



# RWD

## Class 9

@rwdkent

# Overview

**CSS 2 Assignment (15 min)**

**Tyler Clark (30 min)**

**HTML Layout + Responsive Grids,  
Images, Media Queries (45 min)**

**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](http://www.rwdkent.com/class/assignments/css2)



# Tyler Clark



# 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/?editors=1100>



# 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 */  
}
```



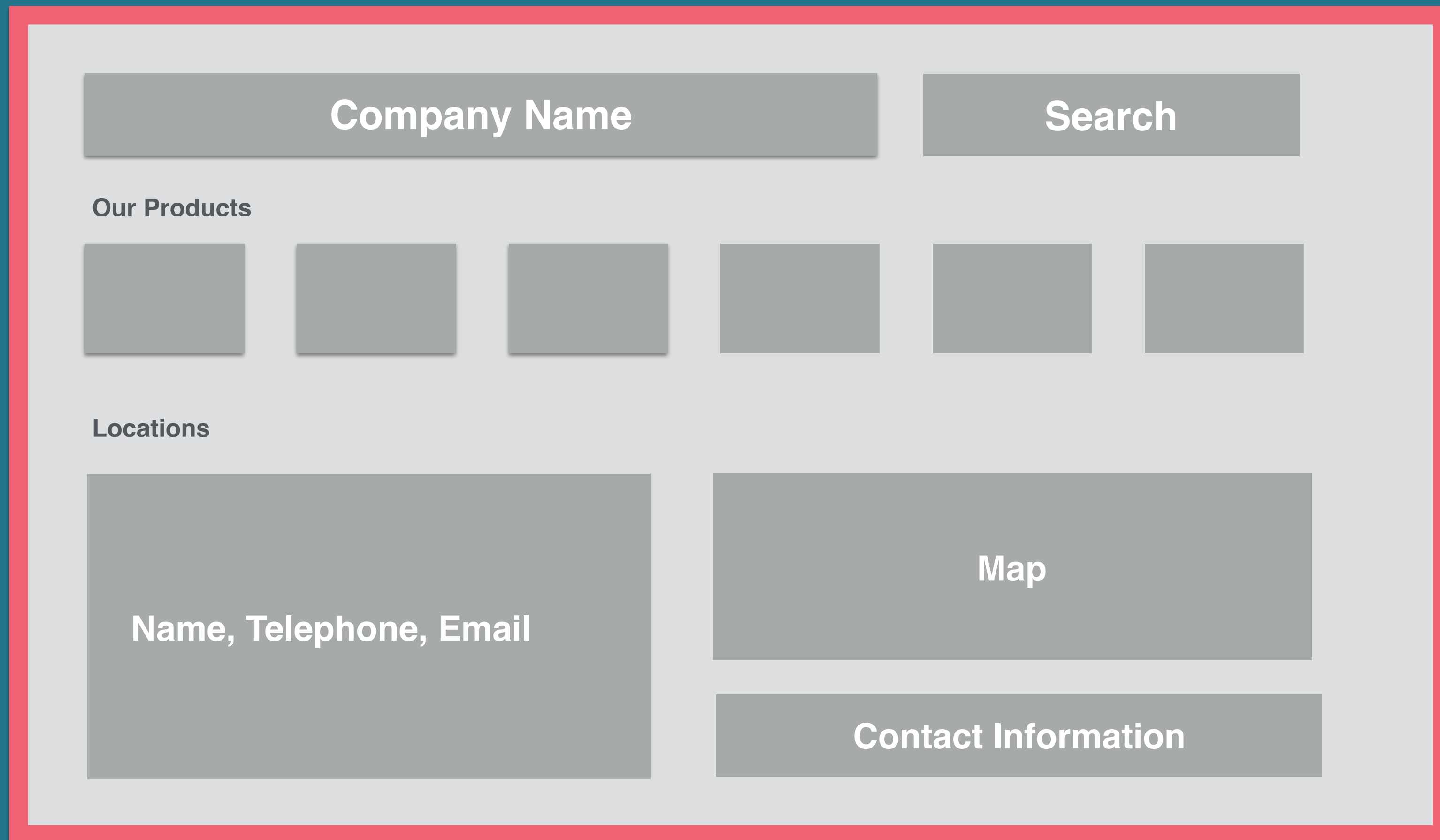
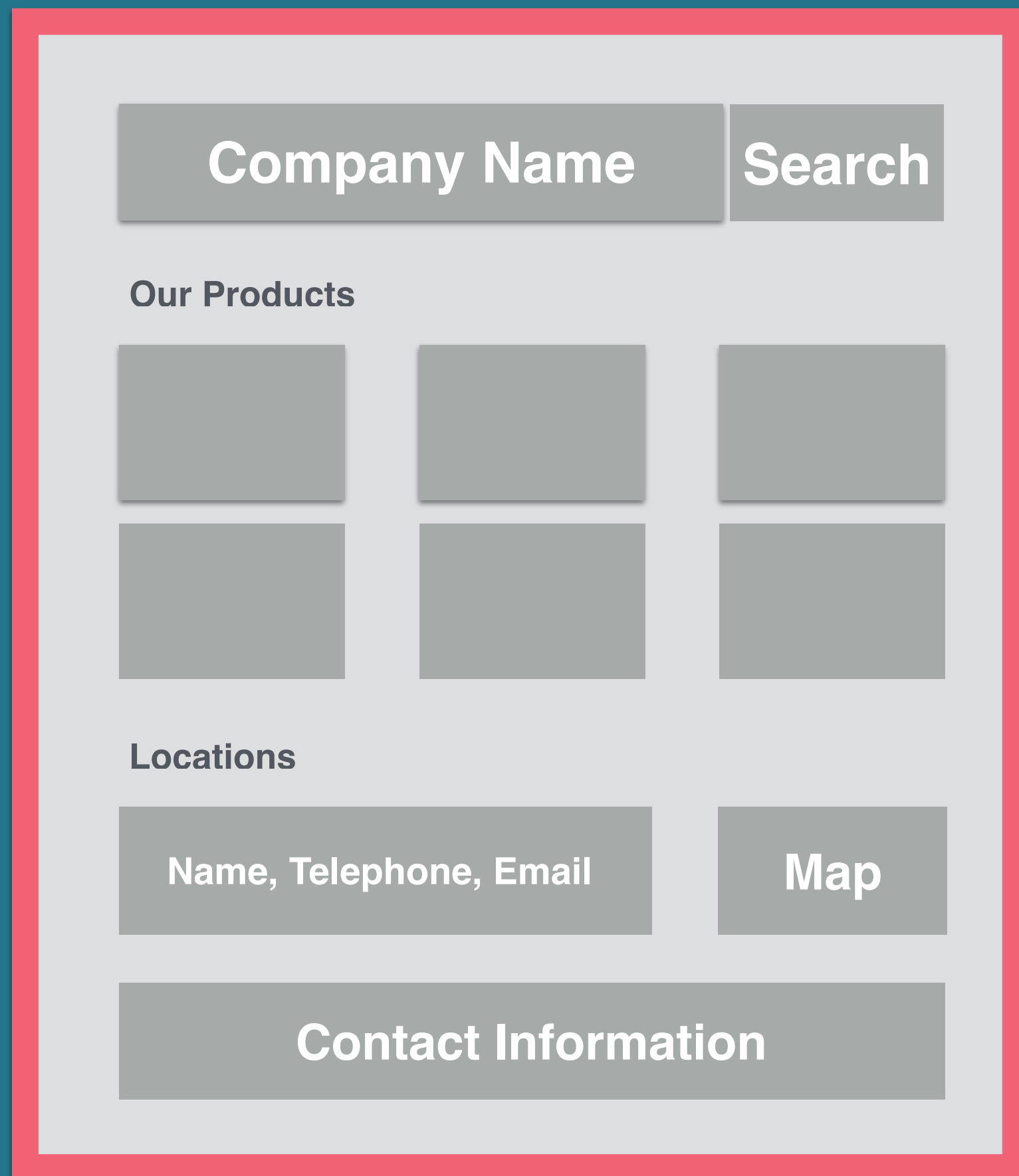
# Breakpoint

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



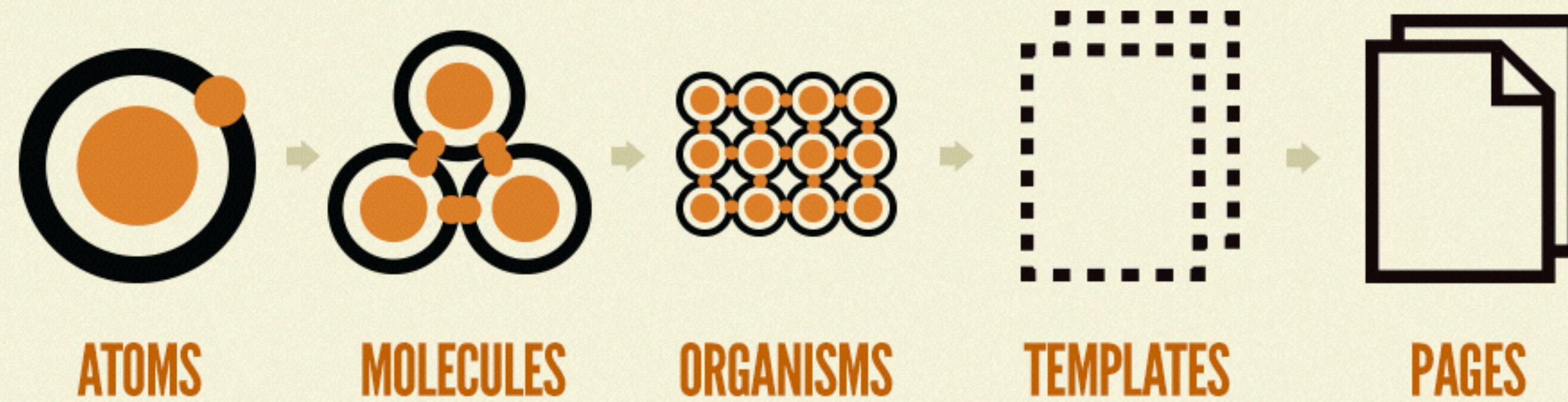
“We’re not designing pages, we’re designing  
