

J220

Coding for Journalists

LECTURER

Yoli Martinez

PROMPTS

Sign into Poll Everywhere:

<https://pollev.com/yolim>

start Zoom recording + captions

Agenda

Announcements

NICAR Brown Bag

Importing fonts

CSS layouts: Float and Position

Advanced CSS Properties

BREAK

Design inspiration

Wireframing

Class Activity/GAME?

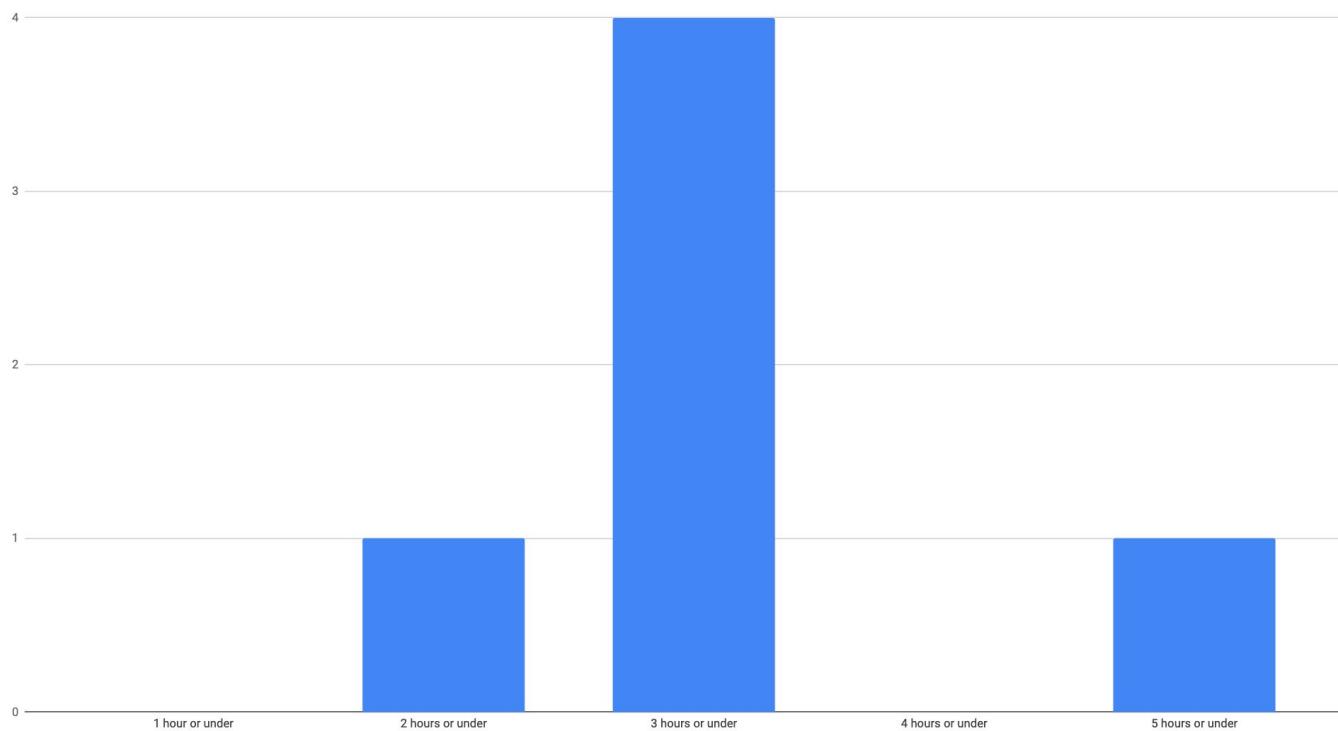
Homework

Announcements

Start thinking about your final project

How much time spent on J220

Week of 03-04: Number of students grouped by hours spent outside of lecture and office hours



NICAR Brown Bag

Organizing

index.html

styles/

main.css

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport"
          content="width=device-width,initial-scale=1">
    <meta name="description" content="Course website for JOURN
220">
    <title>JOURN 220</title>

    <!-- Put your fonts and other CSS here -->
    <link rel="stylesheet" href=".//styles/main.css">
  </head>
  ...

```

Always needs to be first
line in html file

Organizing

index.html

styles/

main.css

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport"
          content="width=device-width,initial-scale=1">
    <meta name="description" content="Course website for JOURN
220">
    <title>JOURN 220</title>

    <!-- Put your fonts and other CSS here -->
    <link rel="stylesheet" href=".//styles/main.css">
  </head>
  ...

```

always include natural language of page

Organizing

index.html

styles/

main.css

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport"
      content="width=device-width,initial-scale=1">
    <meta name="description" content="Course website for JOURN
220">
    <title>JOURN 220</title>

    <!-- Put your fonts and other CSS here -->
    <link rel="stylesheet" href=".//styles/main.css">
  </head>
  ...
  ...
```

<meta charset="utf-8">
should be the 1st line in **<head>**
(even HTML comments should
come after)

Organizing

index.html

styles/

main.css

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport"
          content="width=device-width,initial-scale=1">
    <meta name="description" content="Course website for JOURN
220">
    <title>JOURN 220</title>

    <!-- Put your fonts and other CSS here -->
    <link rel="stylesheet" href=".//styles/main.css">
  </head>
  ...

```

Add your CSS file (and fonts)
after the meta tags
information.

Organizing

<> index.html

📁 styles/

main.css

This isn't the only place you can place your CSS files, but it's common to have **main.css** inside a **styles/** folder.

```
/* */
```

Importing fonts

Google Fonts

How do you add special fonts to your website?

Google Fonts is the easiest way: <https://fonts.google.com>

Adobe Fonts is the next easiest way but might cost money:
<https://fonts.adobe.com>

Google Fonts

Review the variations that come with the font. Before clicking, you'll see the number of variations it offers

The screenshot shows the Google Fonts interface. On the left, there's a sidebar with navigation links: Fonts, Noto, Icons, Knowledge, FAQ, and a language selector set to All languages. Below these are filters for Technology (Variable, Color), and a decorative stroke option. The main area is titled "Preview" and shows a sentence "this sentence is to test how this". Above the preview, there's a search bar and a "Sort by: Most popular" dropdown. A "Filters" button is also present. The first font listed is "Playfair Display Variable (2 axes)" by Claus Eggers Sørensen, with its name circled in red. The second font listed is "Merriweather" with "8 styles" and "Skin Type", also with its name circled in red. Below these are "Lora Variable (2 axes) | Cyreal" and "PT Serif 4 styles | ParaType", both shown in a smaller font size.

Google Fonts

The next page gives you a chance to see what all the variations look like

The screenshot shows the Google Fonts Specimen page. At the top, there's a search bar labeled "Search fonts" and a "Sort by" dropdown set to "48px". Below the search bar are four tabs: "Specimen" (which is selected), "Type tester", "Glyphs", and "About & license". A sentence "this sentence is to test how this" is displayed in various font styles. A horizontal slider on the right allows adjusting the font size from 16px to 48px. The visible font styles are:

- Light 300: **this sentence is to test how this**
- Light 300 Italic: *this sentence is to test how this*
- Regular 400: **this sentence is to test how this**
- Regular 400 Italic: *this sentence is to test how this*
- Bold 700: **this sentence is to test how this**

Google Fonts

In the top right corner, click on the ‘Get Font’ button. You should now see this. From here, click on `Get embed code`

The screenshot shows the Google Fonts website interface. At the top left is the Google Fonts logo. In the center, it says "1 font family selected". Below that, "Merriweather Static" is listed. A large sample text "Everyone has the right to freedom" is displayed in the Merriweather font. On the right side, there are several buttons: "Share", "Remove all", a trash bin icon, a download icon, and two prominent blue buttons labeled "Get embed code" and "Download all (1)". Below these buttons is a link "See how to use".

Google Fonts

From this screen, select the variants you need and COPY the embed code

The screenshot shows the 'Embed code' section of the Google Fonts interface for the Merriweather font. On the left, a preview area displays the text "Whereas recognition of" in different font styles. Below the preview, a list of styles is shown with checkboxes: "Light 300" (checked), "Light 300 Italic" (checked), and several others like "Regular 400", "Bold 700", etc., which are unselected. A "Change styles" button is visible. On the right, the "Web" tab is selected, showing the embed code:

```
<link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Merriweather:ital,wght@0,300;0,400;0,700;0,900;1,300;1,400;1,700;1,900&display=swap" rel="stylesheet">
```

A "Copy code" button is located below this section. Below the code, there is a "Merriweather: CSS classes" section containing the following CSS:

```
.merriweather-light {
  font-family: "Merriweather", serif;
  font-weight: 300;
  font-style: normal;
}

.merriweather-regular {
  font-family: "Merriweather", serif;
  font-weight: 400;
  font-style: normal;
}

.merriweather-bold {
  font-family: "Merriweather", serif;
  font-weight: 700;
}
```

Google Fonts

Paste the text inside <head>

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,initial-scale=1">
    <title>Assignment 7</title>
    <meta name="description" content="A page for students to practice
creating html and css from scratch.">
    <link rel="stylesheet" href=".//styles/main.css">
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Merriweather:ita
l,wght@0,300;0,400;0,700;0,900;1,300;1,400;1,700;1,900&display=swap"
rel="stylesheet">
  </head>
```

Google Font

CSS rules to specify families

```
font-family: 'Montserrat', sans-ser  
if;
```

I recommend putting font-family within body, like so:

```
body {  
  font-family: 'Montserrat' sans-serif;  
}
```

Importing Fonts

Propublica's weepeople

<https://github.com/propublica/weepeople?tab=readme-ov-file>

OpenNews writeup:

<https://source.opennews.org/articles/our-font-made-people/>

What questions do you have?

CSS layouts: Float and Position

CSS Float

In class, we'll use this mostly to change the position on an image.

But any HTML element can be floated.

Easier to see it in action, open float.html in your browser and let's review the code.

CSS Float

Here's a simplified version of the page. Each figure has been given a class.

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,initial-scale=1">
    <title>Advanced CSS</title>
    <meta name="description" content="A page that shows how to use CSS floats.">
    <link rel="stylesheet" href=".//styles/main.css">
  </head>
  <body>
    <main>
      <h1>Examples of using the float property</h1>
      <section>
        <h2>Using float left</h2>
        <figure class="floatLeft">
          
          <figcaption>Sometimes petting a cat.</figcaption>
        </figure>
        <p>Cras fermentum blandit porttitor.</p>
      </section>
    </main>
  </body>
</html>
```

CSS Float

Assume CSS file is
always linked

```
/* .styles/main.css */
```

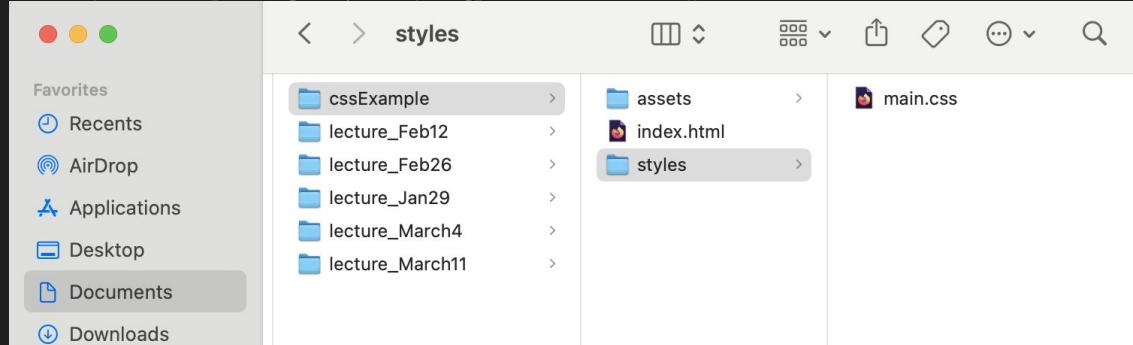
```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,initial-scale=1">
    <title>Advanced CSS</title>
    <meta name="description" content="A page that shows how to use CSS floats.">
    <link rel="stylesheet" href="../styles/main.css">
  </head>
  <body>
    <main>
      <h1>Examples of using the float property</h1>
      <section>
        <h2>Using float left</h2>
        <figure class="floatLeft">
          
          <figcaption>Sometimes petting a cat.</figcaption>
        </figure>
        <p>Cras fermentum blandit porttitor.</p>
      </section>
    </main>
  </body>
</html>
```

CSS Float

Assume CSS file is
always linked

```
/* .styles/main.css */
```

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width,initial-scale=1">
    <title>Advanced CSS</title>
    <meta name="description" content="A page that shows how to use CSS floats.">
    <link rel="stylesheet" href="../styles/main.css">
  </head>
  <body>
    <main>
```



```
</body>
</html>
```

CSS Float

Showing just a section of the html page (because of limited space in slides)

```
<main>
  <h1>Examples of using the float property</h1>
  <section>
    <h2>Using float left</h2>
    <figure class="floatLeft">
      
      <figcaption>Sometimes petting a cat.</figcaption>
    </figure>
    <p>Cras fermentum blandit porttitor.</p>
  </section>
  <section>
    <h2>Using float right</h2>
    <p>Cras fermentum blandit porttitor.</p>
    <figure class="floatRight">
      
      <figcaption>Sometimes petting a cat.</figcaption>
    </figure>
    <p>Cras fermentum blandit porttitor.</p>
  </section>
  <section>
    <h2>Using float none</h2>
    <p>Cras fermentum blandit porttitor.</p>
    <figure class="floatNone">
      
      <figcaption>Sometimes petting a cat.</figcaption>
    </figure>
    <p>Cras fermentum blandit porttitor.</p>
  </section>
</main>
```

CSS Float

Let's do some basic styling to see the page.

