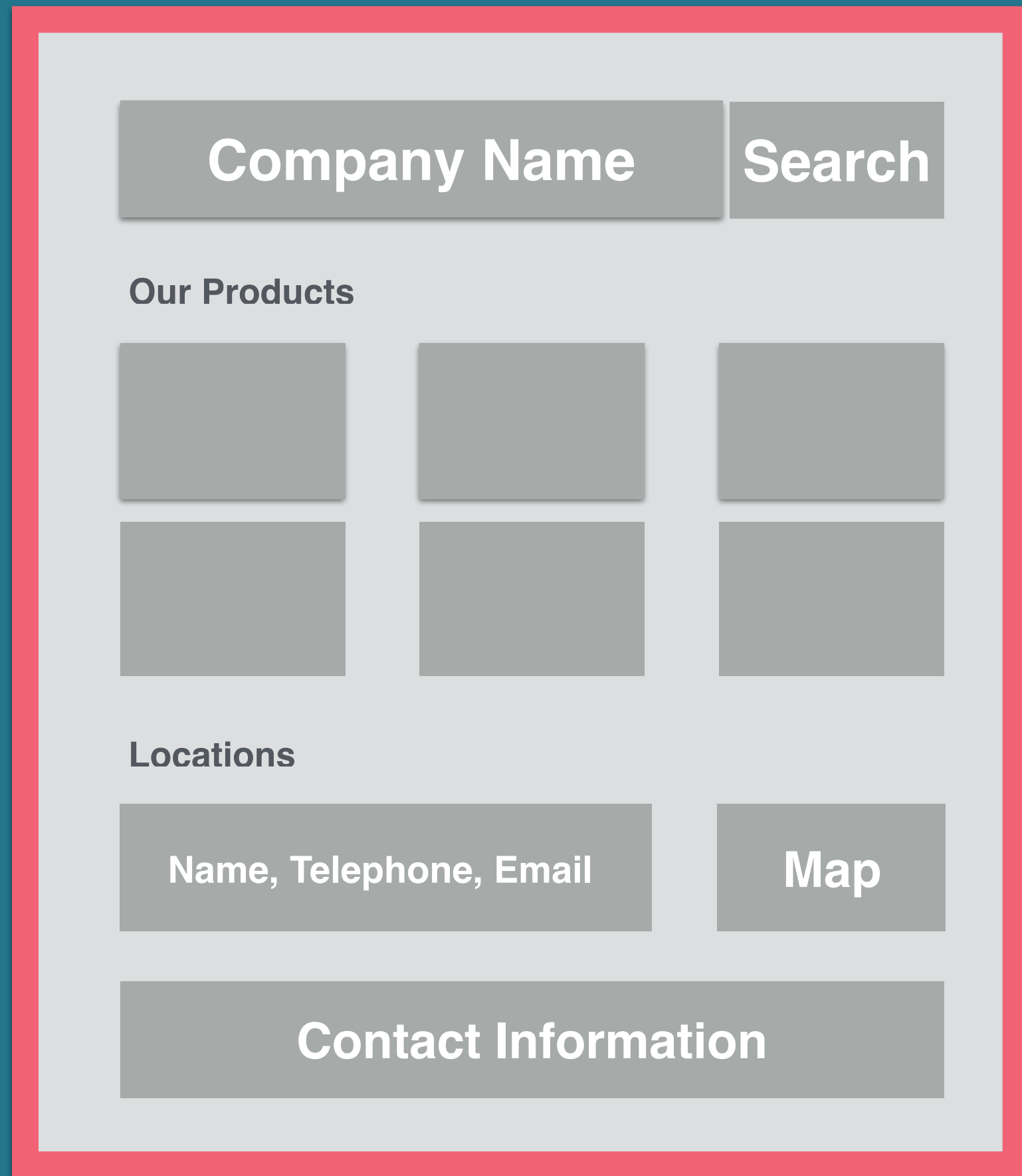
Breakpoint

Size at which the page layout or design “breaks”

Can have multiple breakpoints per layout

Let design (not device) dictate breakpoints





Breakpoint: 1000px wide



Media Query

width

height

device-width

device-height

orientation

aspect-ratio

device-aspect ratio

color

color-index

monochrome

resolution

scan



Magic Meta Tag

```
<meta name="viewport" content="initial-scale=1.0, width=device-width" />
```