systems of components.”

---

*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

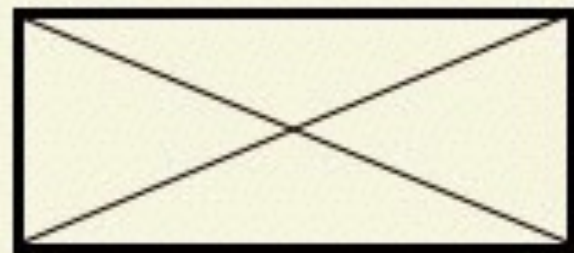
ENTER KEYWORD

SEARCH





# Organisms



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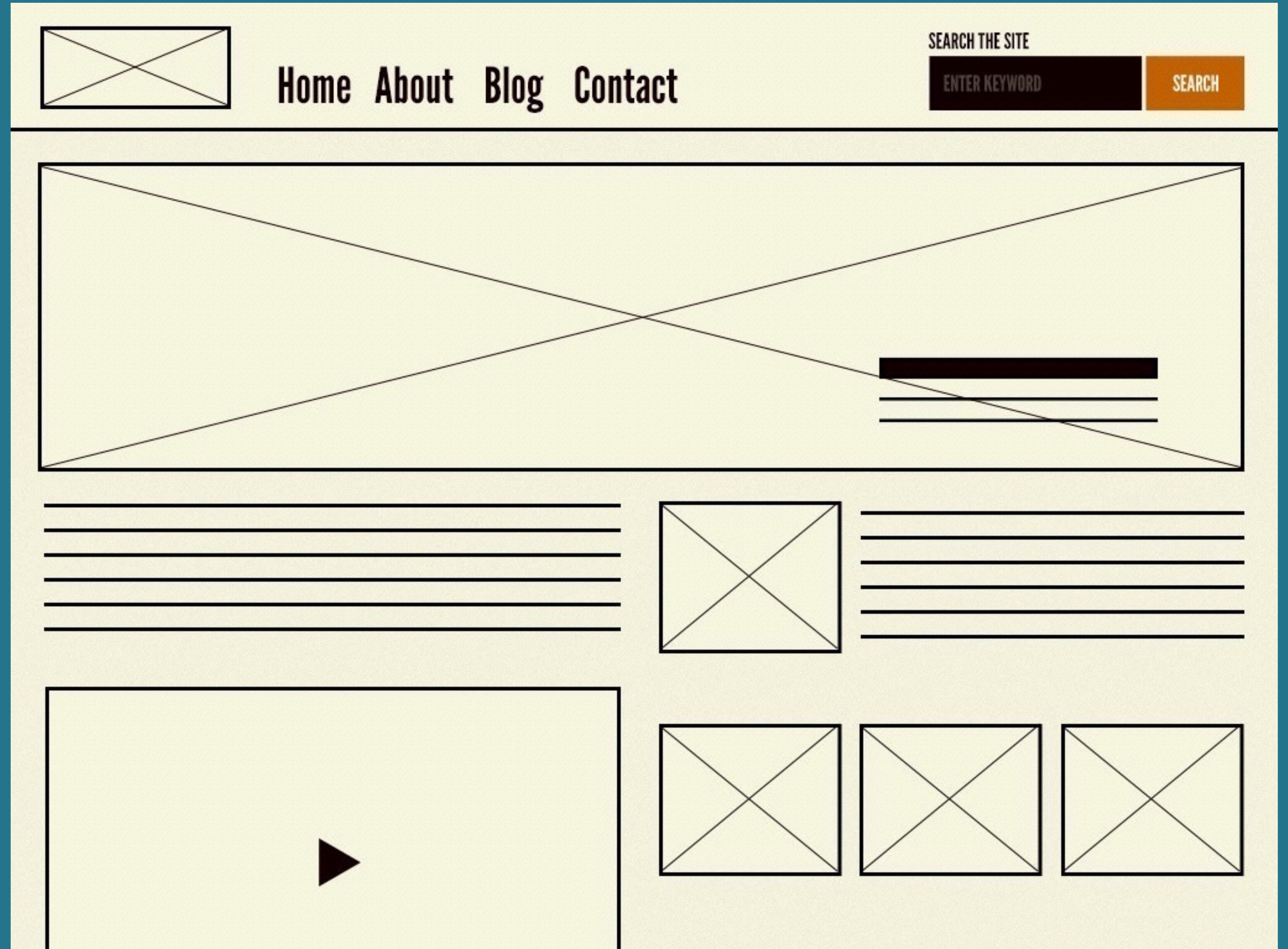
SEARCH THE SITE

ENTER KEYWORD

SEARCH

