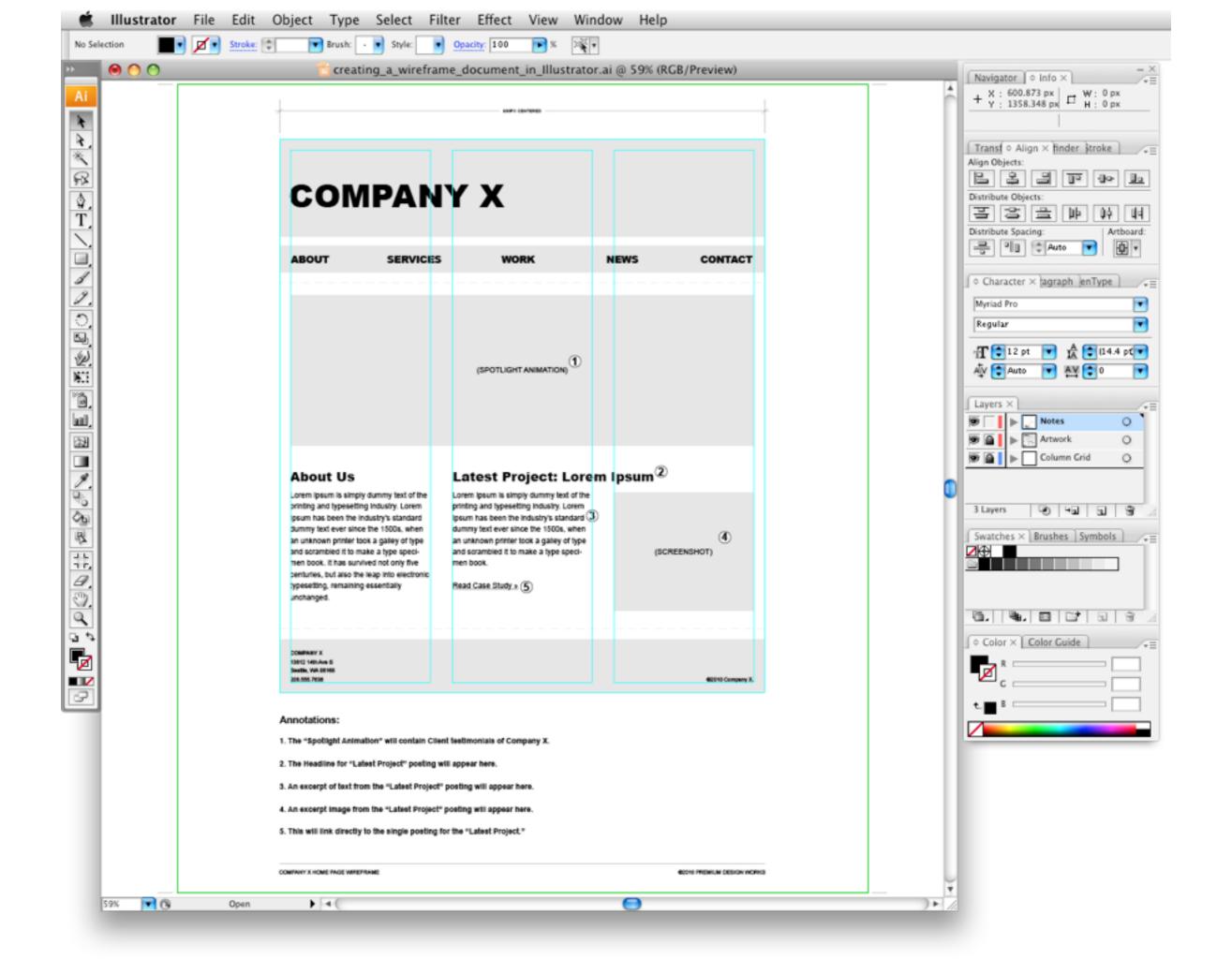
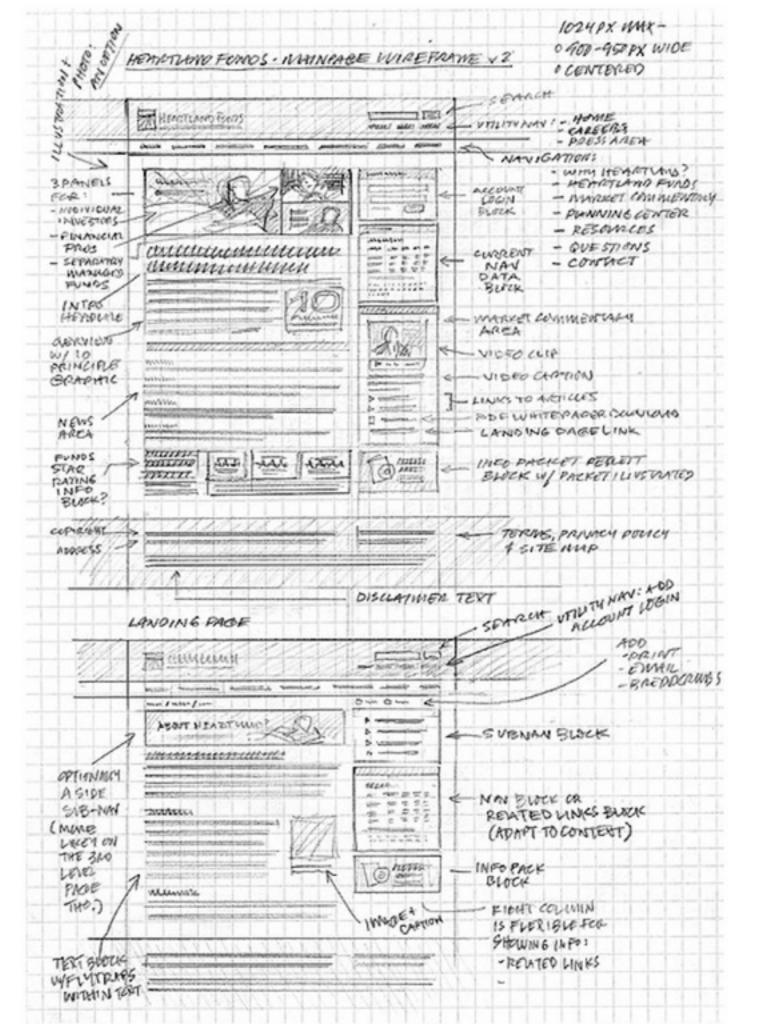