Example: <http://codepen.io/challahan/professor/yYKZbb/>



Break



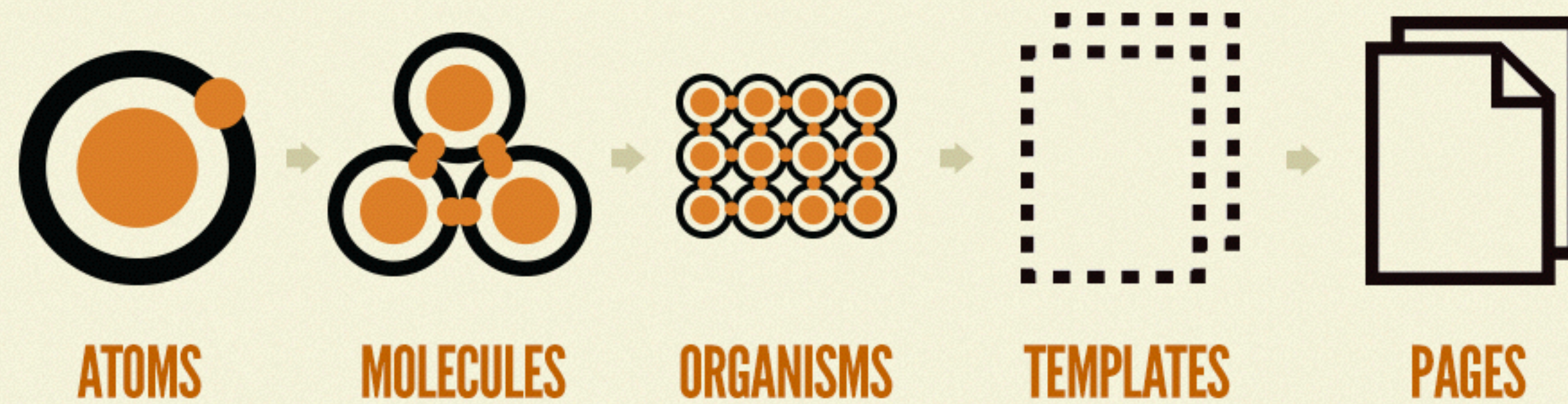
Atomic Design + Responsive Patterns



“We’re not designing pages, we’re designing
systems of components.”

Stephen Hay





What Does This Mean?