```
html {  
  font-size: 16px;  
}  
  
main {  
  width: 80%;  
  margin: 0 auto;  
}  
  
img {  
  width: 100%;  
}
```

```
<main>  
  <h1>Examples of using the float property</h1>  
  <section>  
    <h2>Using float left</h2>  
    <figure class="floatLeft">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
  <section>  
    <h2>Using float right</h2>  
    <p>Cras fermentum blandit porttitor.</p>  
    <figure class="floatRight">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
  <section>  
    <h2>Using float none</h2>  
    <p>Cras fermentum blandit porttitor.</p>  
    <figure class="floatNone">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
</main>
```

CSS Float

Let's do some basic styling to see the page.

```
html {
  font-size: 16px;
}

main {
  width: 80%;
  margin: 0 auto;
}

img {
  width: 100%;
}
```

Examples of using the float property

Using float left



Sometimes petting a cat can help with stress

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdett tempus ex et pretium. Donec consectetur metus eu augue consectetur rutrum. Nulla imperdett imperdett sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

```
<p>Cras fermentum blandit porttitor.</p>
</section>
</main>
```

```
<main>
  <h1>Examples of using the float property</h1>
```

```
t="a cat walking in snow">
a cat.</figcaption>
```

```
tor.</p>
```

```
tor.</p>
```

```
t="a cat walking in snow">
a cat.</figcaption>
```

```
tor.</p>
```

```
tor.</p>
```

```
tor.</p>
```

```
t="a cat walking in snow">
a cat.</figcaption>
```

The page is centered and all our images have a width of 100%

CSS Float

The old styling remains, let's try CSS float.

```
.floatLeft {  
    float: left;  
}
```

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <h2>Using float left</h2>  
        <figure class="floatLeft">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float right</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatRight">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float none</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatNone">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
</main>
```

CSS Float

The old styling remains, let's try CSS float.

```
.floatLeft {  
    float: left;  
}
```

Examples of using the float property

Using float left



Sometimes petting a cat can help with stress

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur rutrum. Nulla imperdiet imperdiet sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

```
<main>  
    <h1>Examples of using the float property</h1>  
    <p>Cras fermentum blandit porttitor.</p>  
    </section>  
</main>
```

```
= "a cat w  
cat.</fig  
or.</p>
```

```
or.</p>
```

```
= "a cat w  
cat.</figcaption  
or.</p>
```

```
or.</p>
```

```
or.</p>
```

```
= "a cat walking in snow">  
cat.</figcaption>
```

Appears like nothing has happened

CSS Float

The old styling remains, let's try CSS float.

```
.floatLeft {  
    float: left;  
    width: 30%;  
}
```

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <h2>Using float left</h2>  
        <figure class="floatLeft">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float right</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatRight">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float none</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatNone">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
</main>
```

CSS Float

The old styling
remains, let's
float.

```
.floatLeft {  
    float: left;  
    width: 30%;  
}
```

Examples of using the float property



rutrum. Nulla imperdiet imperdiet sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <img alt="A black and white photo of a cat walking in the snow." data-bbox="221 321 368 556"/>  
        <caption>Sometimes petting a cat can help with stress</caption>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
</main>
```

Despite having a display of block, float allows content to wrap around it.

Notice figure still retains its inherit margins.

```
at w  
</figcaption>  
p>  
p>  
at w  
</figcaption>  
p>  
p>  
at walking in snow">  
</figcaption>
```

CSS Float

The old styling remains, let's try CSS float.

```
.floatLeft {  
    float: left;  
    width: 30%;  
    margin: 1rem 2rem 1rem 0;  
}
```

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <h2>Using float left</h2>  
        <figure class="floatLeft">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float right</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatRight">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float none</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatNone">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
</main>
```

CSS Float

The old styling remains, let's try CSS float.

```
.floatLeft {  
    float: left;  
    width: 30%;  
    margin: 1rem 2rem 1rem 0;  
}
```

Examples of using the float property

Using float left



Sometimes petting a cat can help with stress

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur rutrum. Nulla imperdiet imperdier sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus

```
</Figure>  
<p>Cras fermentum blandit porttitor.</p>  
</section>  
</main>
```

We override the spacing with our own margins

CSS Float

Float right works the same way

```
.floatLeft {  
    float: left;  
    width: 30%;  
    margin: 1rem 2rem 1rem 0;  
}  
  
.floatRight {  
    float: right;  
    width: 30%;  
}
```

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <h2>Using float left</h2>  
        <figure class="floatLeft">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float right</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatRight">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float none</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatNone">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
</main>
```

CSS Float

Float right works the same way

```
.floatLeft {  
    float: left;  
    width: 30%;  
    margin: 1rem 2rem 1rem 0;  
}  
  
.floatRight {  
    float: right;  
    width: 30%;  
}
```

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <h2>Using float left</h2>  
        <figure class="floatLeft">  
            
```

Using float right

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur rutrum. Nulla imperdiet imperdiet sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur rutrum. Nulla imperdiet imperdiet sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

```
<p>Cras fermentum blandit porttitor...</p>  
    </section>  
</main>
```



Sometimes petting a cat can help with stress

CSS Float

Float none stops an element from floating

```
.floatLeft {  
    float: left;  
    width: 30%;  
    margin: 1rem 2rem 1rem 0;  
}  
  
.floatRight {  
    float: right;  
    width: 30%;  
}  
  
.floatNone {  
    float: none;  
    width: 30%;  
}
```

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <h2>Using float left</h2>  
        <figure class="floatLeft">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float right</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatRight">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
    <section>  
        <h2>Using float none</h2>  
        <p>Cras fermentum blandit porttitor.</p>  
        <figure class="floatNone">  
              
            <figcaption>Sometimes petting a cat.</figcaption>  
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        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
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```

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    float: right;  
    width: 30%;  
}  
.floatNone {  
    float: none;  
    width: 30%;  
}
```

Using float none

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris, pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur. In imperdiet imperdiet sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed Maecenas tempor ante dui, et semper lorem aliquet ac.



Sometimes petting a cat can help with stress

```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <h2>Using float left</h2>  
        <figure class="floatLeft">  
             help with stress  
        </figure>  
        <p>Cras fermentum blandit porttitor.</p>  
    </section>  
</main>
```

So why use it?

CSS Float

Maybe you have a class that floats all images, but there is one you don't want floating. Can select and remove the float.

```
<main>
  <h1>Examples of using the float property</h1>
  <section>
    <h2>Using float left</h2>
    <figure class="floatLeft">
      
      <figcaption>Sometimes petting a cat.</figcaption>
    </figure>
    <p>Cras fermentum blandit porttitor.</p>
  </section>
  <section>
    <h2>Using float right</h2>
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    <figure class="floatRight">
      
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    </figure>
    <p>Cras fermentum blandit porttitor.</p>
  </section>
  <section>
    <h2>Using float none</h2>
    <p>Cras fermentum blandit porttitor.</p>
    <figure class="floatNone">
      
      <figcaption>Sometimes petting a cat.</figcaption>
    </figure>
    <p>Cras fermentum blandit porttitor.</p>
  </section>
</main>
```

CSS Float

Using this CSS Property removes the element from the flow of the page. So even though h2 are a block element and has margins, the float can seem to override them.

Examples of using the float property

Using float left



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Sometimes petting a cat can help with stress

CSS Float

Introduction to clear:

<https://developer.mozilla.org/en-US/docs/Web/CSS/clear>

```
section {  
  clear: both;  
}
```

```
<main>  
  <h1>Examples of using the float property</h1>  
  <section>  
    <h2>Using float left</h2>  
    <figure class="floatLeft">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
  <section>  
    <h2>Using float right</h2>  
    <p>Cras fermentum blandit porttitor.</p>  
    <figure class="floatRight">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
  <section>  
    <h2>Using float none</h2>  
    <p>Cras fermentum blandit porttitor.</p>  
    <figure class="floatNone">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
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  </section>  
</main>
```

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section {  
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Examples of using the float property

Using float left



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Using float none

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</main>

Yes clear

No clear

Examples of using the float property

Using float left



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Examples of using the float property

Using float left

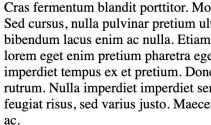


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Using float right



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CSS Float

Clear also accepts,
right and left, so if
you are okay with
certain overflow

```
section {  
  clear: left;  
}
```

```
<main>  
  <h1>Examples of using the float property</h1>  
  <section>  
    <h2>Using float left</h2>  
    <figure class="floatLeft">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
  <section>  
    <h2>Using float right</h2>  
    <p>Cras fermentum blandit porttitor.</p>  
    <figure class="floatRight">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
  <section>  
    <h2>Using float none</h2>  
    <p>Cras fermentum blandit porttitor.</p>  
    <figure class="floatNone">  
        
      <figcaption>Sometimes petting a cat.</figcaption>  
    </figure>  
    <p>Cras fermentum blandit porttitor.</p>  
  </section>  
</main>
```

CSS Float

Clear also accepts, right and left, so if you are okay with certain overflow

```
section {  
  clear: left;  
}
```

```
<main>  
  <h1>Examples of using the float</h1>
```

Examples of using the float property

Using float left



Sometimes petting a cat can help with stress

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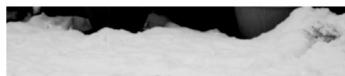
Using float right

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```
</SECTION>  
</main>
```



Sometimes petting a cat can help with stress

CSS Position

Float doesn't solve all
our element
positioning problems.

What if you want the
photo to stay on the
page? Or you want it
to scroll away?

CSS Position

Values accepted:

- static (default)
- relative
- absolute
- fixed
- sticky

[https://developer.mozilla.org/en-US/
docs/Web/CSS/position](https://developer.mozilla.org/en-US/docs/Web/CSS/position)

CSS Position

Best to just see it in action. This property accepts these CSS values:

- top
- bottom
- left
- right

They work similar to margin

Advanced CSS: UX/UI

Advanced CSS: UX/UI

Start thinking about the user experience (UX) and user interface (UI). Good UX/UI can be easy to not notice, but bad UX/UI will create twitter threads.

There's a way to use CSS to give a *delightful* and *finished* look to your site, especially when users are using a mouse and accessing the site via keyboard.

Advanced CSS: Transition

[Transforms](#)[Animation](#)[Pseudo](#)

Advance CSS: UX, Animation and Design

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ipsum, blandit luctus
velit. Vestibulum ac
jula. Pellentesque

Cras vulputate augue ut
tra. Fusce porttitor neque nulla, non consectetur neque finibus
nagnis dis parturient montes, nascetur ridiculus mus. Proin eu
lisi. Maecenas egestas nisi a ante auctor, et euismod mauris
t amet placerat sit amet, aliquam vitae magna.

[Go back to the top](#)

Transitions

Here is the css for our working nav.

.navLinks and .navLinks li will remain the same.
We'll remove to create some space on the slides.

```
.navLinks {  
    list-style-type: none;  
    margin: 0;  
    padding: 0;  
}  
  
.navLinks li {  
    display: inline-block;  
    font-size: 2rem;  
    margin: 1rem 1rem 0 0;  
}  
  
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

For transitions:

- Name of the CSS property the transition is being applied to

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition-property: background-color, color, border-radius;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

For transitions:

- Name of the CSS property the transition is being applied to
- The amount of time it should take

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition-property: background-color, color, border-radius;  
    transition-duration: 2s;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

For transitions:

- The transition effect

<https://developer.mozilla.org/en-US/docs/Web/CSS/transition-timing-function>

If none is selection,
ease is default

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition-property: background-color, color, border-radius;  
    transition-duration: 2s;  
    transition-timing-function: linear;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

For transitions:

- The amount of time the user will wait before the transition starts (I rarely use this)

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition-property: background-color, color, border-radius;  
    transition-duration: 2s;  
    transition-timing-function: linear;  
    transition-delay: 1s;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

Just like with padding, margin, borders and border-radius, you can type less

Order: property name, duration, timing, delay

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition: background-color 2s linear, color 2s linear,  
border-radius 2s linear;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

If the same duration and timing-function is being used, you can shorten it even more

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition: all 2s linear;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

Not all CSS properties can have a transition applied.

For full list:

https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_animated_properties

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition: all 2s linear;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

Transitions

Be thoughtful about when/how you apply transitions. Movement on the page can be very disorienting.

<https://developer.mozilla.org/en-US/docs/Web/CSS/@media/prefers-reduced-motion>

```
.navLinks a {  
    display: inline-block;  
    text-decoration: none;  
    color: #084F5E;  
    border: 1px solid #084F5E;  
    padding: 0.2rem 1rem;  
    width: 200px;  
    text-align: center;  
    transition: all 2s linear;  
}  
  
.navLinks a:hover {  
    color: white;  
    background-color: #084F5E;  
    border-radius: 0.5rem;  
}
```

scroll-behavior

Noticed the nice scroll when clicking on a button? It's added to the html tag

```
html {  
    font-size: 16px;  
    scroll-behavior: smooth;  
}
```

<https://developer.mozilla.org/en-US/docs/Web/CSS/scroll-behavior>

What questions do you have?