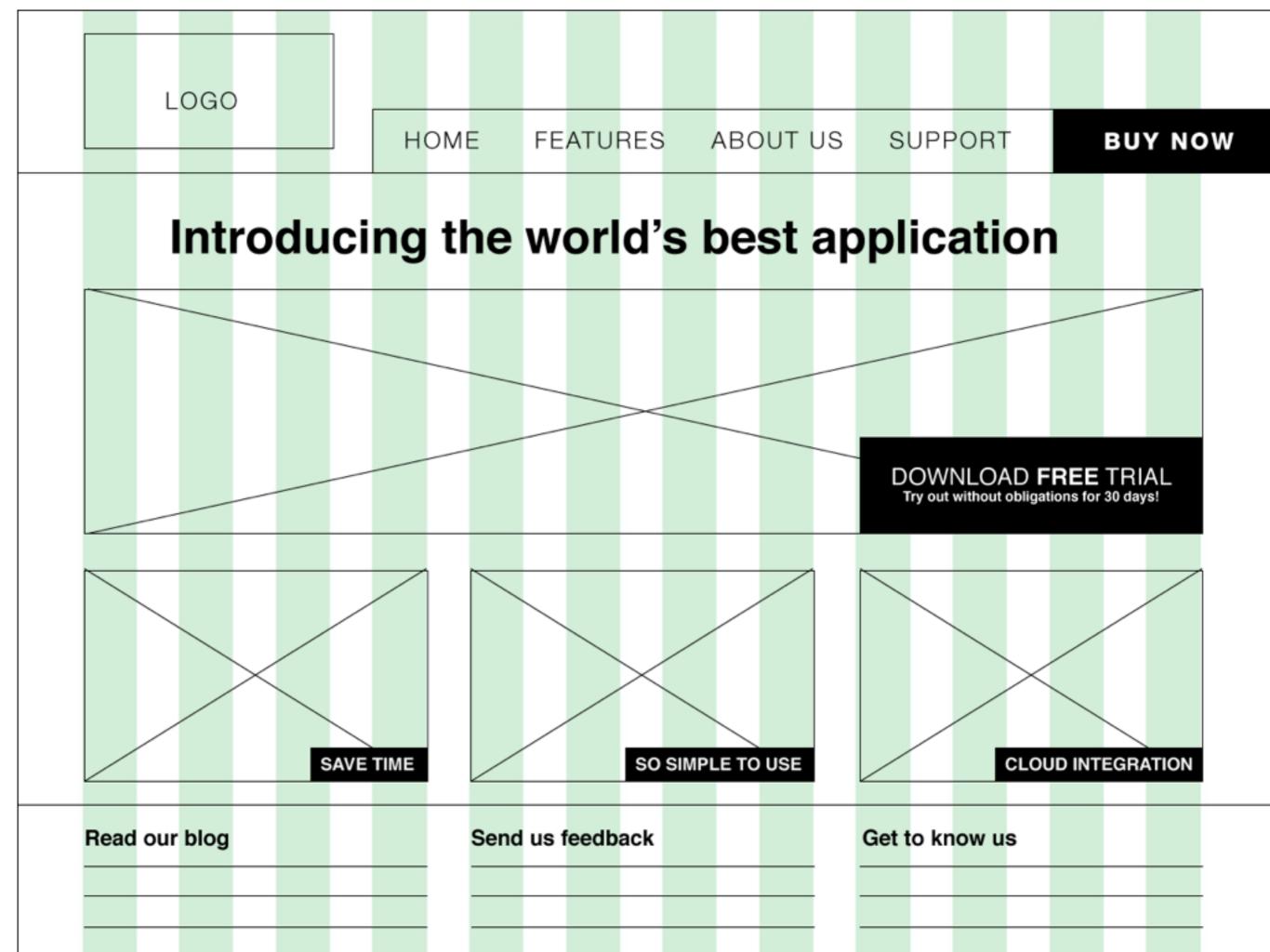
# Wireframes & Layout

