

J220

Coding for Journalists

LECTURER

Yoli Martinez

PROMPTS

Sign into Poll Everywhere:

<https://pollev.com/yolim>

start Zoom recording + captions

Agenda

Announcements

CSS layouts: Float and Position

Advanced CSS: UX/UI with Transitions, Pseudo-elements and classes

BREAK

Design inspiration

Wireframing

Class Activity

Homework

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.

```
<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>  
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  </section>  
  <section>  
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    <p>Cras fermentum blandit porttitor.</p>  
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    </figure>  
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  </section>  
  <section>  
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    </figure>  
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Let's do some basic styling to see the page.

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}  
  
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.

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

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

```
lt="a cat  
a cat.</fi
```

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

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

```
lt="a cat  
a cat.</figcaption
```

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

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

```
lt="a cat walking in show">  
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">  
              
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        </figure>  
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Using float left



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

```
t="a cat  
cat.</fi
```

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

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

```
t="a cat  
cat.</figcaption
```

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

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

```
t="a cat walking in show">  
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>  
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        <p>Cras fermentum blandit porttitor.</p>  
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CSS Float

The old styling
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```
.floatLeft {  
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}
```

Examples of using the float property

figure.floatLeft 150.48 x 144.45



Sometimes petting a
cat can help with stress

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

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```
<main>  
    <h1>Examples of using the float property</h1>  
    <section>  
        <img alt="A black and white photograph of a cat walking on a surface covered in small, light-colored objects, possibly cat litter or sand."/>  
        <caption>Sometimes petting a  
cat can help with stress</caption>  
        <p>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 imperdier tempus ex et pretium. Donec consectetur metus eu augue consectetur</p>  
    </section>  
</main>
```

cat

</fi

p>

p>

cat

</figcaption>

p>

p>

cat walking in show">

</figcaption>

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

Notice figure still retains its
inherit margins.

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>  
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        <figure class="floatNone">  
              
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Examples of using the float property

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```
</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%;  
}
```

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<main>  
    <h1>Examples of using the float property</h1>  
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        </figure>  
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Using float right

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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>  
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        <h2>Using float left</h2>  
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    width: 30%;  
}  
  
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    float: none;  
    width: 30%;  
}
```

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

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.



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        <figure class="floatLeft">  
              
            help with  
    </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.

```
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  <section>
    <h2>Using float left</h2>
    <figure class="floatLeft">
      
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    <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



Sometimes petting a cat can help with stress

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Using float right

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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>  
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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.

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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.

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Sometimes petting a cat can help with stress

Using float none

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</main>

Yes clear

No clear

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

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Using float right



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

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Using float none

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



Examples of using the float property

Using float left

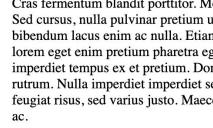


Sometimes petting a cat can help with stress

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

Using float right



Using float none

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



Sometimes petting a cat can help with stress

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

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.

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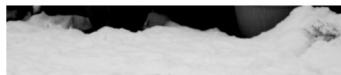
Using float right

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.

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Using float none

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.



```
</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

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.

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pulvinar ligula, consequat sagittis mauris. Sed cursus, nulla pulvinar dolor, nec bibendum lacus enim ac nulla. Etiam ornare aliquet enim pretium pharetra eget viverra neque. Nulla vitae sem. Donec consectetur metus eu augue consectetur rutrum. Nulla maximus aliquam. Sed vel feugiat risus, sed varius justo. Maecenas tempor ante dui, et semper lorem aliquet ac.

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 class= "html" lang="en">
  <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 class= "html" lang="en">  
    <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 class= "html" lang="en">  
  <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 class= "html" lang="en">  
    <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 class= "html" lang="en">  
    <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 class= "html" lang="en">  
  <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 class= "html" lang="en">  
    <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 class= "html" lang="en">  
  <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 class= "html" lang="en">  
  <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 class= "html" lang="en">  
  <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 class= "html" lang="en">  
  <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 class= "html" lang="en">  
  <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 class= "html" lang="en">  
  <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 class="html" lang="en">  
  <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
vitae 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 class="html" lang="en">  
  <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 class= "html" lang="en">  
    <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

All it technically requires is the content property. It can be a string, a symbol or left empty.