<http://bradfrost.com/blog/post/atomic-web-design/>



Atoms

SEARCH THE SITE

LABEL

ENTER KEYWORD

INPUT

SEARCH

BUTTON



Molecules

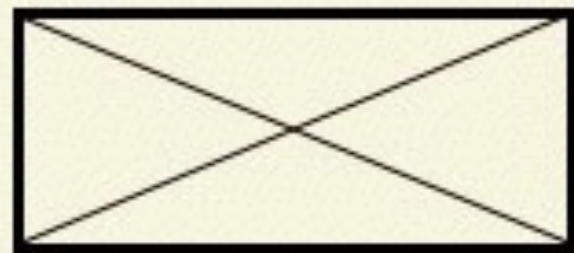
SEARCH THE SITE

ENTER KEYWORD

SEARCH



Organisms



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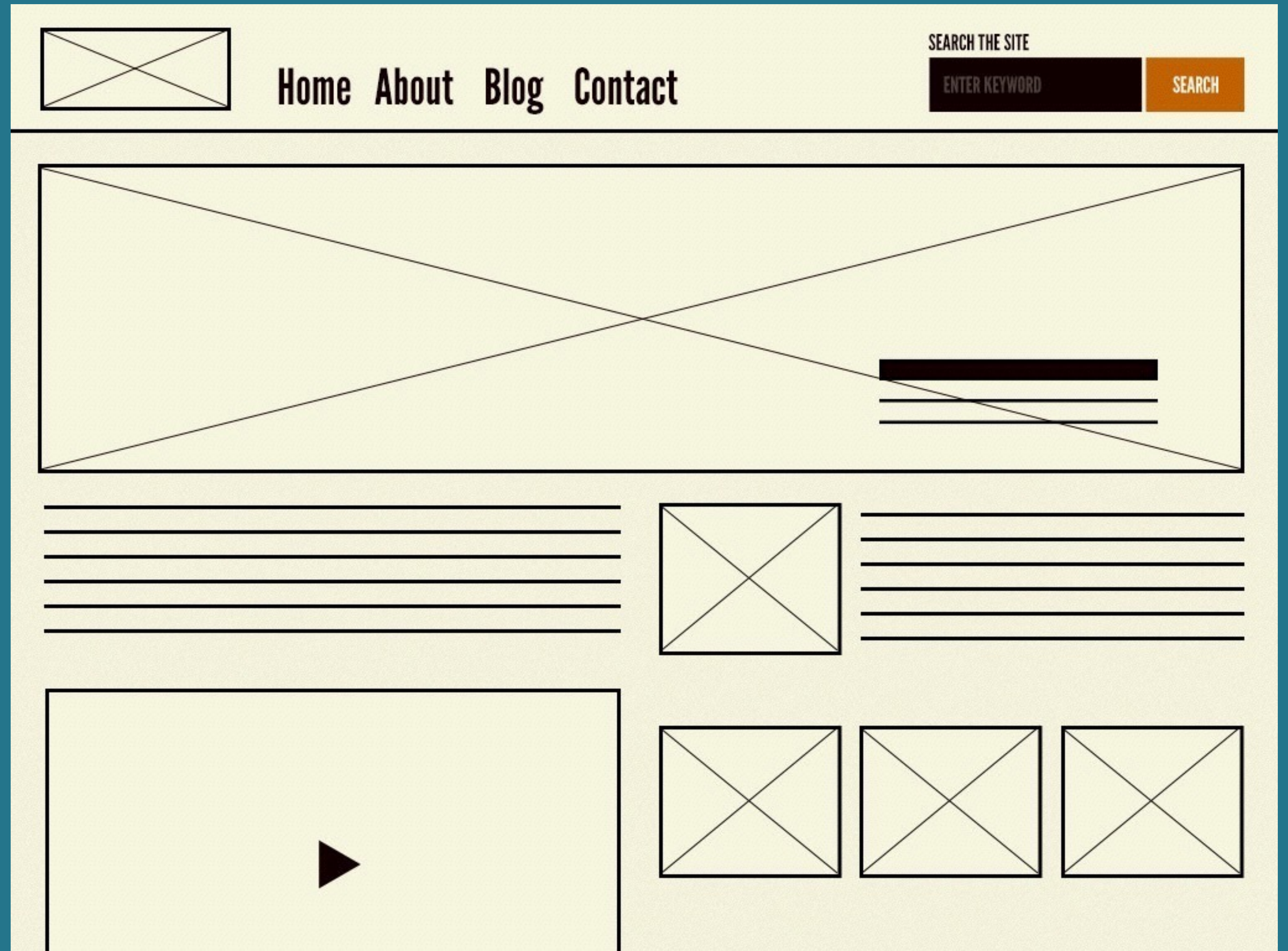
SEARCH THE SITE