Advanced CSS: Design

Pseudo-classes

We've used some of these before but haven't properly explained them. Let's look at how they work in context of the a tag.

Pseudo-classes

:hover, :focus, :active

Think about these pseudo-classes as a way to manipulate the styling depending on the ‘special state’ of the element.

They can be used on **any** HTML element on the page, not just <a> tags.

```
a:visited {  
    color: purple;  
}  
a:hover {  
    color: seagreen;  
}  
a:focus {  
    color: orange;  
}  
a:active {  
    color: red;  
}
```

Advanced Pseudo-classes

Sometimes, adding id's and classes to all html elements on a full website might be too much work. What if you have a pattern of styling you'd like to follow?

Pseudo-classes

1. :first-of-type
2. :last-of-type
3. :first-child
4. :last-child

You can find more here, though most are used for forms:

<https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-classes>

:first-of-type

Selects the first of a group of sibling elements. But what are siblings?

<section> is the parent element. The <p> and <h2> tags are nested inside, which makes them the children

```
<!DOCTYPE html>
<html lang="en-US">
  <head>
    <!-- meta data -->
  </head>
  <body>
    <section>
      <p>Here is a simple paragraph.</p>
      <p>Followed by a second paragraph, also with no links.</p>
    </section>
    <section>
      <h2>This is an h2 heading</h2>
      <p>Another paragraph, also with no links.</p>
    </section>
  </body>
</html>
```

:first-of-type

The first `<p>` and first `<h2>` would be marked as the first-of-type element if CSS looked like this:

```
section :first-of-type {  
    color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
    <head>  
        <!-- meta data -->  
    </head>  
    <body>  
        <section>  
            <p>Here is a simple paragraph.</p>  
            <p>Followed by a second paragraph, also with no  
links.</p>  
        </section>  
        <section>  
            <h2>This is an h2 heading</h2>  
            <p>Another paragraph, also with no links.</p>  
        </section>  
    </body>  
</html>
```

:first-of-type

- "Here is a simple..."

- "This is an h2 heading"

- "Another paragraph.."

Would all be blue.

```
section :first-of-type {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

:first-of-type

But what if I only want to style the first-of-type if it's a `<p>`?

```
section p:first-of-type {  
    color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
    <head>  
        <!-- meta data -->  
    </head>  
    <body>  
        <section>  
            <p>Here is a simple paragraph.</p>  
            <p>Followed by a second paragraph, also with no  
links.</p>  
        </section>  
        <section>  
            <h2>This is an h2 heading</h2>  
            <p>Another paragraph, also with no links.</p>  
        </section>  
    </body>  
</html>
```

:first-of-type

- "Here is a simple..."

- "Another paragraph..."

Would be blue.

```
section p:first-of-type {  
    color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
    <head>  
        <!-- meta data -->  
    </head>  
    <body>  
        <section>  
            <p>Here is a simple paragraph.</p>  
            <p>Followed by a second paragraph, also with no  
links.</p>  
        </section>  
        <section>  
            <h2>This is an h2 heading</h2>  
            <p>Another paragraph, also with no links.</p>  
        </section>  
    </body>  
</html>
```

:last-of-type

Works just like first-of-type, but in reverse.

```
section p:last-of-type {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

:last-of-type

- "followed by a second."

- "Another paragraph..."

Would be blue.

```
section p:last-of-type {  
    color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
    <head>  
        <!-- meta data -->  
    </head>  
    <body>  
        <section>  
            <p>Here is a simple paragraph.</p>  
            <p>Followed by a second paragraph, also with no  
links.</p>  
        </section>  
        <section>  
            <h2>This is an h2 heading</h2>  
            <p>Another paragraph, also with no links.</p>  
        </section>  
    </body>  
</html>
```

What questions do you have?

:first-child

Works in a similar way, but it only looks at the first sibling, ignores the rest.

```
section :first-child {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

:first-child

- "here is a simple.."

- "This is an h2..."

Would be blue.

```
section :first-child {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

:first-child

You can also be specific, and only style if the first-child is a `<p>`

```
section p:first-child {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

:first-child

- "here is a simple.."

Would be the ONLY blue text.

```
section p:first-child {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

:last-child

Works just like first-child, but in reverse.

```
section p:last-child {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

:last-child

- "Followed by a second..."

- "Another paragraph.."

Would both be blue

```
section p:last-child {  
  color: blue;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <section>  
      <p>Here is a simple paragraph.</p>  
      <p>Followed by a second paragraph, also with no  
links.</p>  
    </section>  
    <section>  
      <h2>This is an h2 heading</h2>  
      <p>Another paragraph, also with no links.</p>  
    </section>  
  </body>  
</html>
```

Advanced Pseudo-classes

What's a real example of using these pseudo-classes?
I use them mostly for applying the box model (padding, margins)

What if I have a long article and I want a bit more space between the end of the article and the footer?

Testing

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla id neque vitae ligula dictum fermentum vel eget odio. Duis vulputate vulputate egestas. Suspendisse et nulla mollis, placerat metus ut, varius tellus. Curabitur vestibulum orci quis sodales bibendum. Proin sollicitudin erat leo, sit amet interdum quam faucibus et. Curabitur non laoreet lectus. Nulla facilisi. Vivamus mattis laoreet nulla. Suspendisse ullamcorper urna non nisl vulputate posuere eget dapibus nisl. Vivamus tincidunt ligula vitae porta cursus. Donec tincidunt porta ante vel mattis. Maecenas eget vulputate magna, hendrerit ornare enim. Proin vitae augue diam. Sed ac arcu auctor, dapibus lacus ut, porttitor nulla.

Mauris non auctor orci, pulvinar pulvinar nulla. Suspendisse sit amet fermentum erat. Etiam consequat felis eget tortor laoreet fermentum. Pellentesque a tempus nulla. Praesent quis eros vitae nisl lobortis mollis ac quis risus. Nulla scelerisque ut nulla vel auctor. Integer pretium at leo ut pharetra.

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur rutrum. Nulla imperdiet imperdiet sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

Sed lacinia viverra fringilla. Vivamus enim ipsum, blandit luctus accumsan et, suscipit ut dui. Duis eu quam velit. Vestibulum ac nulla non leo tincidunt ultricies eget nec ligula. Pellentesque laoreet nisi nec lorem tempor pellentesque. Cras vulputate augue ut ipsum pharetra, eu ullamcorper nunc pharetra. Fusce porttitor neque nulla, non consectetur neque finibus porttitor. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Proin eu porta eros. Cras a aliquam justo. Nulla facilisi. Maecenas egestas nisi a ante auctor, et euismod mauris posuere. Maecenas lacus lorem, porttitor sit amet placerat sit amet, aliquam vitae magna.

Footer with links

Advanced Pseudo-classes

There are a few ways I can do this, pseudo-classes just give me another. Without having to add more classes or ids

```
main section:last-of-type {  
    margin-bottom: 5rem;  
}
```

Testing

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla id neque vitae ligula dictum fermentum vel eget odio. Duis vulputate vulputate egestas. Suspendisse et nulla mollis, placerat metus ut, varius tellus. Curabitur vestibulum orci quis sodales bibendum. Proin sollicitudin erat leo, sit amet interdum quam faucibus et. Curabitur non laoreet lectus. Nulla facilisi. Vivamus mattis laoreet nulla. Suspendisse ullamcorper urna non nisl vulputate posuere eget dapibus nisl. Vivamus tincidunt ligula vitae porta cursus. Donec tincidunt porta ante vel mattis. Maecenas eget vulputate magna, hendrerit ornare enim. Proin vitae augue diam. Sed ac arcu auctor, dapibus lacus ut, porttitor nulla.

Mauris non auctor orci, pulvinar pulvinar nulla. Suspendisse sit amet fermentum erat. Etiam consequat felis eget tortor laoreet fermentum. Pellentesque a tempus nulla. Praesent quis eros vitae nisl lobortis mollis ac quis risus. Nulla scelerisque ut nulla vel auctor. Integer pretium at leo ut pharetra.

Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo. In imperdiet tempus ex et pretium. Donec consectetur metus eu augue consectetur rutrum. Nulla imperdiet imperdiet sem, vel gravida nisl maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

Sed lacinia viverra fringilla. Vivamus enim ipsum, blandit luctus accumsan et, suscipit ut dui. Duis eu quam velit. Vestibulum ac nulla non leo tincidunt ultricies eget nec ligula. Pellentesque laoreet nisi nec lorem tempor pellentesque. Cras vulputate augue ut ipsum pharetra, eu ullamcorper nunc pharetra. Fusce porttitor neque nulla, non consectetur neque finibus porttitor. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Proin eu porta eros. Cras a aliquam justo. Nulla facilisi. Maecenas egestas nisi a ante auctor, et euismod mauris posuere. Maecenas lacus lorem, porttitor sit amet placerat sit amet, aliquam vitae magna.

Footer with links

What questions do you have?

What are pseudo-elements?

Pseudo-elements are applied the same way as pseudo-classes, but these focus on styling specific parts of the selected HTML element and has nothing to do with its location on the page.

Pseudo-elements

1. ::first-letter
2. ::first-line
3. ::before
4. ::after

You can find more here, though
these are not used too much:

<https://developer.mozilla.org/en-US/docs/Web/CSS/Pseudo-elements>

Pseudo-elements

1. ::first-letter
2. ::first-line
3. ::before
4. ::after

Notice that these start with two colons. While one would work, this is used to help distinguish between pseudo-classes and pseudo-elements

Pseudo-elements

::first-letter

Selects the first letter in
block-level element
(doesn't work with span, a,
strong, code and other
inline HTML elements)

Usually used for designing
drop caps.

::first-letter

Here is a simple paragraph
Morbi et pulvinar ligula,
ultrices, tellus magna pu
aliquet risus ultricies congue. D
vitae lorem leo.

```
.firstGraph::first-letter {  
  color: cadetblue;  
  font-size: 3rem;  
  font-weight: 700;  
  padding-right: 0.5rem;  
  float: left;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <article>  
      <p class="firstGraph">Here is a simple paragraph.  
Followed by another sentence.</p>  
    </article>  
  </body>  
</html>
```

::first-letter

Here is a simple paragraph
Morbi et pulvinar ligula,
ultrices, tellus magna pu
aliquet risus ultricies congue. D
vitiae lorem leo.

```
article p:first-of-type::first-letter {  
  color: cadetblue;  
  font-size: 3rem;  
  font-weight: 700;  
  padding-right: 0.5rem;  
  float: left;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <article>  
      <p>Here is a simple paragraph. Followed by another  
sentence.</p>  
    </article>  
  </body>  
</html>
```

Pseudo-elements

::first-line

Work similarly to first-letter, but does have some drawbacks. It is not selecting the first sentence, only the first visible line a in block element

::first-line

Work similarly to first-letter, but does have some drawbacks. It is not selecting the first sentence, only the first visible line a in block element

```
.firstGraph::first-line {  
    text-transform: uppercase;  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
    <head>  
        <!-- meta data -->  
    </head>  
    <body>  
        <article>  
            <p class="firstGraph">Here is a simple paragraph.  
Followed by another sentence.</p>  
        </article>  
    </body>  
</html>
```

HERE IS A SIMPLE PARAGRAPH. FOLLOWED BY ANOTHER SENTENCE. CRAS fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo.

HERE IS A SIMPLE PARAGRAPH. FOLLOWED BY another sentence. Cras fermentum blandit porttitor. Morbi et pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar pretium ultrices, tellus magna pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet risus ultricies congue. Duis non lorem eget enim pretium pharetra eget viverra neque. Nulla vitae lorem leo.

Pseudo-elements

::before

Creates a element,
outside of the DOM. It is
mostly used for design
touches and to help with
user experience.

First, let's break down how
it is applied.

::before

It requires the content property. It can be a string, a symbol or left empty.

```
.redCircle::before {  
  content: "";  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <article>  
      <p>A way to show <span  
class="redCircle">highlight</span> data</p>  
    </article>  
  </body>  
</html>
```

::before

For now, without adding anything, this is what the text looks like.

```
.redCircle::before {  
  content: "";  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <article>  
      <p>A way to show <span  
class="redCircle">highlight</span> data</p>  
    </article>  
  </body>  
</html>
```

A way to show highlight data

::before

For the purpose of this example, let's use a "test" and add color

```
.redCircle::before {  
  content: "";  
  color: "red";  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <article>  
      <p>A way to show <span  
class="redCircle">highlight</span> data</p>  
    </article>  
  </body>  
</html>
```

A way to show highlight data

::before

The element is added before the word highlight.

```
.redCircle::before {  
  content: "";  
  color: "red";  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <article>  
      <p>A way to show <span  
class="redCircle">highlight</span> data</p>  
    </article>  
  </body>  
</html>
```

A way to show testhighlight data

Pseudo-elements

::after

This pseudo-elements works the same way as ::before, it just changes position to after the HTML element selected.

::after

The element is added before the word highlight.