```
<!DOCTYPE html>
<html class="html" lang="en">
  <head>
    <!-- meta data -->
    <style>
      .redCircle::before {
        content: "";
      }
    </style>
  </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.

A way to show highlight data

```
<!DOCTYPE html>
<html class= "html" lang="en">
  <head>
    <!-- meta data -->
    <style>
      .redCircle::before {
        content: "";
      }
    </style>
  </head>
  <body>
    <article>
      <p>A way to show <span
class="redCircle">highlight</span> data</p>
    </article>
  </body>
</html>
```

::before

For the purpose of this example, let's use a string ("test") and add color so it's easy to see.

A way to show highlight data

```
<!DOCTYPE html>
<html class= "html" lang="en">
  <head>
    <!-- meta data -->
    <style>
      .redCircle::before {
        content: "test";
        color: "red";
      }
    </style>
  </head>
  <body>
    <article>
      <p>A way to show <span
class="redCircle">highlight</span> data</p>
    </article>
  </body>
</html>
```

::before

The element is added before the word highlight.

A way to show testhighlight data

```
<!DOCTYPE html>
<html class= "html" lang="en">
  <head>
    <!-- meta data -->
    <style>
      .redCircle::before {
        content: "test";
        color: "red";
      }
    </style>
  </head>
  <body>
    <article>
      <p>A way to show <span
class="redCircle">highlight</span> data</p>
    </article>
  </body>
</html>
```

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.

A way to show highlight**test** data

```
<!DOCTYPE html>
<html class= "html" lang="en">
  <head>
    <!-- meta data -->
    <style>
      .redCircle::after {
        content: "test";
        color: "red";
      }
    </style>
  </head>
  <body>
    <article>
      <p>A way to show <span
class="redCircle">highlight</span> data</p>
    </article>
  </body>
</html>
```

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 <blockquotes>

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

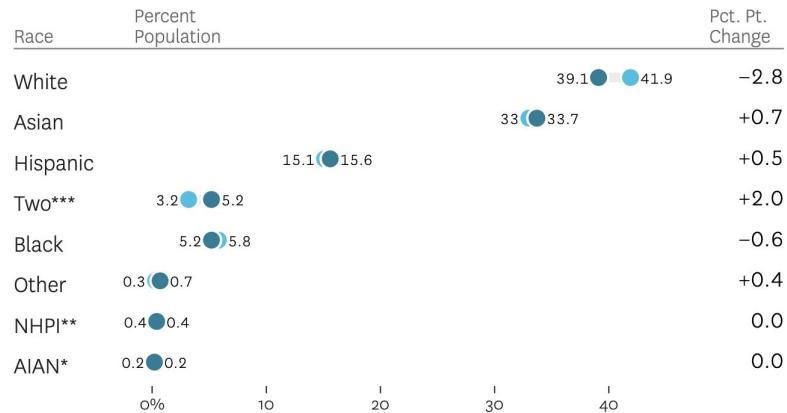
::before, ::after

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

Example:

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

Change in San Francisco County from ● 2010 to ● 2020



Note: Percent may not add up to 100 because of rounding.

*American Indian and Alaska Native **Native Hawaiian and Pacific Islanders ***Two or more races

::after

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:

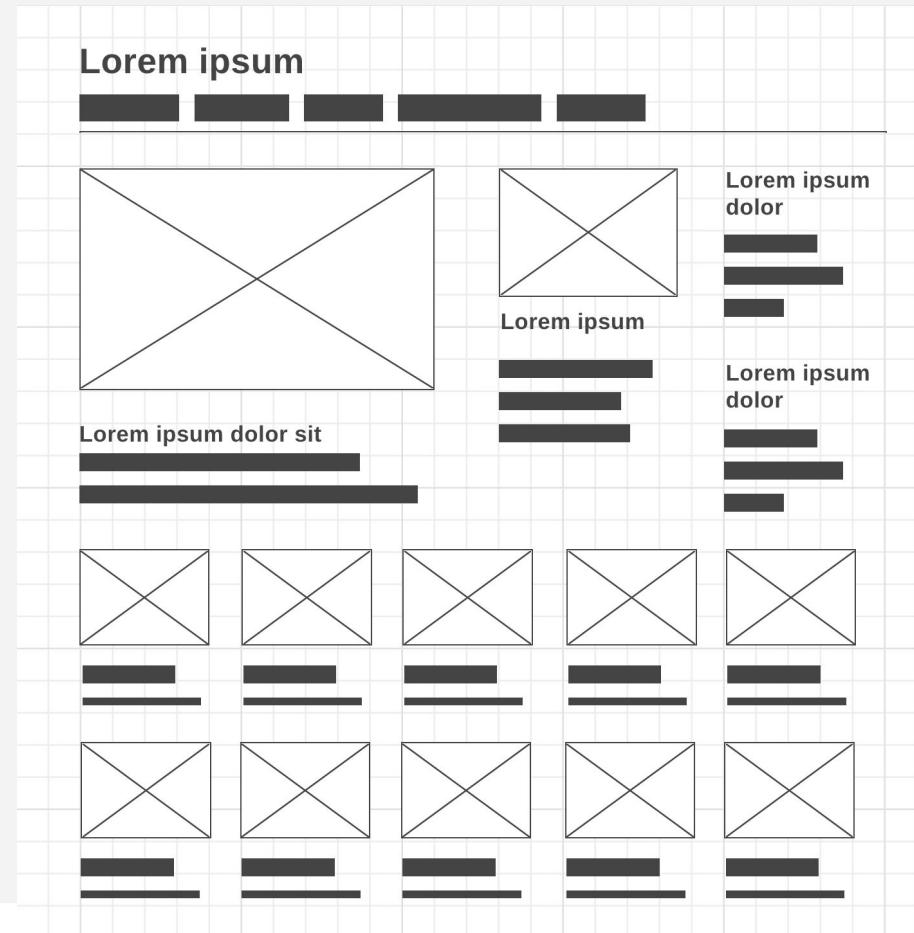
1. Hierarchy
2. Proximity
3. White space
4. Alignment

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.



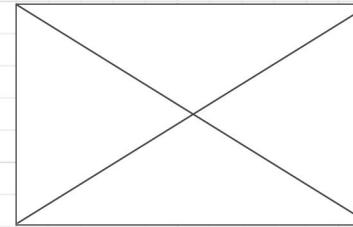
Basic Design

The black bars can represent paragraphs or headlines.

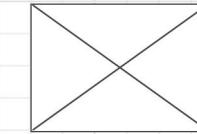
The boxes with an x across are stand-ins for photos.

We will work with these later in the class!

Lorem ipsum



Lorem ipsum dolor sit



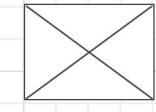
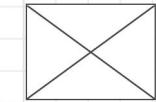
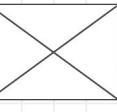
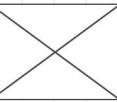
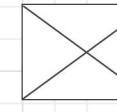
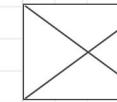
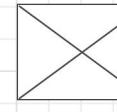
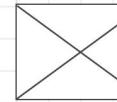
Lorem ipsum