ENTER KEYWORD

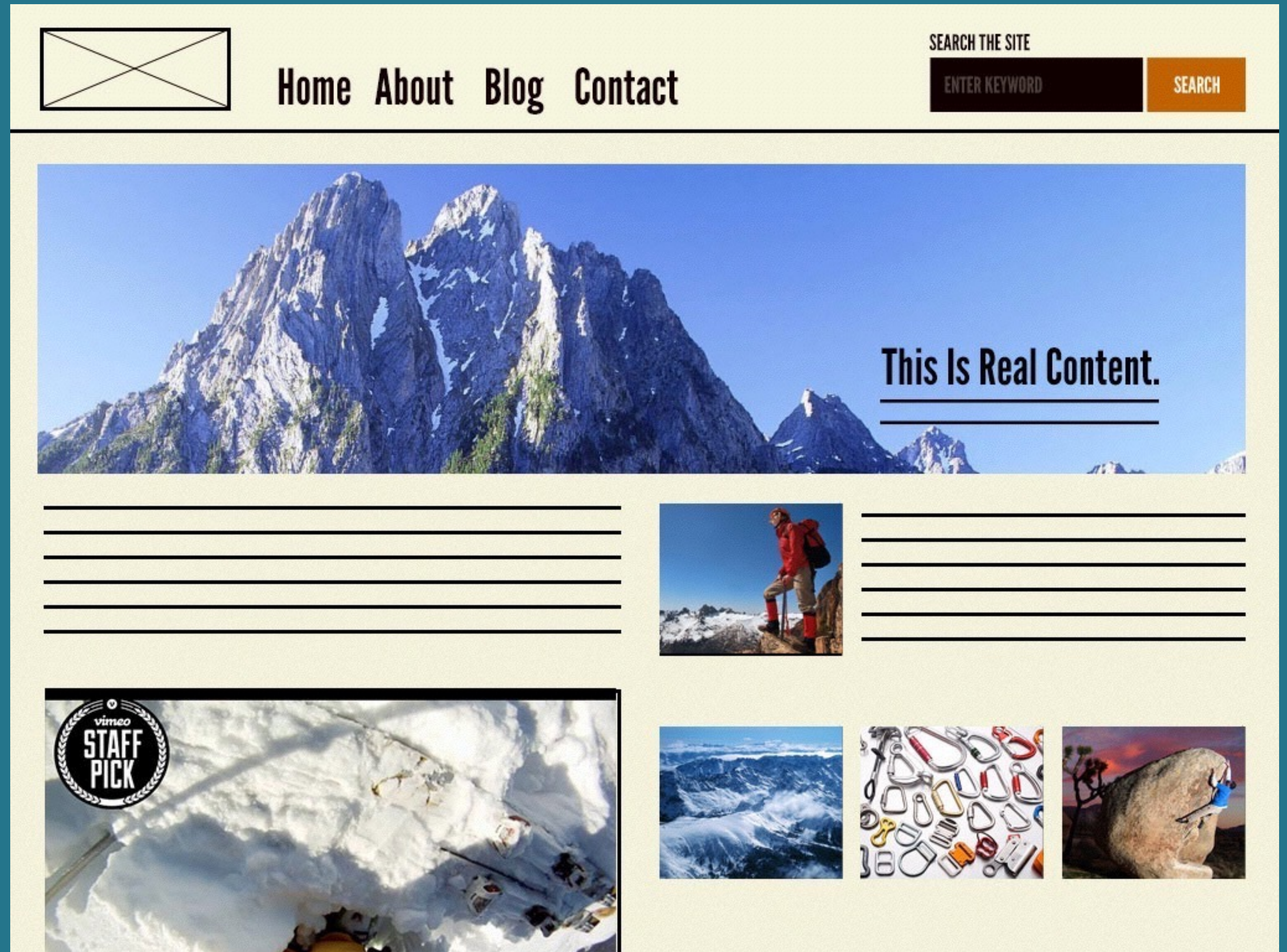
SEARCH

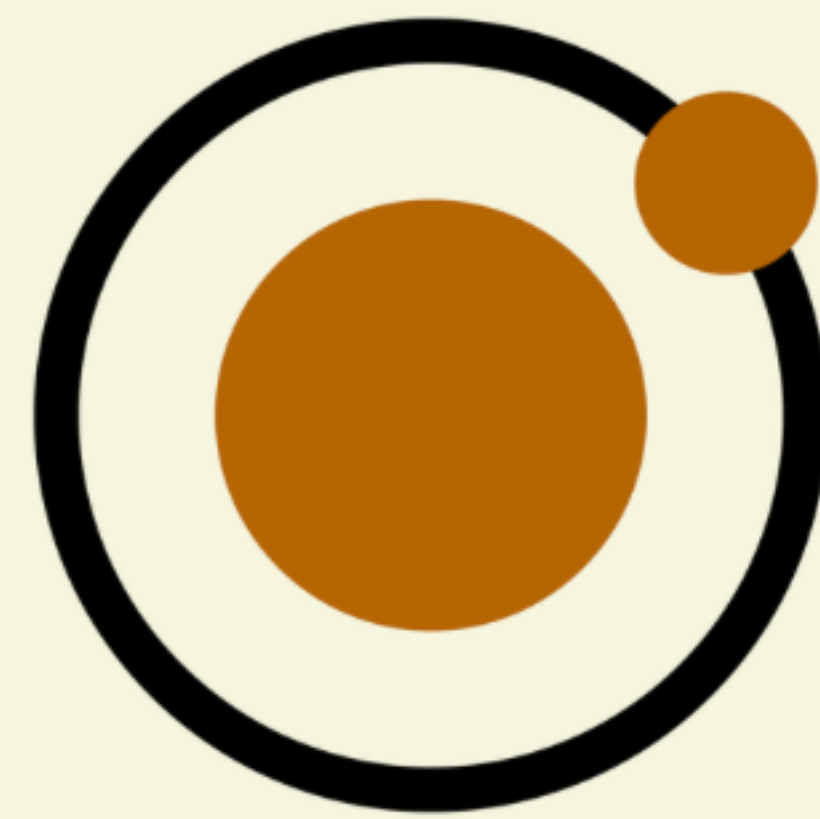


Templates



Pages





Atomic Design

Brad Frost



Responsive Deliverables

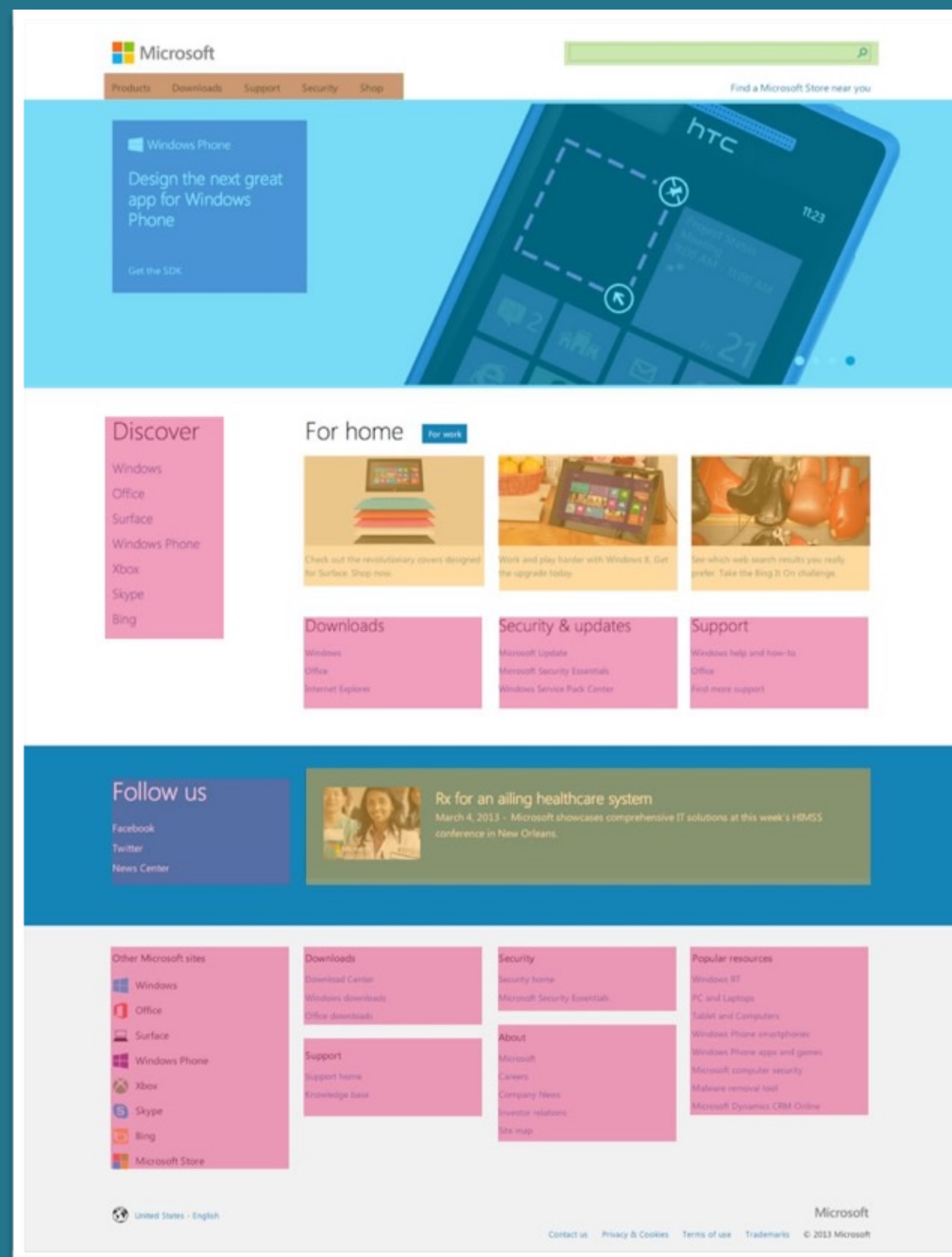
Dave Rupert



“Tiny Bootstraps, for Every Client”

Dave Rupert





Responsive Design Patterns

<https://bradfrost.github.io/this-is-responsive/patterns.html>



CSS Media Queries/ Layout Assignment

www.rwdkent.com/class/assignments/layout



CSS Media Queries/ Layout Hands-On

www.rwdkent.com/class/assignments/layout