```
.redCircle::after {  
  content: "";  
  color: "red";  
}
```

```
<!DOCTYPE html>  
<html lang="en-US">  
  <head>  
    <!-- meta data -->  
  </head>  
  <body>  
    <article>  
      <p>A way to show <span  
class="redCircle">highlight</span> data</p>  
    </article>  
  </body>  
</html>
```

A way to show highlighttest data

Pseudo-elements

::before, ::after

WHY????

Pseudo-elements

Both of these elements
are automatically inline

The content within these
elements is not accessible
to screen readers.

But this is not necessary
bad!

Pseudo-elements

::before, ::after

They help add **visual cues** that are not necessary for screen readers, like a green checkmark next to correctly filled form input or quotes image around <blockquote>

To add emojis!

Bill To / Billing Address

Full Name	John Newman	✓
Street Address	2125 Chestnut st	✓
optional		
Zip Code	9412	Enter Zip for City & State The specified ZIP is invalid
Phone		
Email		

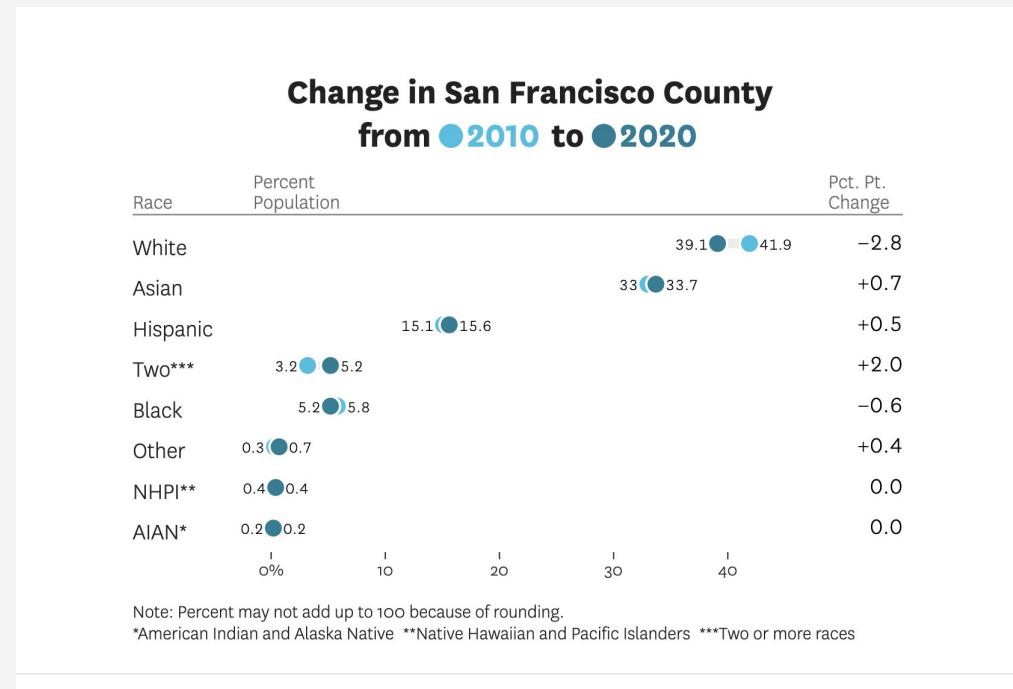
Pseudo-elements

::before, ::after

I've mostly used them for labeling for data viz.

Example:

<https://www.sfchronicle.com/projects/2021/census-california/>

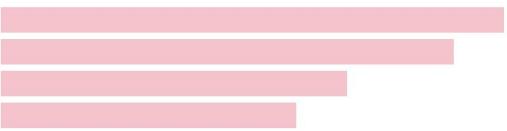


::before

The code could look something like this:

This is a data visualization

Aenean et tortor at ●risus viverra adipiscing. Odio ut enim blandit volutpat. In hendrerit gravida ●rutrum quisque non tellus.