Lorem ipsum dolor

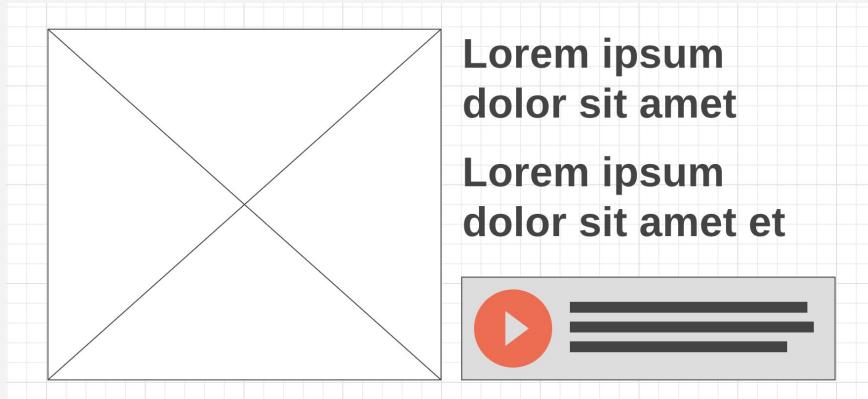


Lorem ipsum dolor



Basic Design: Hierarchy

Helps signify importance and order on the page



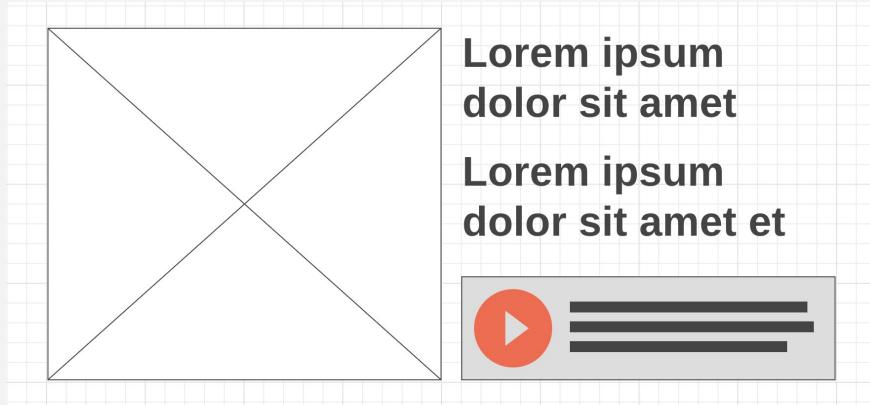
**Lorem ipsum dolor sit amet
et delectus accommodare**

**Lorem ipsum dolor sit amet
et delectus accommodare**

**Lorem ipsum dolor sit amet
et delectus accommodare**

Basic Design: Hierarchy

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



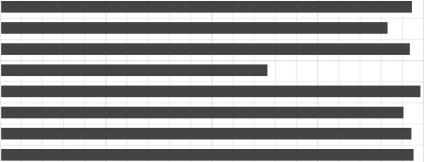
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Basic Design: Hierarchy

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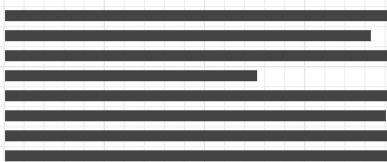
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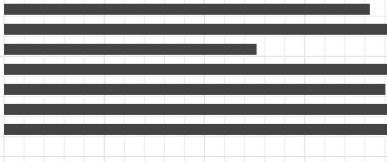


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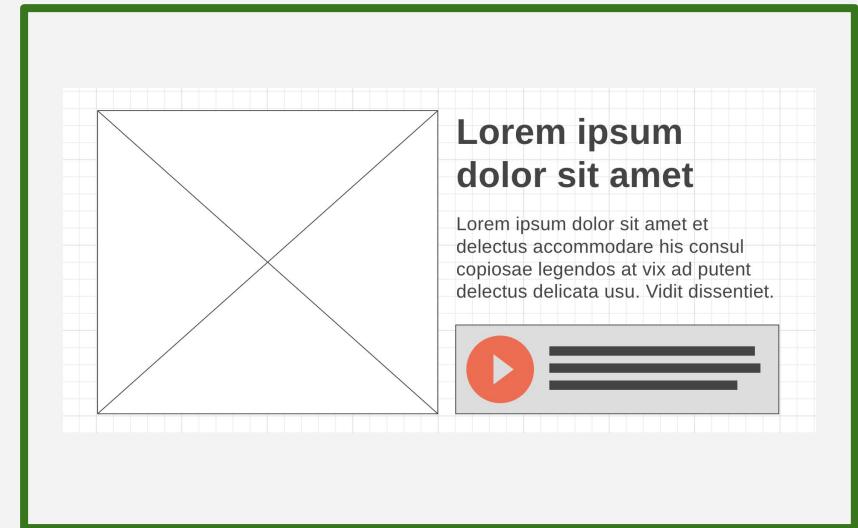
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Basic Design: Hierarchy