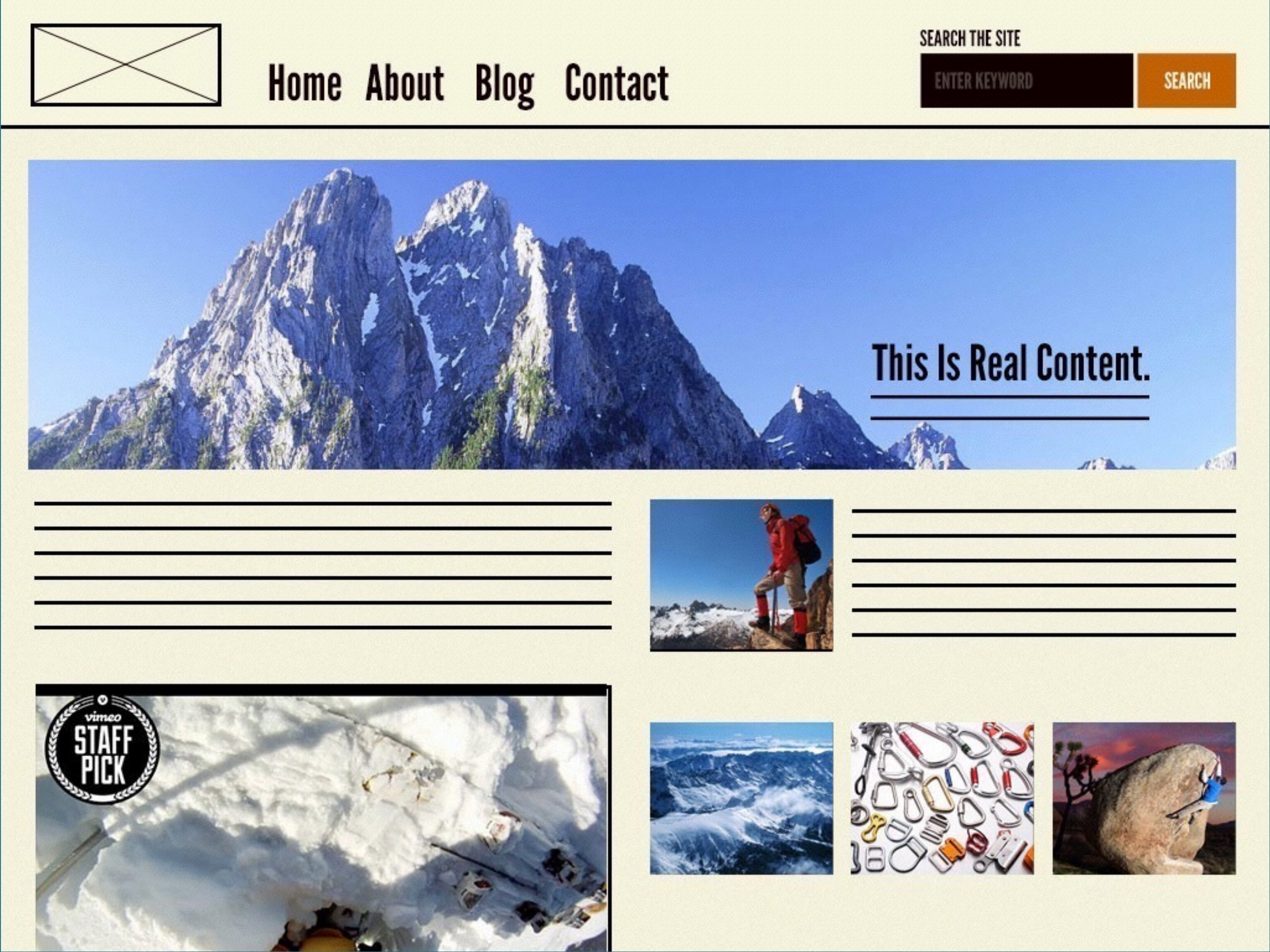


# Templates

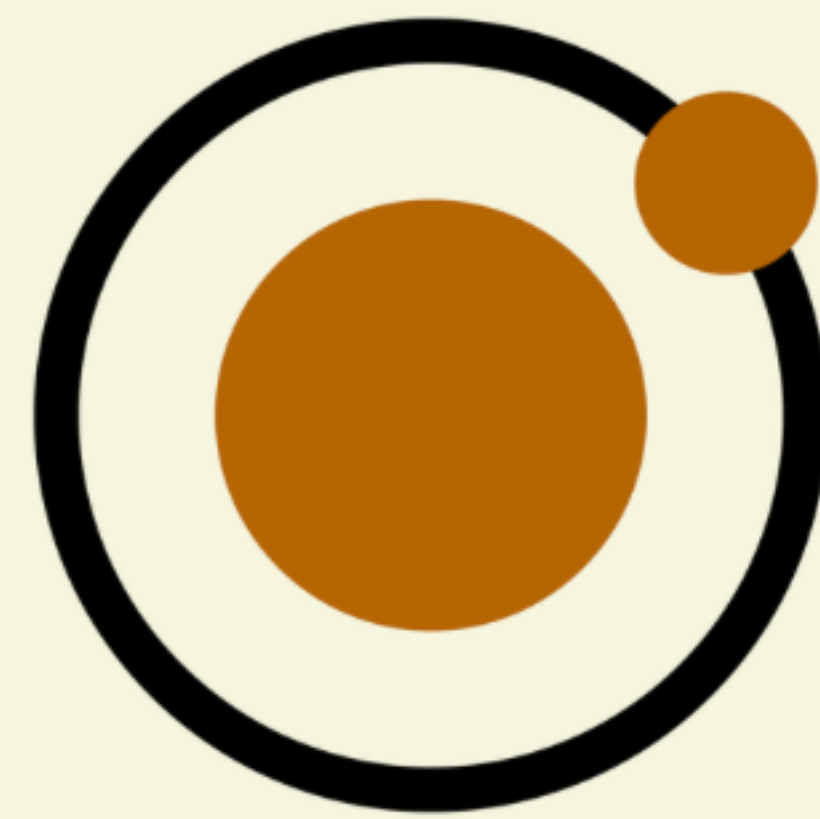




# Pages







# Atomic Design

Brad Frost



# Responsive Deliverables

Dave Rupert



# “Tiny Bootstraps, for Every Client”

Dave Rupert





# CSS Media Queries/ Layout Assignment

[www.rwdkent.com/class/assignments/layout](http://www.rwdkent.com/class/assignments/layout)





# CSS Media Queries/ Layout Hands-On

[www.rwdkent.com/class/assignments/layout](http://www.rwdkent.com/class/assignments/layout)



# For Next Time

Using SVG by Chris Coyier

Mo' Pixels Mo' Problems by Dave Rupert

HTML Wireframes by Brad Frost

Layout/Media Queries Assignment

Tweet of the Day