```
.blueCircle {  
    color: blue;  
    font-weight: 700;  
}  
.blueCircle::before {  
    content: "";  
    display: inline-block;  
    height: 1rem;  
    width: 1rem;  
    background-color: blue;  
    margin-right: 2px;  
    border-radius: 50%;  
}
```

What questions do you have?

Break

Meet back in 15 minutes.

start Zoom recording + captions

Screenshare

Basic Design

Basic Design

We'll review a few design principles:

1. Hierarchy
2. Proximity
3. White space
4. Alignment

Basic Design

We'll review a few design principles:

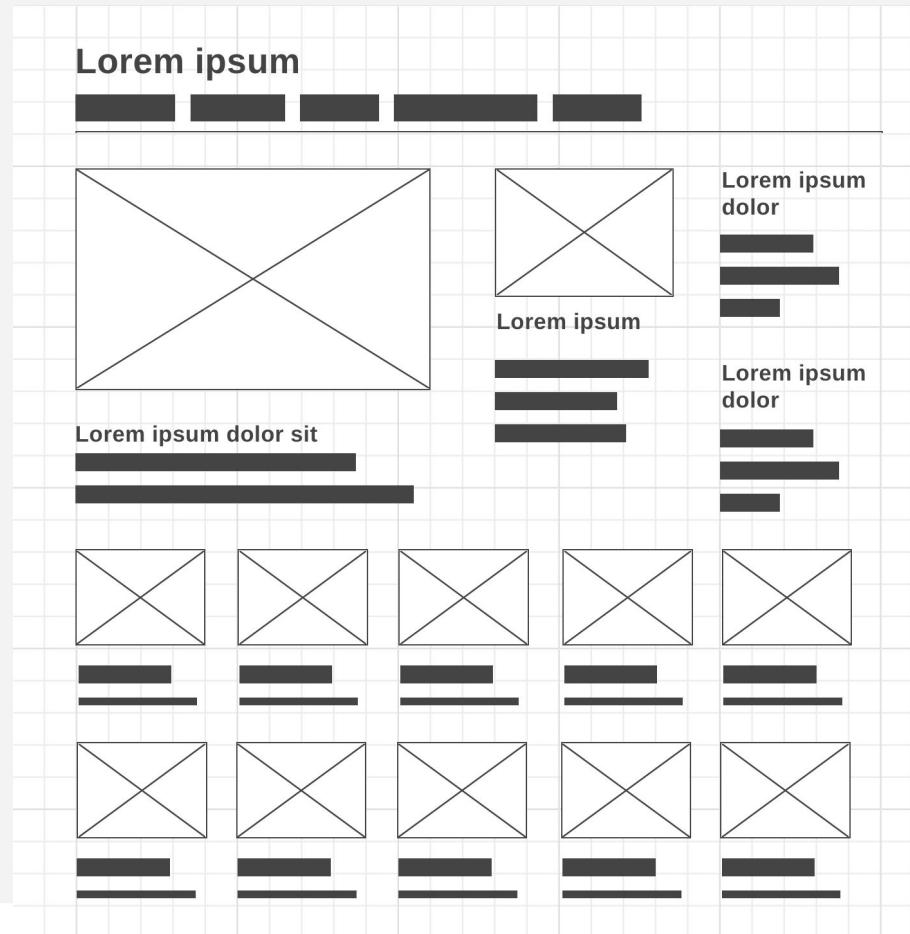
1. Hierarchy
2. Proximity
3. White space
4. Alignment

Used together, all of these principles help the reader scan and understand the important elements of the page.

Basic Design

Before we move forward, let's look at the item to the right.

This is a wireframe, a very simple mock up of a webpage.

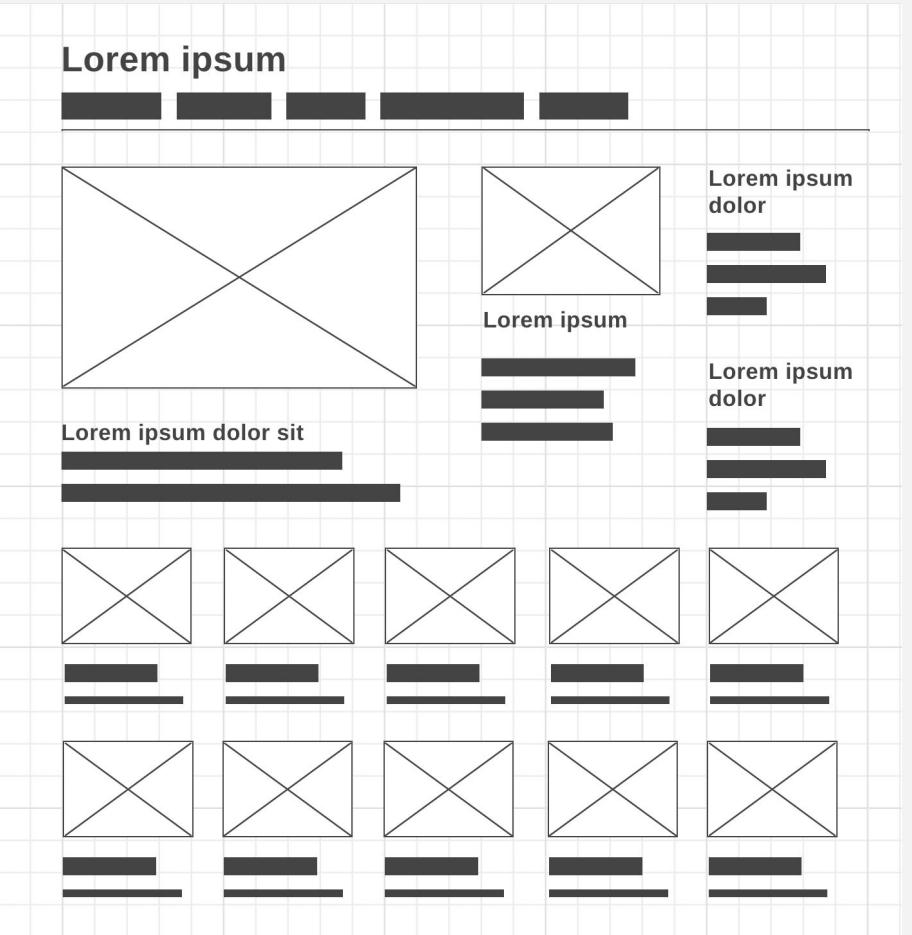


Basic Design

The black bars can represent paragraphs or headlines.

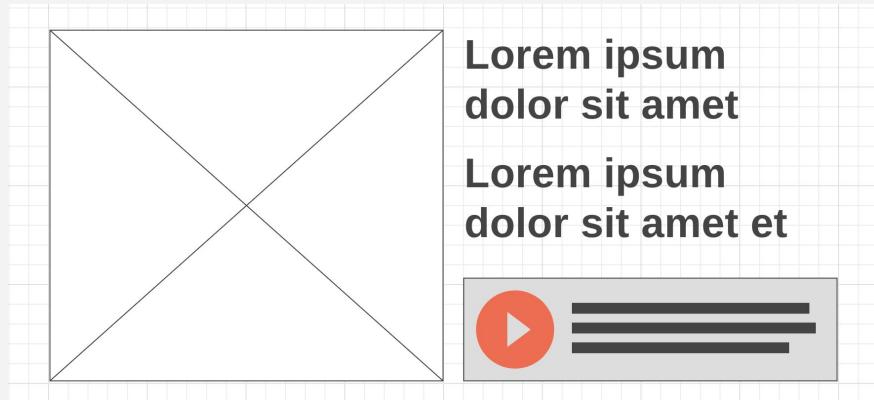
The boxes with an x across are stand-ins for photos.

We will work with these later in the class!



Basic Design: Hierarchy

Helps signify importance and order on the page



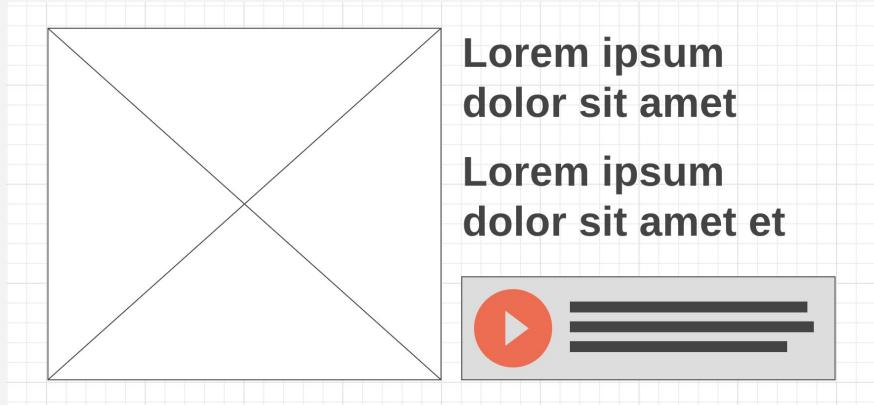
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**Lorem ipsum dolor sit amet
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Basic Design: Hierarchy

Quickly looking at these wireframes, it's hard to figure out which heading is the most important



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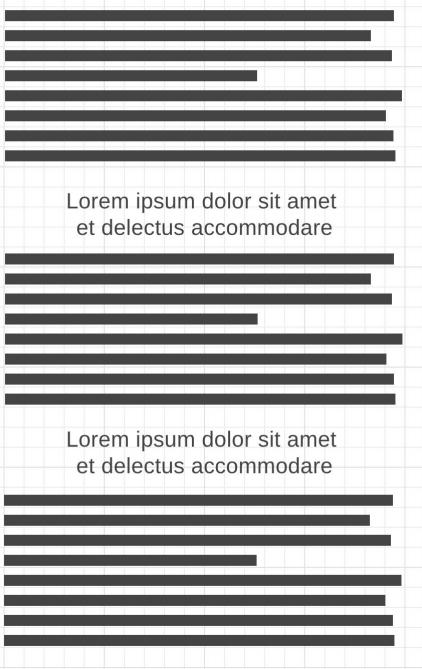
Basic Design: Hierarchy

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et delectus accommodare



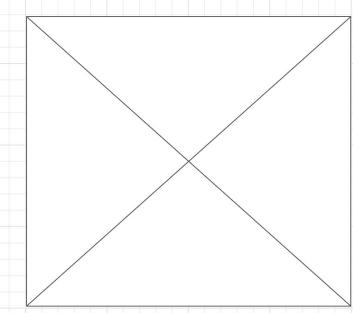
Bad

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Good

Basic Design: Hierarchy



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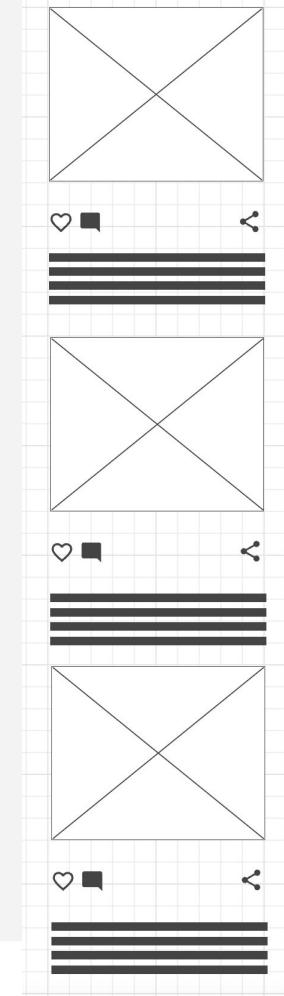
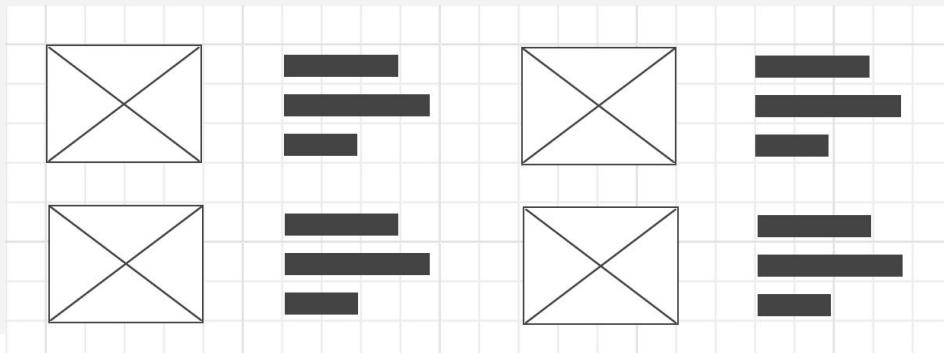


Bad

Good

Basic Design: Proximity

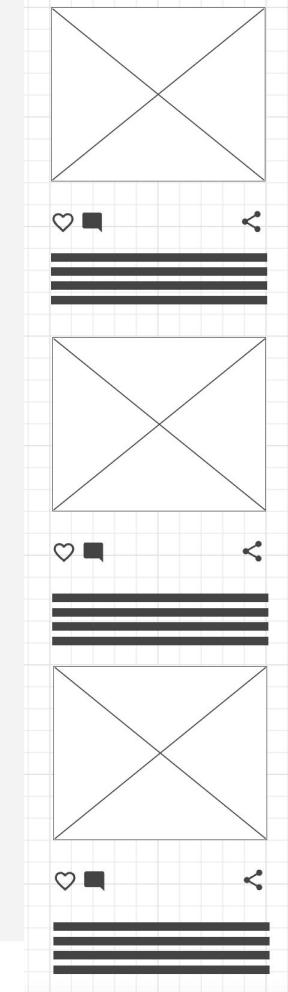
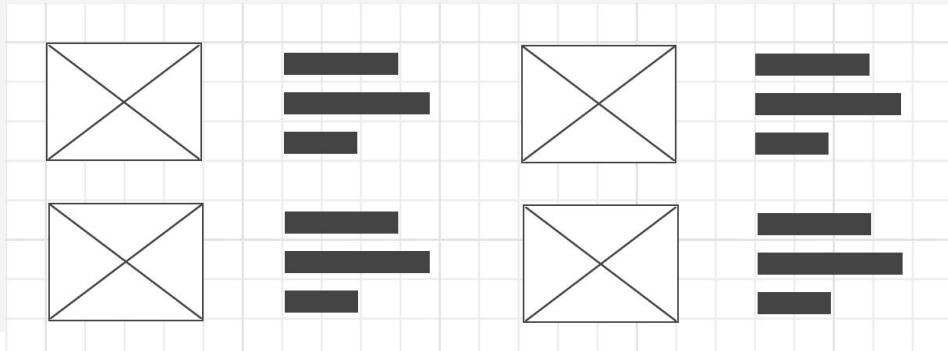
Helps with readability and grouping related elements together.



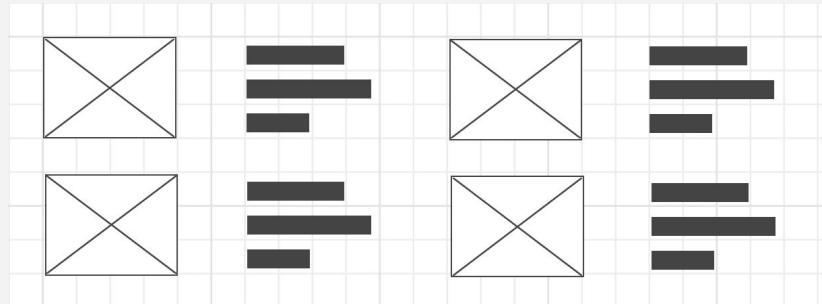
Basic Design: Proximity

Look at both of these wireframes.
Everything is spaced evenly, elements are
properly aligned.

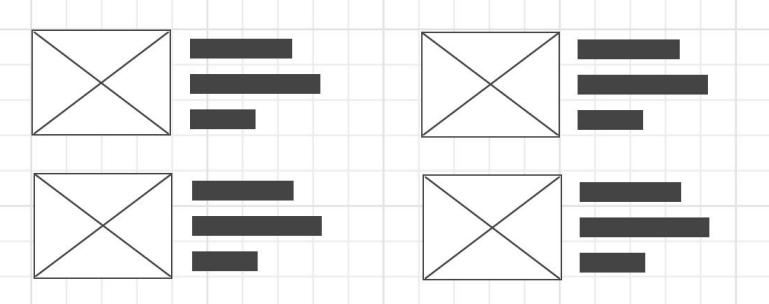
But it's hard to quickly figure out what
content is grouped together



Basic Design: Proximity

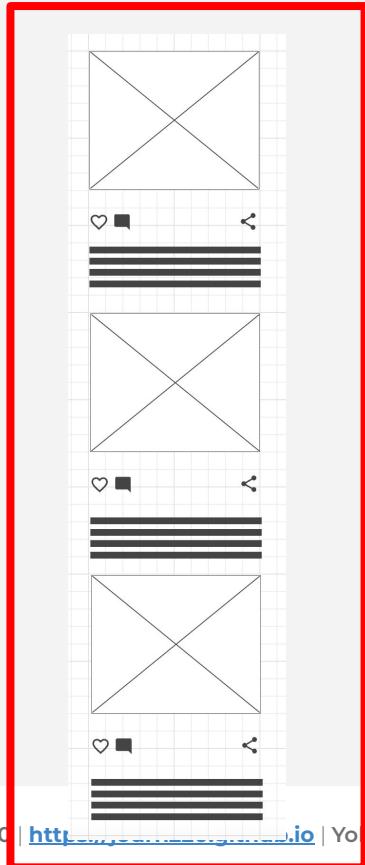


Bad

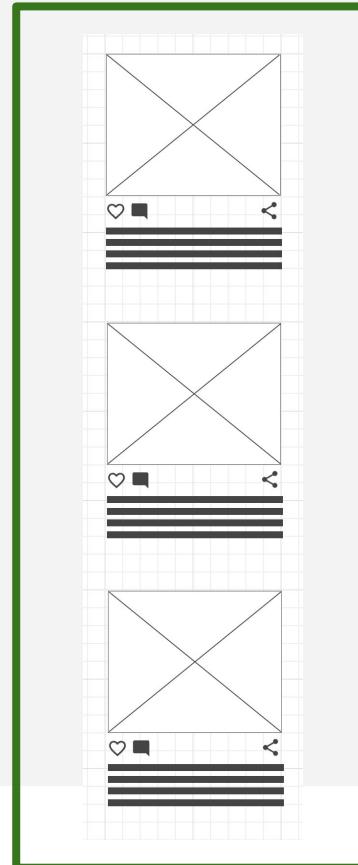


Good

Basic Design: Proximity



Bad

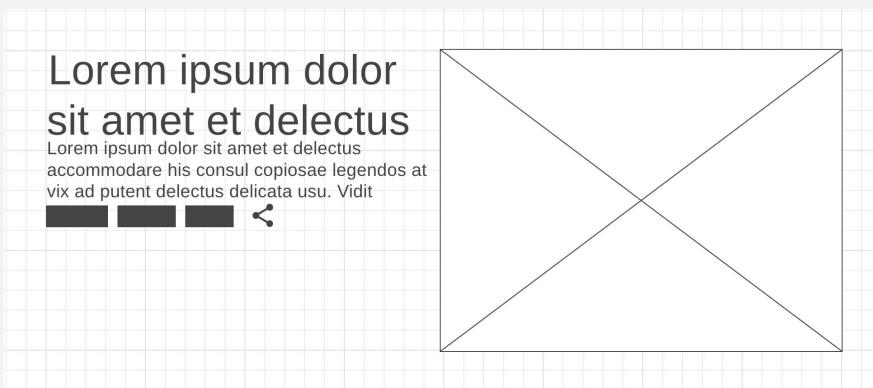


Good

Basic Design: White Space

Helps with readability and hierarchy.

White space makes it easier for the eye to scan the page.



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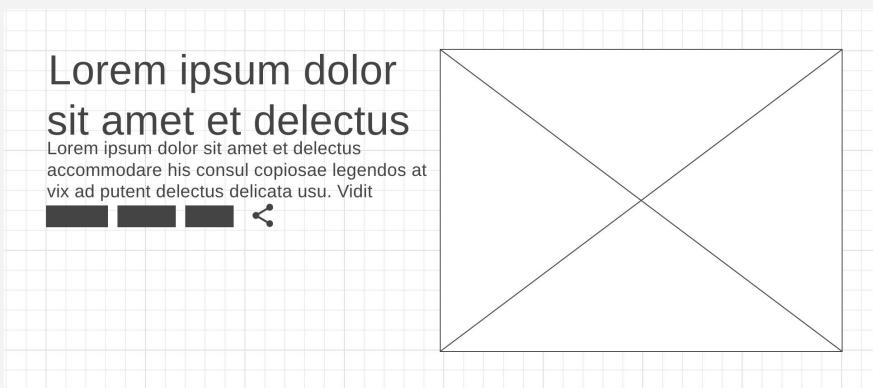
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Basic Design: White Space

While it might not be obvious at first, having everything tightly grouped gives more work to the reader.



**Lorem ipsum dolor
sit amet et delectus**

Latin placeholder text describing the tight grouping of elements.

Add Space

Latin placeholder text for the 'Add Space' section.

Basic Design: White Space

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Add Space

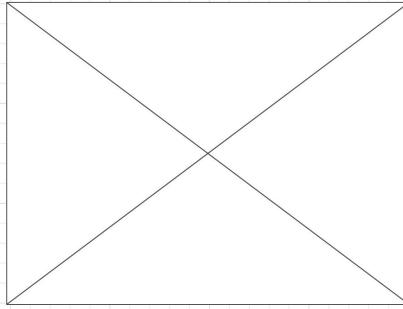
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Good

Basic Design: White Space

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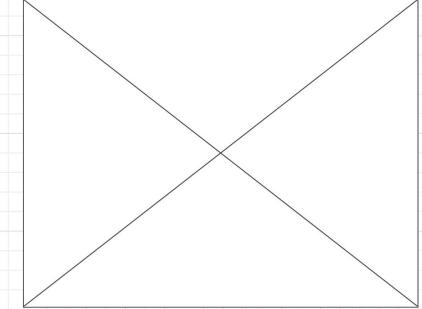
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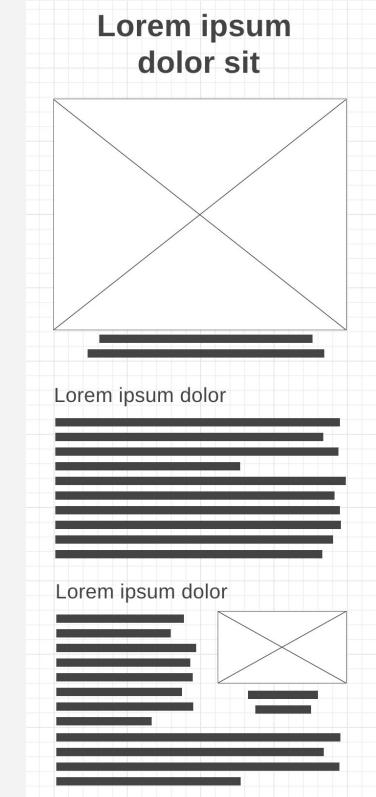
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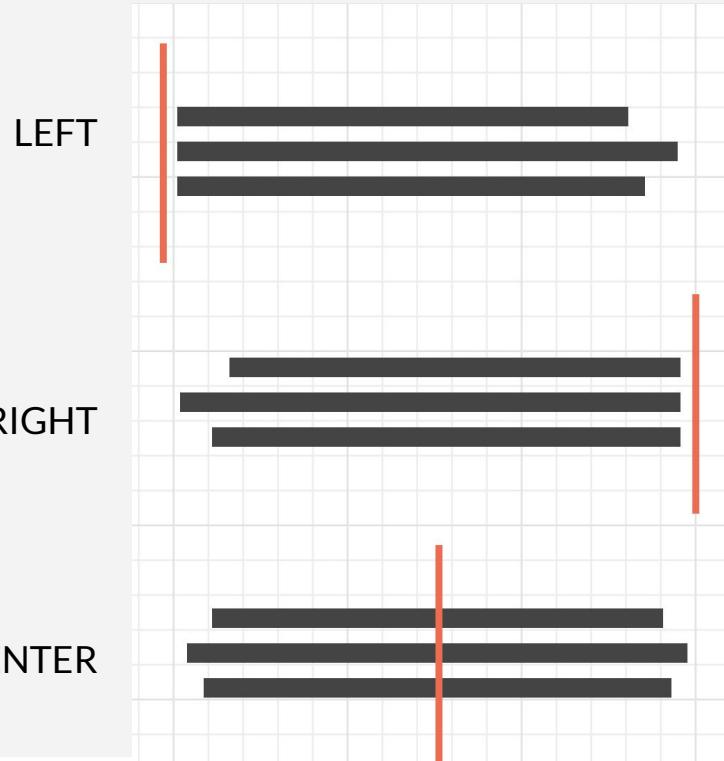
Good

Basic Design: Alignment

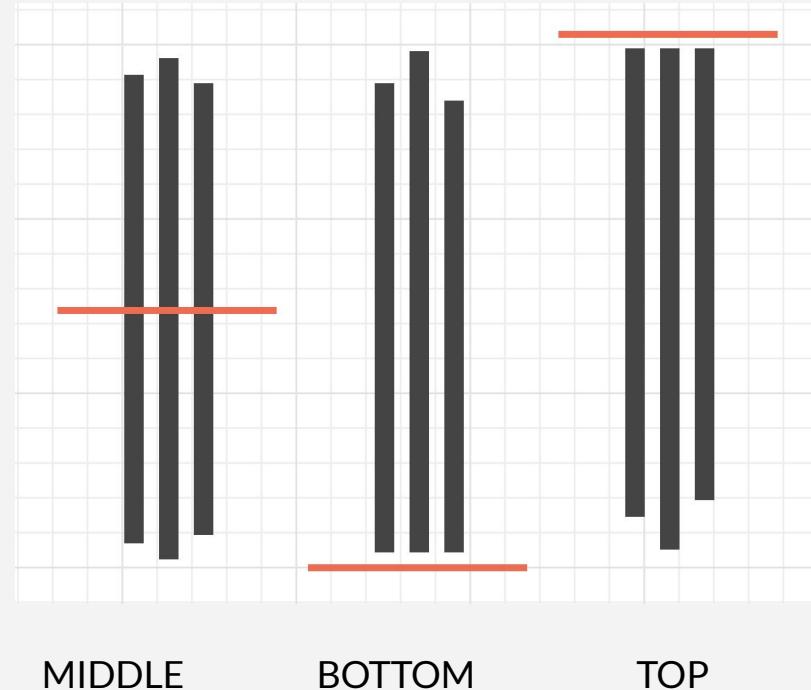
Probably the most used design principle.



Basic Design: Alignment



RIGHT



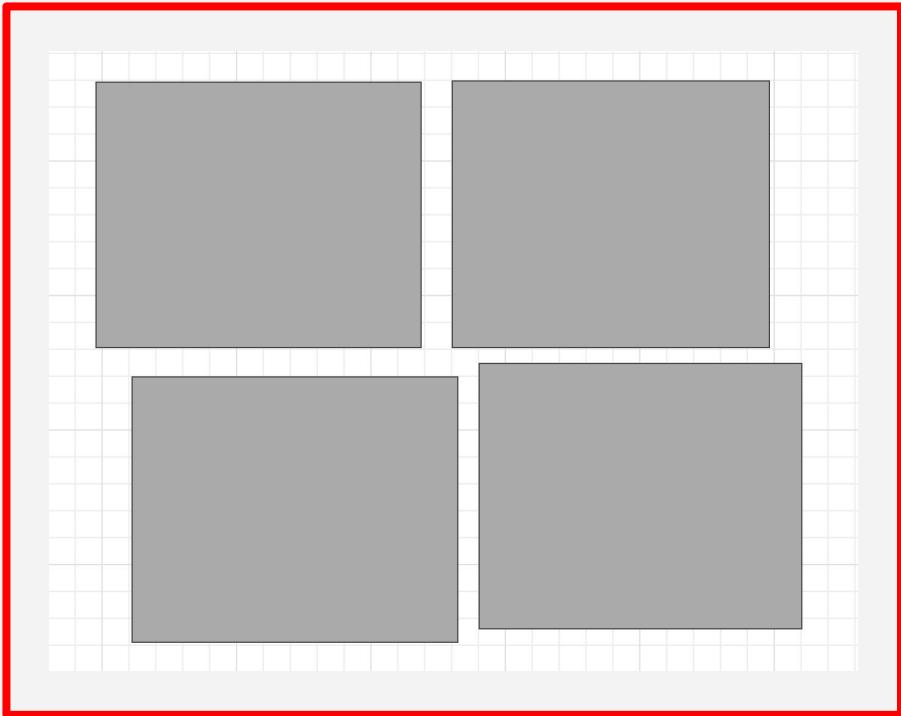
MIDDLE

CENTER

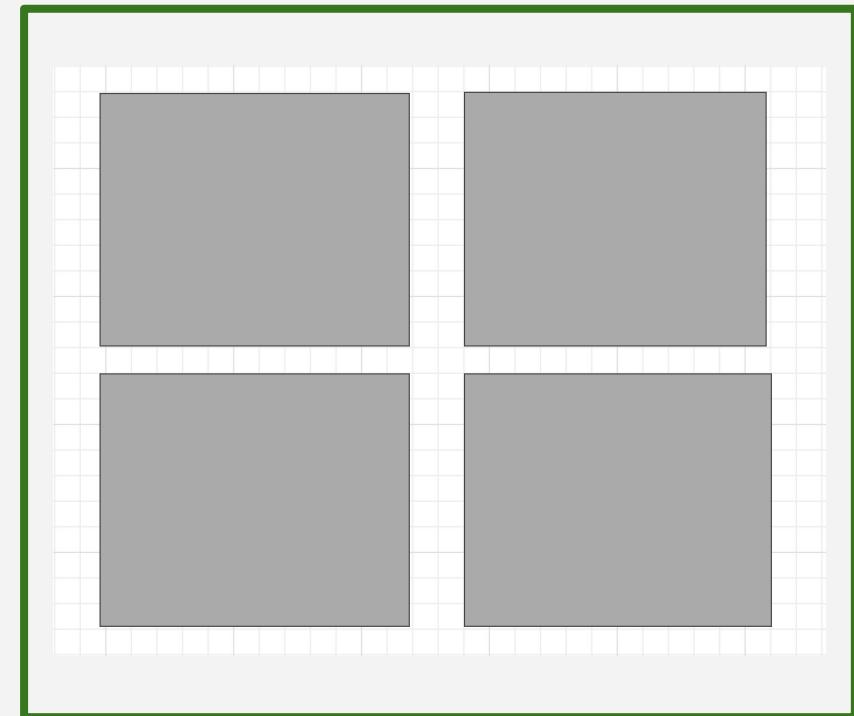
BOTTOM

TOP

Basic Design: Alignment



Bad



Good

Basic Design

Good to know the basics and apply them.

Good design is sometimes invisible to most users. If no one has a problem reading your page, they won't notice.

You can break these rules, but be ready to explain why you're doing so.