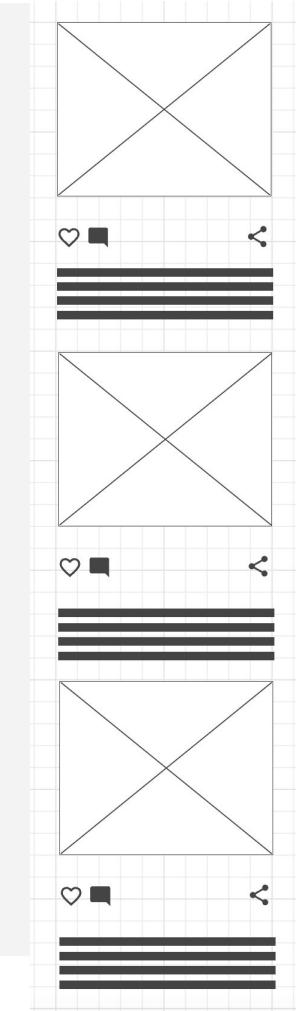
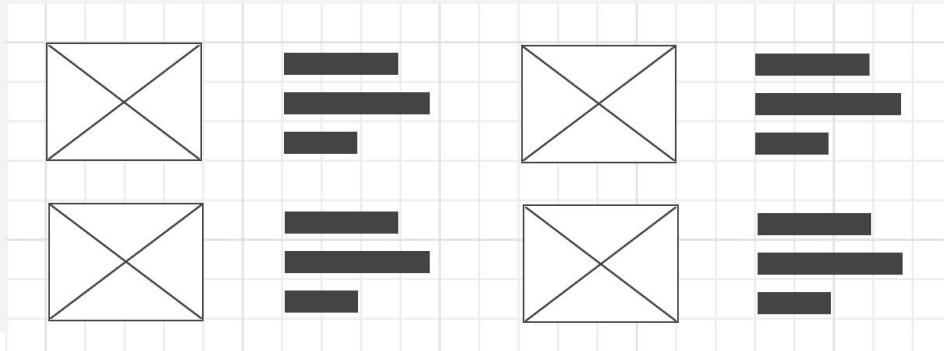
Bad



Good

Basic Design: Proximity

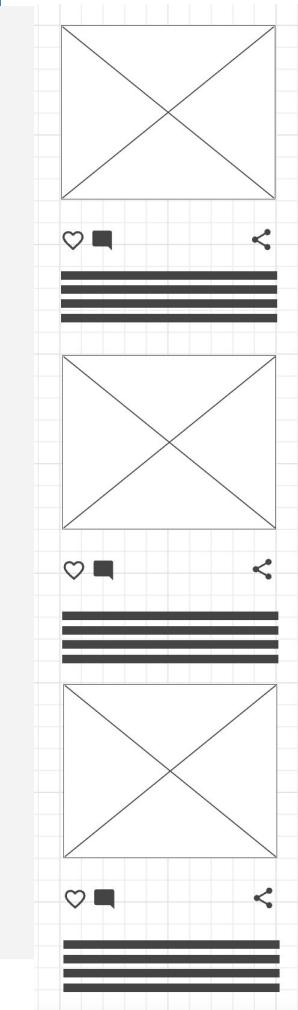
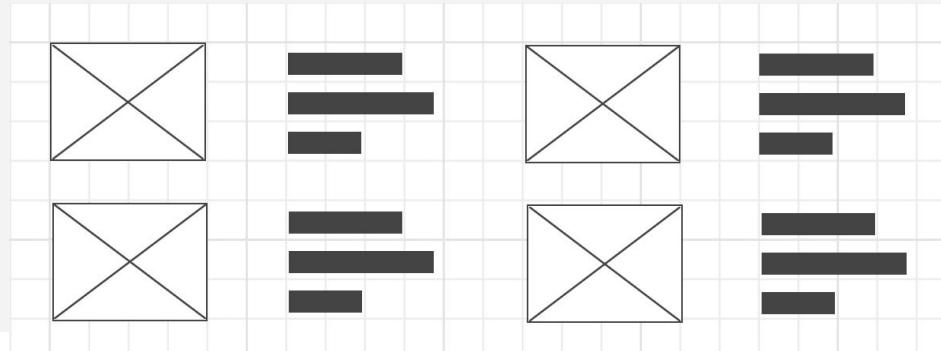
Helps with readability and grouping related elements together.