#### Wireframes

An image or set of images which displays the functional elements of a website or page, used for planning a site's structure and functionality.



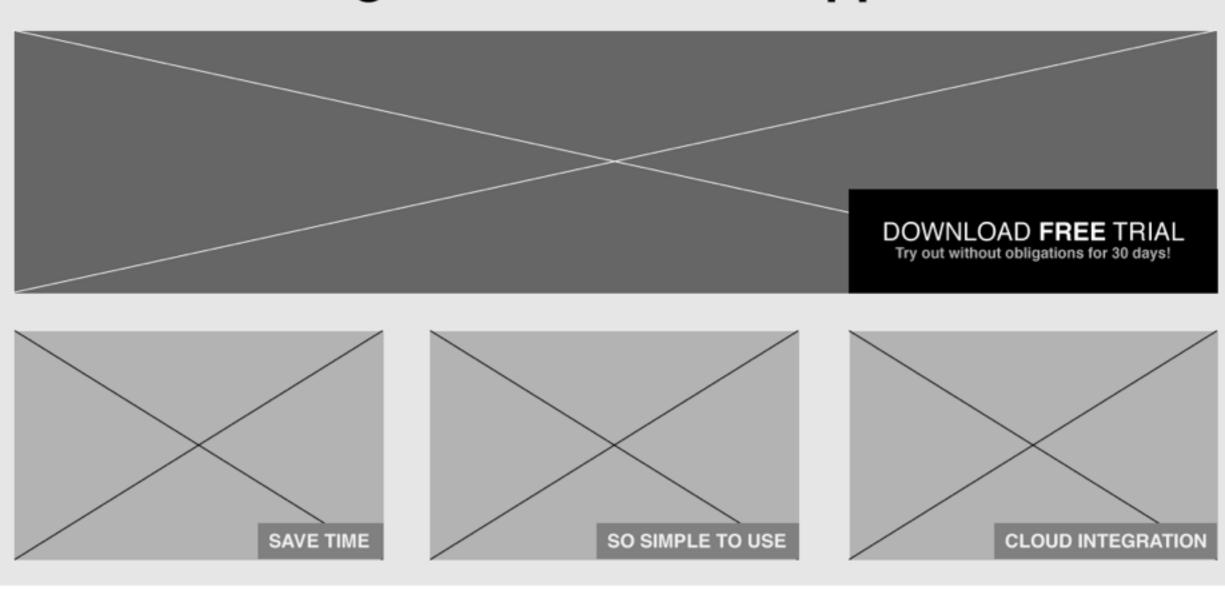




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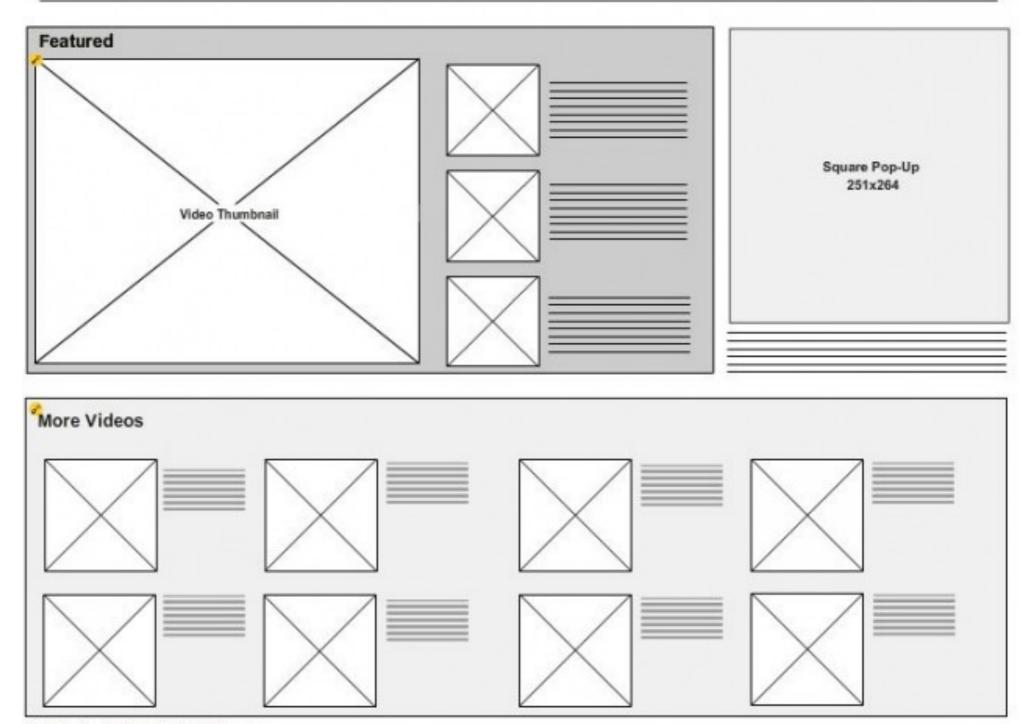
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#### Mockups

A realistic representation of what the website will look like. The final result may look exactly like the mockup, or may have slight variations.

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#### **Useful Tools**

- http://generator.lorem-ipsum.info/
- https://color.adobe.com/create/color-wheel/
- https://fonts.google.com/
- http://awesome-fontstacks.com/

- https://wireframe.cc/
- https://www.sketchapp.com