What questions
do you have?

Wireframes

Wireframing

What is a wireframe?

A simplified mock of a website. A blueprint you can use or show others during the design process. Helps you figure out what you want to highlight on your site.

It can range from being a sketch made on paper or a more elaborate, almost real looking mock-up.

Wireframing

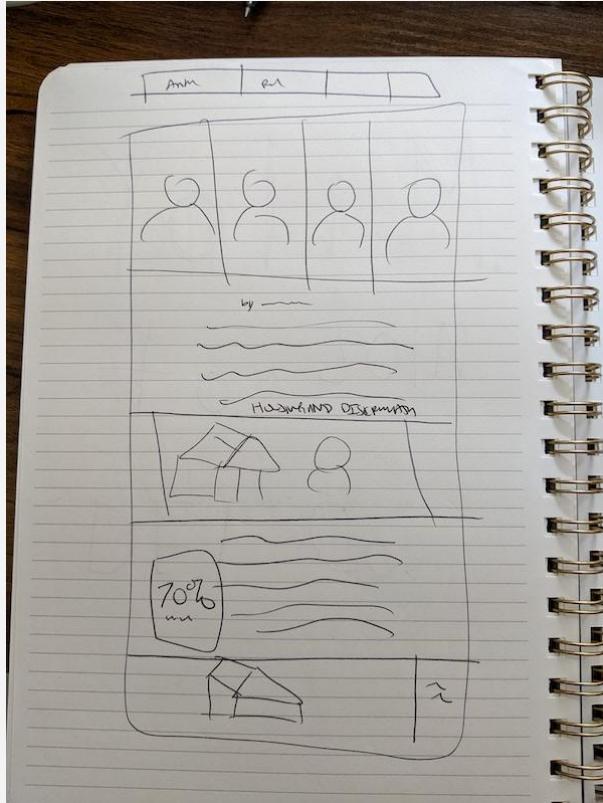
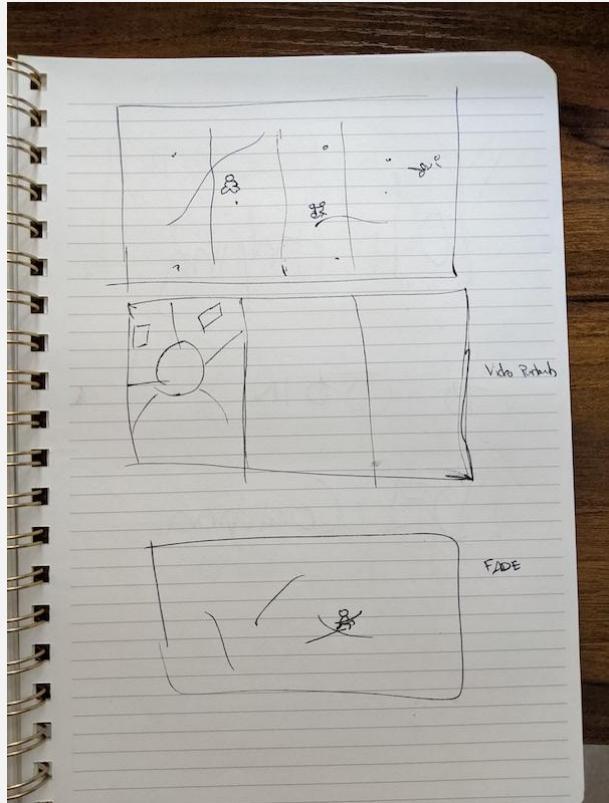
Why do you need to create one?

Give you a low-stakes way to experiment!

Saves you time! Let's you get buy in for a design before you put in more work building it.

A great way to collaborate!

Wireframing



Wireframing: The Atlantic Homepage

Mobile

The Atlantic

Read *The Atlantic's* continuing coverage of Russia's war on Ukraine here.



The War in Ukraine Is Just Beginning

Conflicts, though typically started easily, can be brutal, intractable, and difficult to end.

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Brittney Griner's Plight Says More About America Than Russia

JEMELE HILL



The Things I'm Afraid to Write About

SARAH HEPOLA

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'We're Going to See an Exodus From Russia to Hollywood'

American studios aren't sacrificing much, but Russian moviegoers and filmmakers will pay a steep price.

SHIRLEY LI



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The GOP seems relieved to have bipartisan agreement—and to distance itself a bit from Donald Trump.

ELAINE DOBREY



Nine Books to Read to Understand the War in Ukraine

These books—memoir, fiction, and nonfiction—offer a glimpse into a century of historical context in Eastern Europe.

MARCI SHORE



'I Imagined a Future That Was Neither Utopian nor Dystopian'

Colin Farrell and Kogonada discuss their new film, *Afterimage*, and the unique vulnerabilities of parenting, stiffness, and organic collaboration.

DAVID SINES

The West Isn't Doing Enough

We Need to Relearn What

Our Brains Want the

Mobile:

The Atlantic homepage

<https://www.theatlantic.com/>

The screenshot shows the mobile version of The Atlantic's homepage. At the top right is a red 'A' logo and a 'Subscribe' button. Below it is the masthead 'The Atlantic'. A sub-headline reads 'Read *The Atlantic*'s continuing coverage of Russia's war on Ukraine here.' To the left of the main content area is a sidebar with three horizontal lines and a small image of a green turtle.

The War in Ukraine Is Just Beginning
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SARAH HEPOLA

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JUDITH LEWIS MERNIT

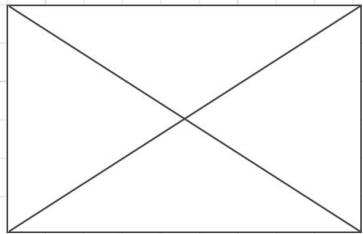
The Pandemic After the Pandemic
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H. ARMSTRONG ROBERTS / CLASICSTOCK / GETTY; GABRIELA PESQUIDA / THE ATLANTIC

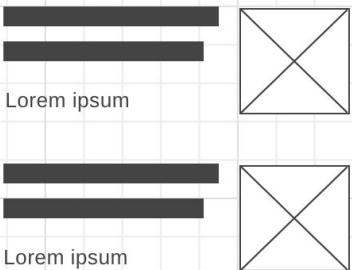
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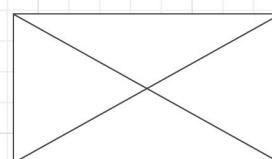
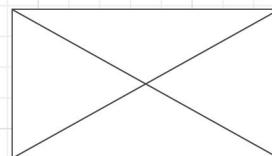
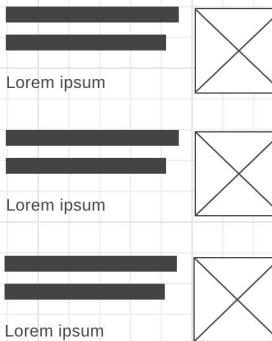
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ADD SPACE



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Brittney Griner's Plight Says More About America Than Russia

JEMELE HILL



H. ARMSTRONG ROBERTS / CLASICSTOCK / GETTY; GABRIELA PESQUIDA / THE ATLANTIC

The Things I'm Afraid to Write About

SARAH HEPOLA

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The Atlantic's crossword puzzle gets a little more challenging every day, with the biggest puzzle on Sunday.

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ELAINE GODFREY



Nine Books to Read to Understand the War in Ukraine
These books—memoir, fiction, and nonfiction—offer a glimpse into a century of historical context in Eastern Europe.

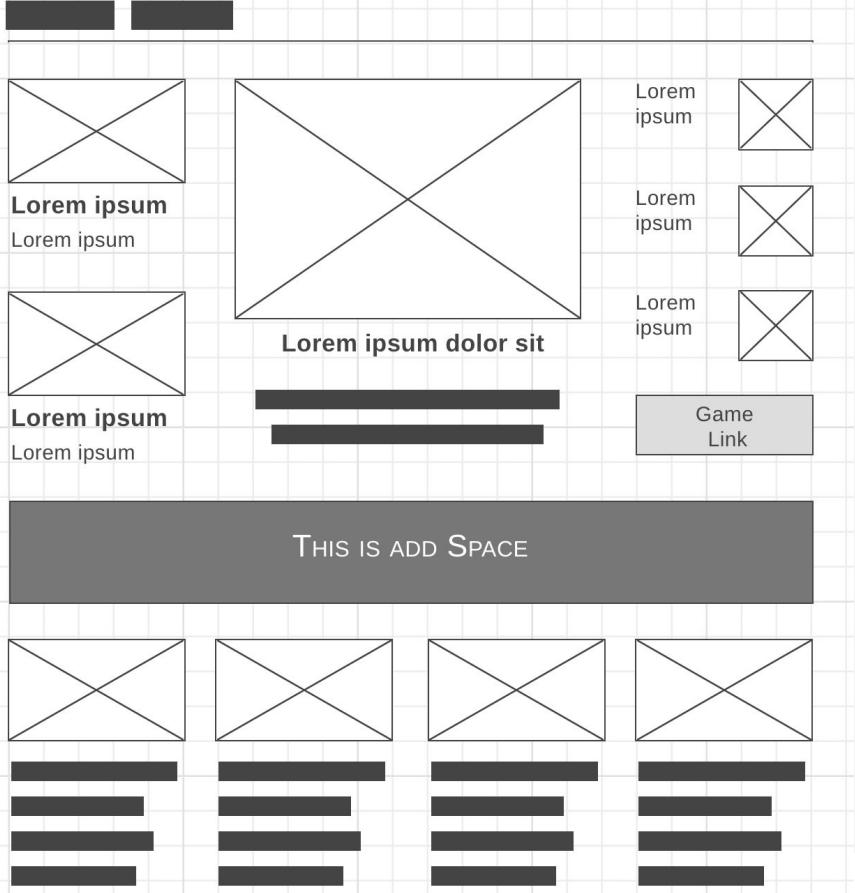
MARCI SHORE



'I Imagined a Future That Was Neither Utopian nor Dystopian'
Colin Farrell and Kogonada discuss their new film, *After Yang*, and the unique vulnerabilities of parenting, stillness, and organic collaboration.

DAVID SIMS

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The Atlantic

Read *The Atlantic's* continuing coverage of Russia's war on Ukraine here.


Brittney Griner's Plight Says More About America Than Russia