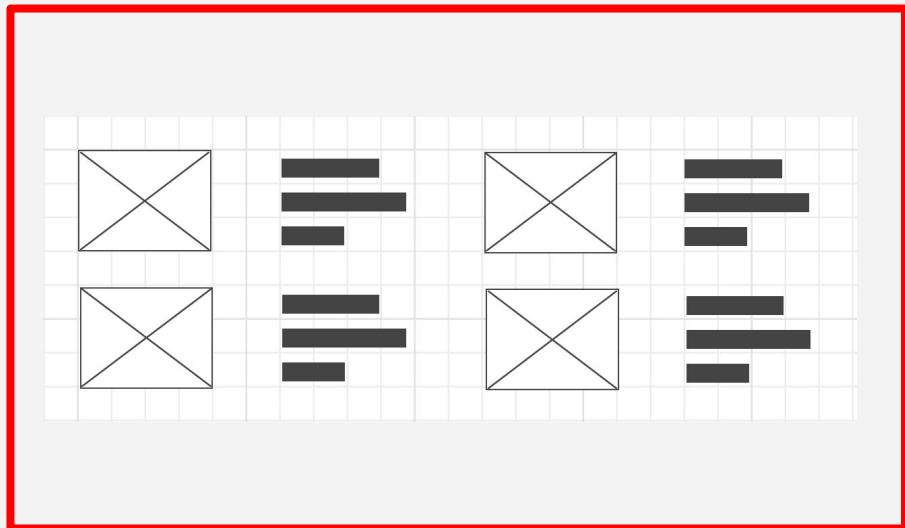
Basic Design: Proximity

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

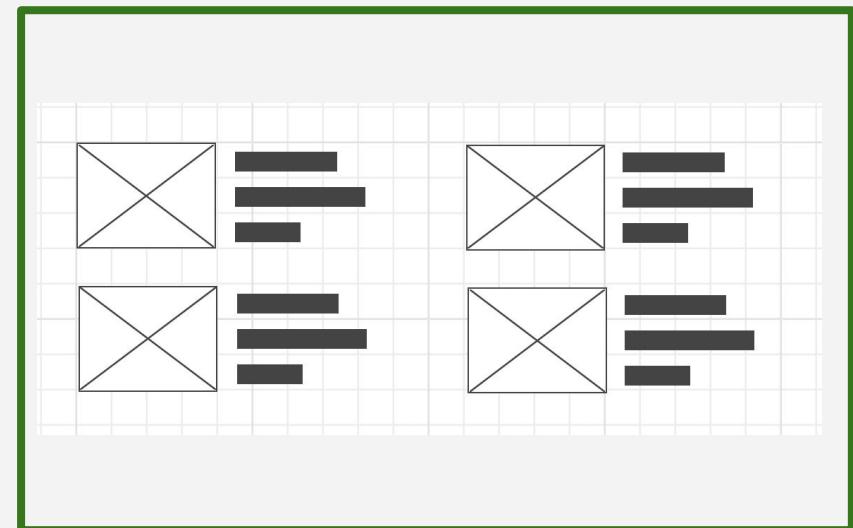
But it's hard to quickly figure out what
content is grouped together