#### **CSS Units**

#### **Absolute: Pixels**

```
p {
  font-size: 12px;
  width: 400px;
}
```

#### Relative: Percentages

```
p {
  font-size: 12px;
  width: 50%;
}
```

#### Relative: em

```
p {
  font-size: 12px;
  width: 5em;
}
```

#### The Box Model

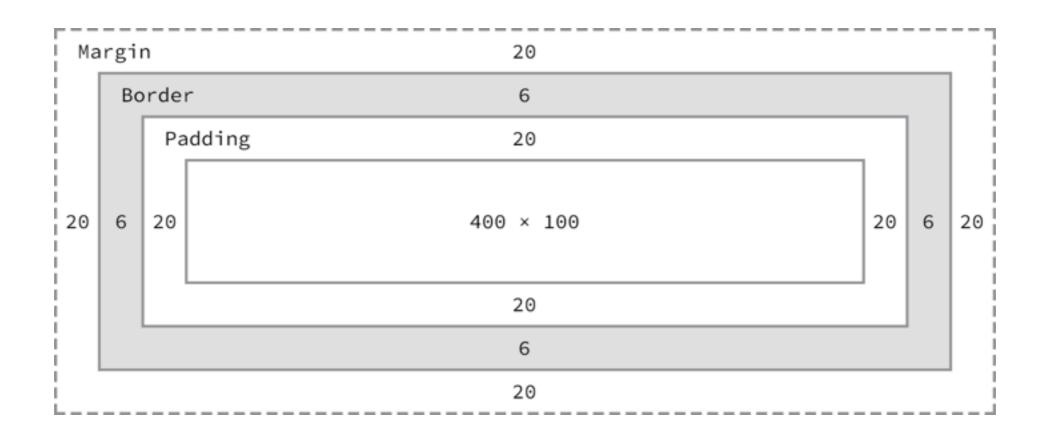
```
<HTML>
                                    Document (HTML)
                                         Head
 <HEAD>
                                        Title Text
  <TITLE>Title Text</TITLE>
 </HEAD>
                                         Body
 <BODY>
                                      H1 Heading
  <H1>H1 Heading</H1>
  <P>Paragraph 1</P>
                                      Paragraph 1
  <P>Paragraph 2</P>
</BODY>
                                      Paragraph 2
</HTML>
```