JEMELE HILL


The War in Ukraine Is Just Beginning
Conflicts, though typically started easily, can be brutal, intractable, and difficult to end.
YASMEEN SERHAN


The Things I'm Afraid to Write About
SARAH HEPOLA

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We're Going to See an Exodus From Russia to Hollywood
American studios aren't sacrificing much, but Russian moviegoers and filmmakers will play a bit from Donald Trump.
SHIRLEY LI

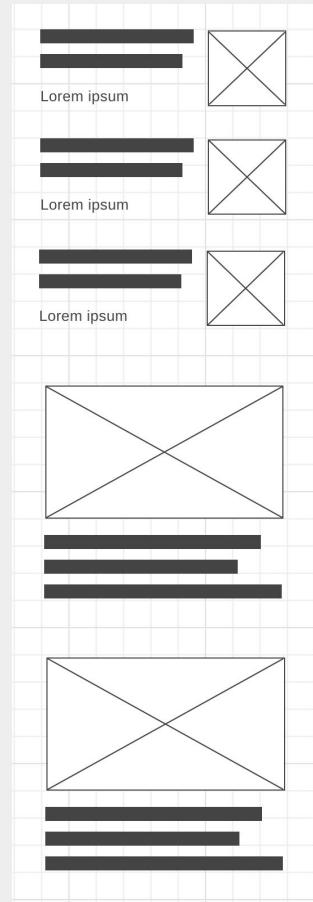
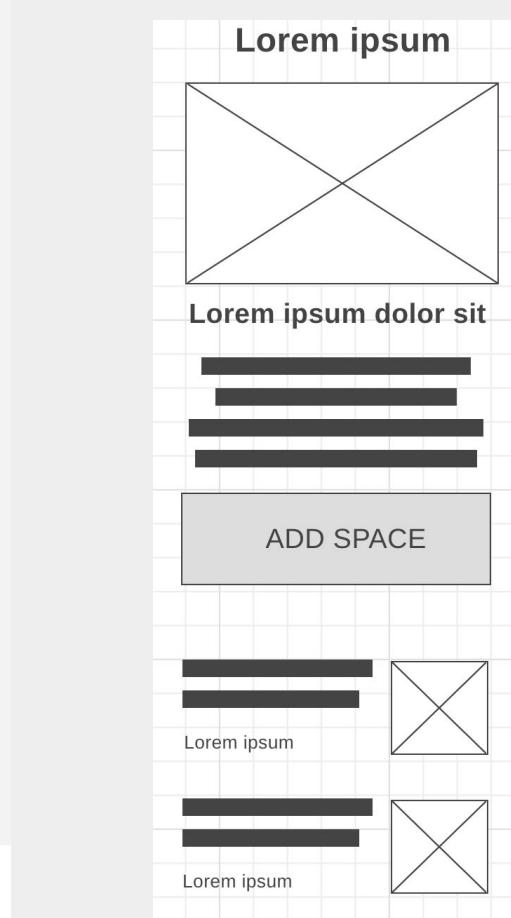
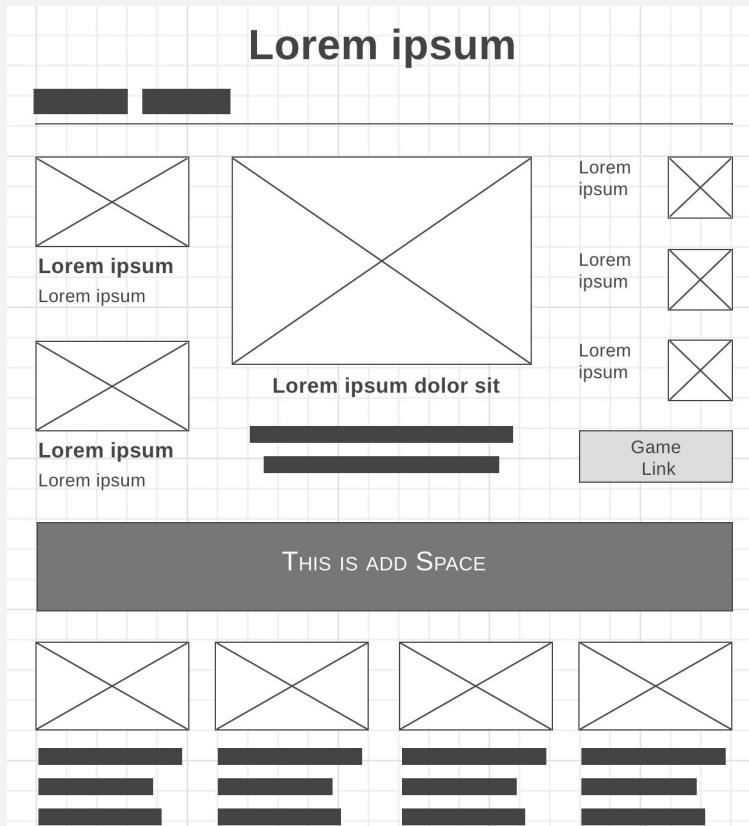

Congressional Republicans Have Found Their Red Line
The GOP seems relieved to have bipartisan agreement—and to distance itself a bit from Donald Trump.
ELAINE GODFREY


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The West Isn't Doing Enough We Need to Relearn What Our Brains Want the

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<https://www.kqed.org/>



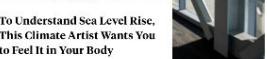
The KQED homepage is displayed in a mobile-friendly layout. At the top, there's a navigation bar with 'KQED' and a 'Sign In' button. Below it, a search bar and a menu icon are visible. A 'Live Radio' button and a 'Radiolab' dropdown are also present. The main content area features a 'TODAY'S TOP STORY' section with a video thumbnail showing three people on a school field. Below this, a large headline reads 'Mayor Breed Appoints 3 SFUSD Parents to Fill School Board Seats Vacated After Historic Recall'. A brief summary follows, mentioning Breed's swearing-in of new board members. Further down, a 'LATEST NEWS' section lists two articles: 'Here's How State lawmakers Want to Help Californians Deal With High Gas Prices' and 'Phuong Tam, Sixties Star of Vietnam Surf Rock, Reclaims Her Legacy at 77'. Each news item includes a thumbnail image and a timestamp.

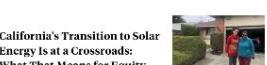
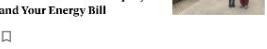
- 3** Asm. James Gallagher | "Sold Out" | This Week in California News
21h ago 
- 4** They Were Under the Radar, But Two CA Singers Leave Lasting Musical Legacies
Mar 11 
- 5** Sing a Song for Emilio Delgado
Mar 11 



A promotional banner for the documentary 'SOLD OUT: Rethinking Housing in America'. It features a large 'SOLD OUT' title, a subtitle 'Rethinking Housing in America', and a 'NEW SEASON' tag. Below the title is a thumbnail image of a colorful, modern house. At the bottom, there are 'LISTEN NOW' and 'KQED' buttons.

Science

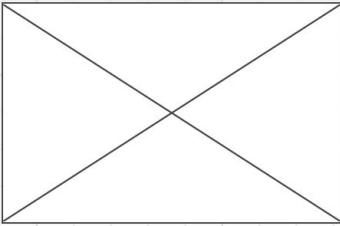
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- California Can Once Again Set Its Own Car Emissions Standards

- California's Transition to Solar Energy Is at a Crossroads: What That Means for Equity and Your Energy Bill


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TODAY'S TOP STORY

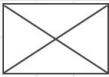


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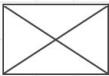


LATEST NEWS

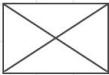
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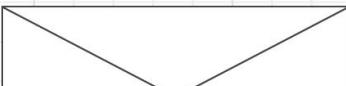


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TODAY'S TOP STORY



**Mayor Breed Appoints 3 SFUSD
Parents to Fill School Board
Seats Vacated After Historic
Recall**

Breed swore in Ann Hsu, Lainie Motamed and Lisa Weissman-Ward, who will join the seven-member board. They replace Alison Collins, Gabriela López and Faauuga Moliga, who were ousted in a citywide recall vote on Feb. 15.

Mar 11

LATEST NEWS

1. Here's How State lawmakers
Want to Help Californians
Deal With High Gas Prices



7h ago

2. Phương Tâm, Sixties Star of
Vietnam Surf Rock, Reclaims
Her Legacy at 77



21h ago

3. Asm. James Gallagher | "Sold
Out" | This Week in California
News

21h ago



4. They Were Under the Radar,
But Two CA Singers Leave
Lasting Musical Legacies

Mar 11



5. Sing a Song for Emilio Delgado

Mar 11



SOLD OUT

Rethinking Housing in America

NEW SEASON



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To Understand Sea Level Rise,
This Climate Artist Wants You
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1 **How State Lawmakers Want to Help Californians Deal With High Gas Prices**
6h ago