Basic Design: Proximity

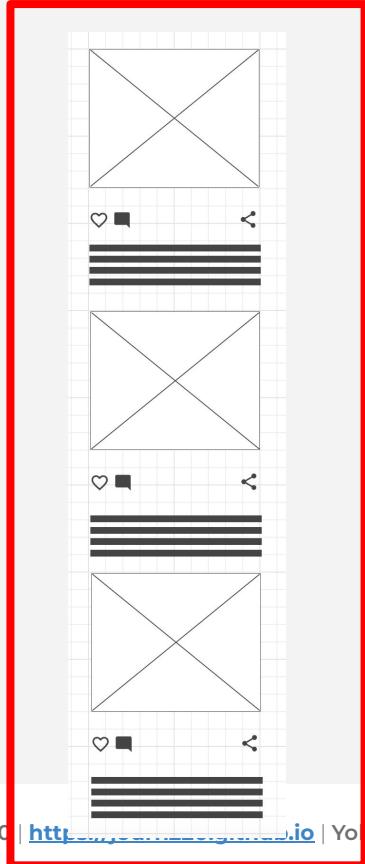


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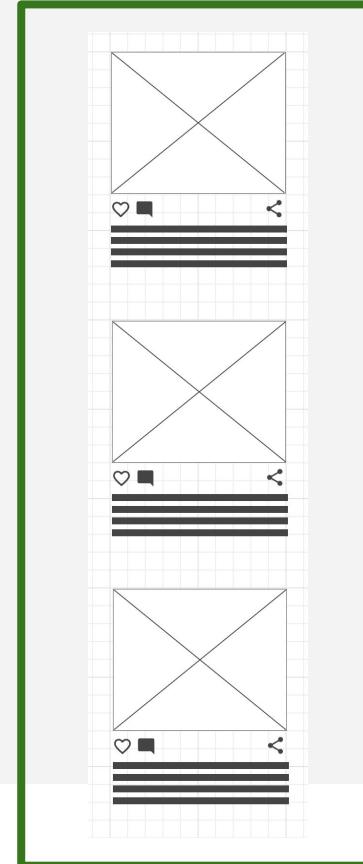


Good

Basic Design: Proximity



Bad

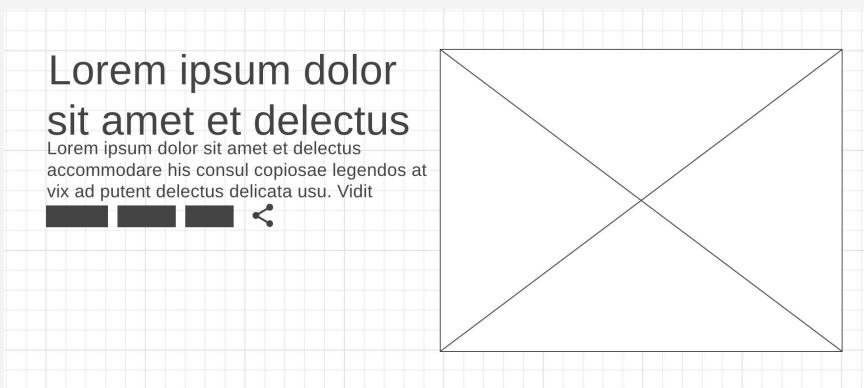


Good

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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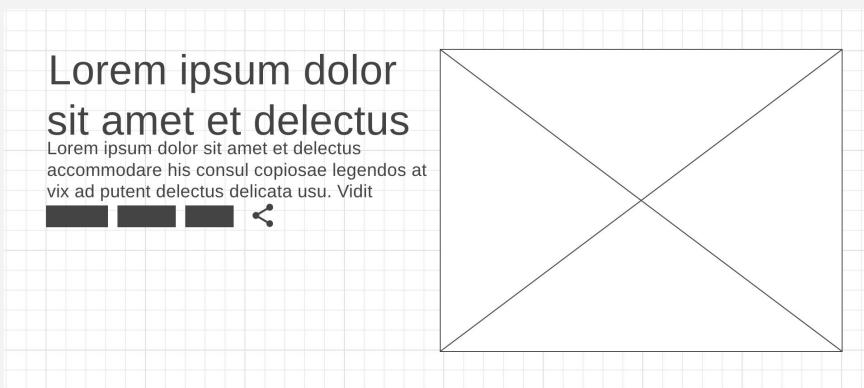
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Basic Design: White Space

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



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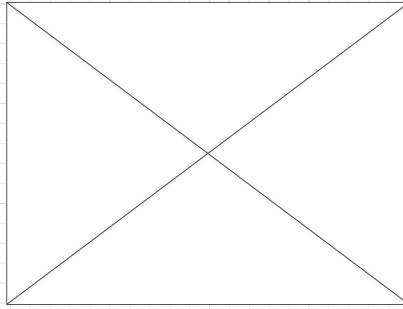
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Good