Every element on a page is a rectangular box

# Every box element may have width, height, padding, border, and margins.

```
Margin
                           20
        Border
                           6
          Padding
                           20
                                            20
         20
                         400 × 100
                                                20
                           20
width: 400px;
height: 100px;
padding: 20px;
border: 6px solid #949599;
margin: 20px;
```

#### The box model is additive.



Total element width

$$= 400 + 2*20 + 2*6 + 2*20$$

$$= 496px$$

#### width and height

```
p {
  width: 200px;
  height: 400px;
}
```

#### margin and padding

```
p {
  margin: 20px;
  height: 400px;
}
```

```
p {
  margin: 20px;
}
```

```
p {
  margin: 20px 50px;
}
```

```
p {
 margin: 20px 50px 10px 100px;
}
```

```
p {
   margin-top: 50px;
   margin-left: 10px;
}
```

### Page Flow

#### block-level vs inline-level

#### display property

```
p {
   display: block;
}
```

#### display property

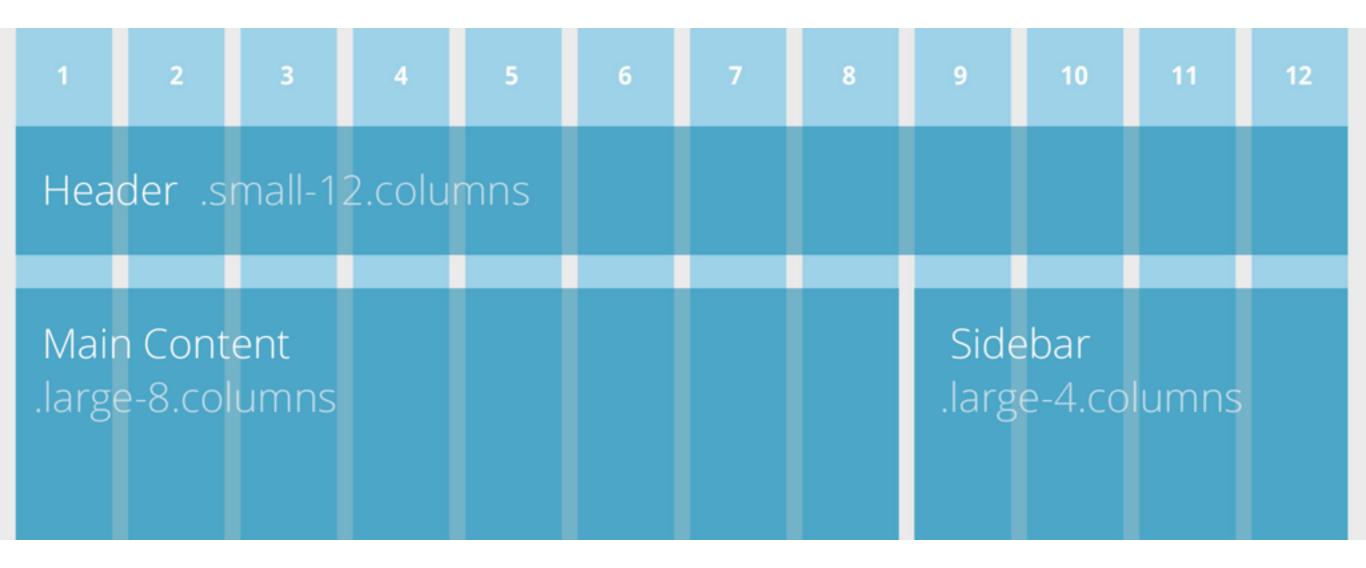
```
p {
   display: inline;
}
```

#### display property

```
p {
    display: none;
}
```

## Positioning Content

### The Grid System



### the float property

```
p {
  float: right;
}
```

### Absolute Positioning

```
p {
  position: absolute;
  top: 10px;
  right: 50px;
}
```

### Relative Positioning

```
p {
  position: relative;
  top: 10px;
  right: 50px;
}
```