2 **Phuong Tran, Sixties Star of Vietnam Surf Rock, Reclaims Her Legacy at 77**
20h ago

3 **Asm. James Gallagher: "Sold Out" This Week in California News**
20h ago

4 **They Were Under the Radar, But Two CA Singers Leave Lasting Musical Legacies**
May 11

5 **Sing a Song for Emilio Delgado**
May 11


Mayor Breed Appoints 3 SFUSD Parents to Fill School Board Seats Vacated After Historic Recall
Read more in Ann Hsu, Tatine Metamell and Lisa Weissman-Ward, who will join the seven-member board. They replace Alison Collins, Gabriela López and Francisca Moliga, who were ousted in a citywide recall vote on Feb. 15.
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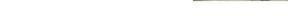
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To Understand Sea Level Rise, This Climate Artist Wants You to Feel It in Your Body
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At the de Young, Alice Neel's Paintings Assert the Dignity of All People
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California Can Once Again Set Its Own Car Emissions Standards
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Peptoc, a New Hotline Voiced by Healdsburg Kids, Will Brighten Your Day
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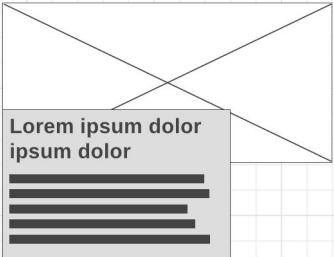

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TODAY'S TOP STORY



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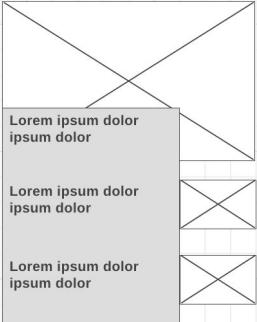
LATEST NEWS

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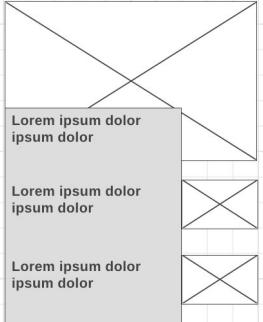
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TODAY'S TOP STORY



Mayor Breed Appoints 3 SFUSD Parents to Fill School Board Seats Vacated After Historic Recall

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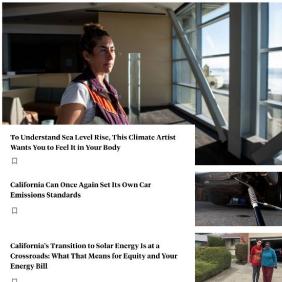
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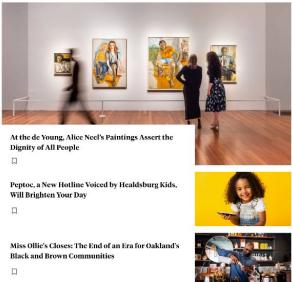
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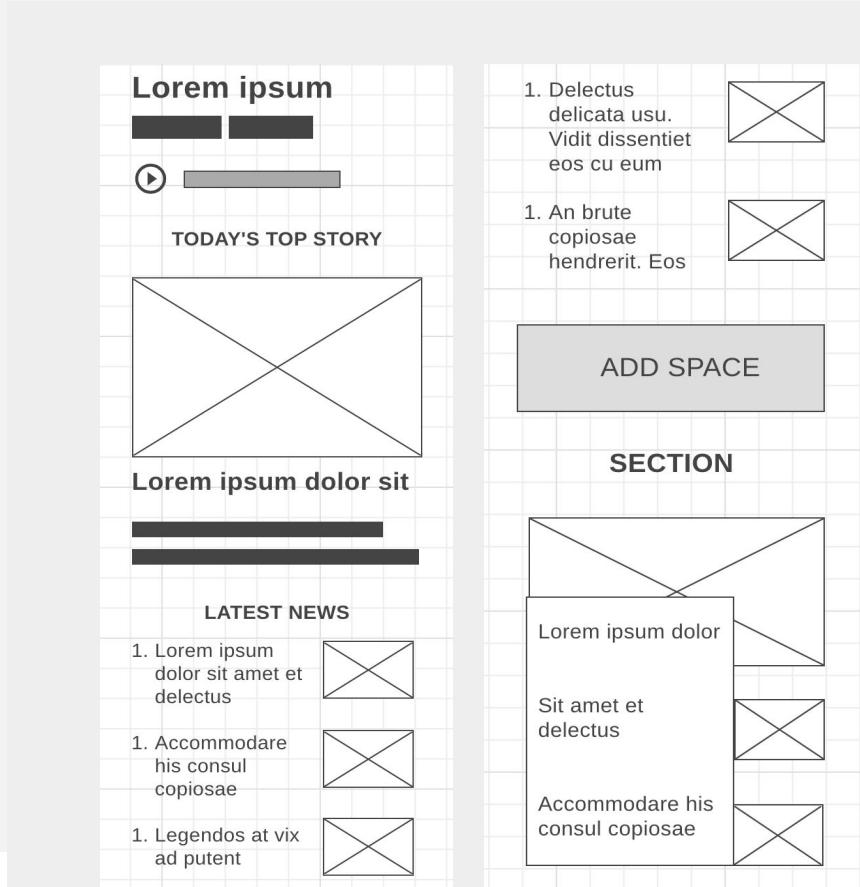
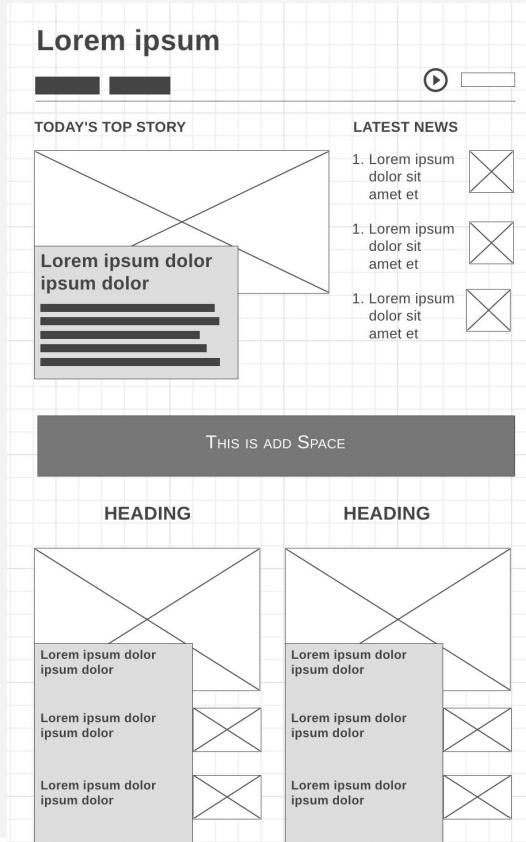
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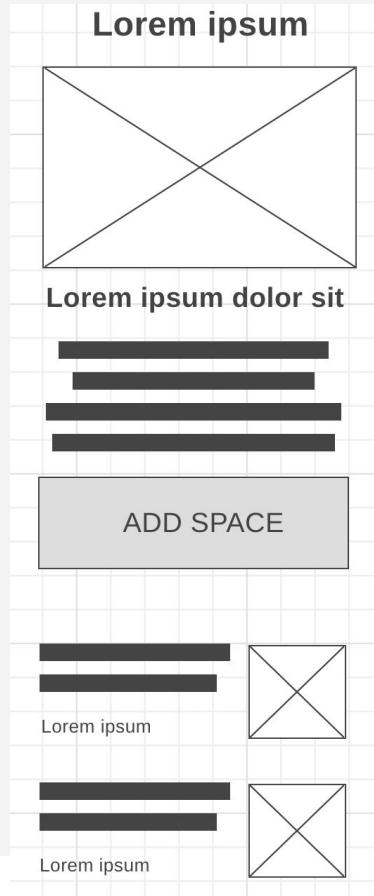
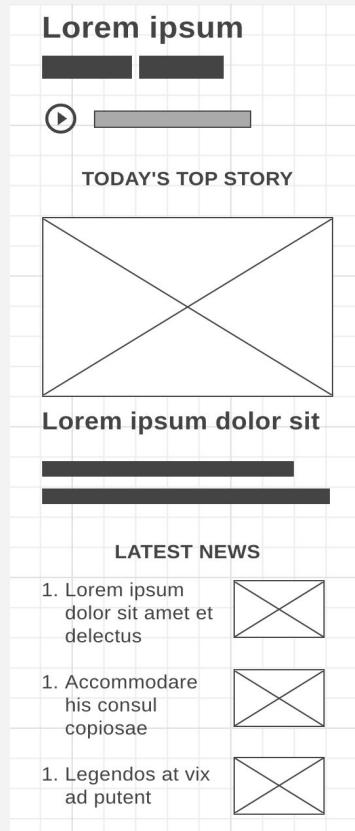
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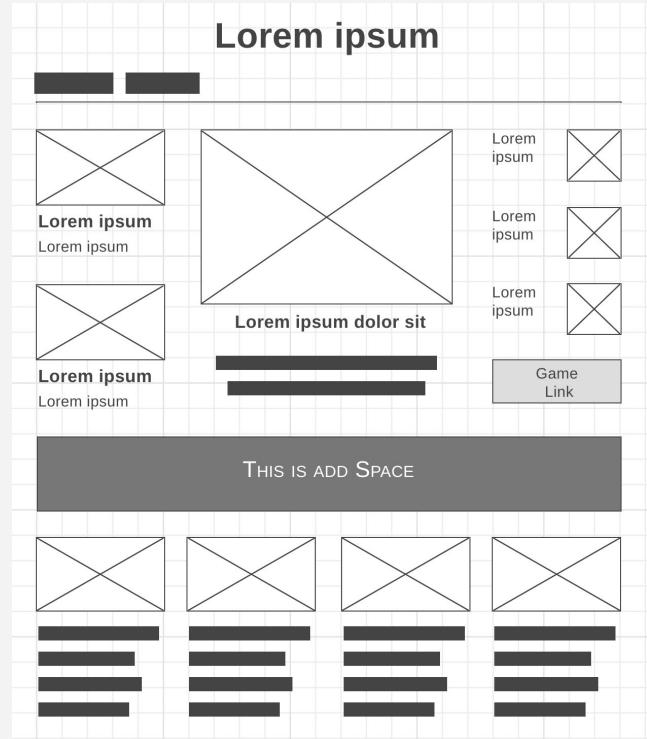
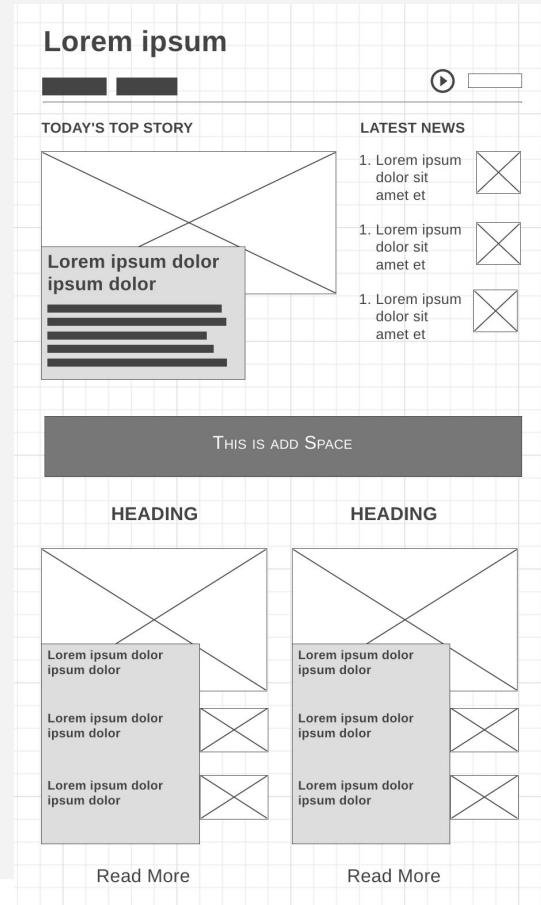
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Wireframing: Many ways to design for mobile



Wireframing: Many ways to design for desktop



Brainstorming and Inspiration

How to research and look for inspiration

Just like any reporting project,
you want to see what has
been published.

Don't limit yourself to just
news sites. Look at marketing
campaigns, design studios,
awards.

Here are some links to get you
started:

How to research and look for inspiration

This is work you do constantly, not just when you have something to build. So make sure you are saving links that you like.

1. Create a bookmark
2. Save links on a Google Spreadsheet, with categories
3. Make time (30 mins - 1 hour) once a week to just look at what has been published
4. Create lists on design/data lists on Twitter. People share their work all the time
5. Find a designer/journalists whose work you like? Save their author page.

How to research and look for inspiration

Just like any reporting project, you want to see what has been published.

Don't limit yourself to just news sites. Look at marketing campaigns, design studios, awards.

Here are some links to get you started:

1. Datawrapper's weekly DataVis Dispatch newsletter
(<https://blog.datawrapper.de/category/data-vis-dispatch/>)
2. Awwward
(<https://www.awwwards.com/>)
3. Society for News Design
(<https://snd.org/>)
4. CSS Design Awards
(<https://www.cssdesignawards.com/>)

In-class exercise: wireframe.cc

Podcast Page

Requirements:

- Logo of podcast should be a prominently displayed
- Photo and short bio for two hosts
- Feature most recent episode
- Icons to audio streaming platforms

Garden Section

Requirements:

- Newsletter signup
- Featured video with a short description
- Latest news section, at least 3 items
- Submission form for reader gardening questions

Submit link to your wireframe



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