Basic Design: White Space

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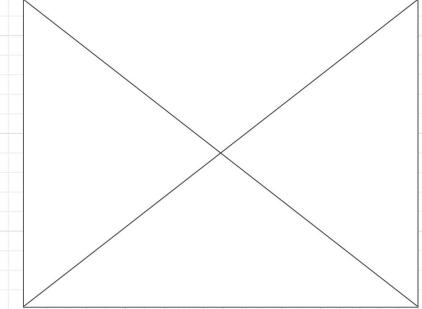
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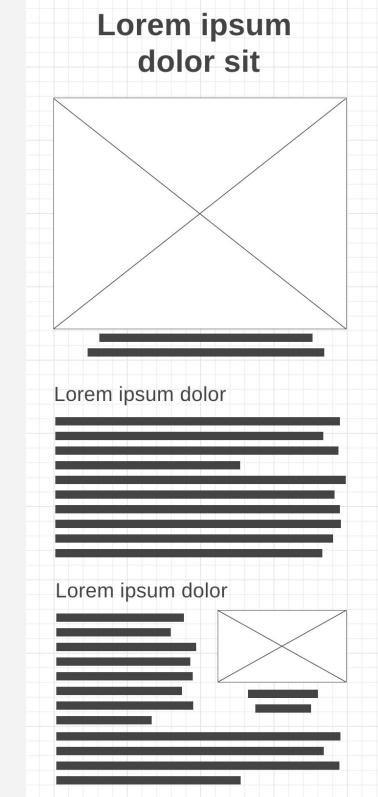
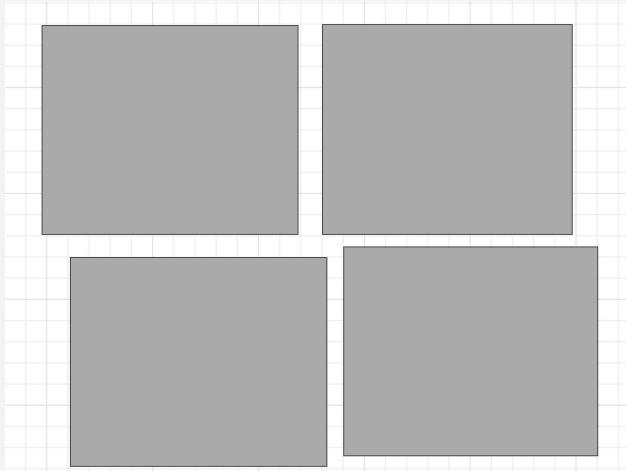
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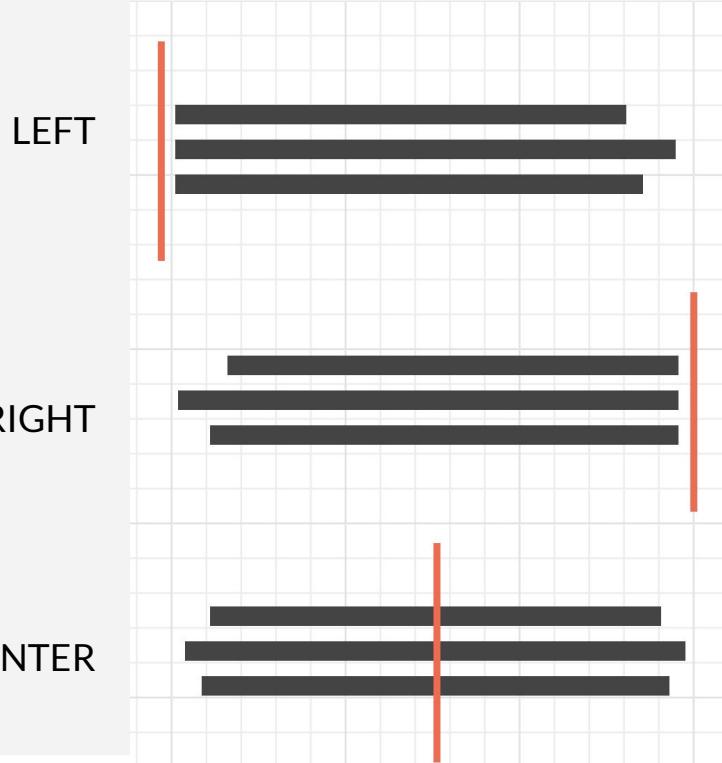
Good

Basic Design: Alignment

Probably the most used design principle.



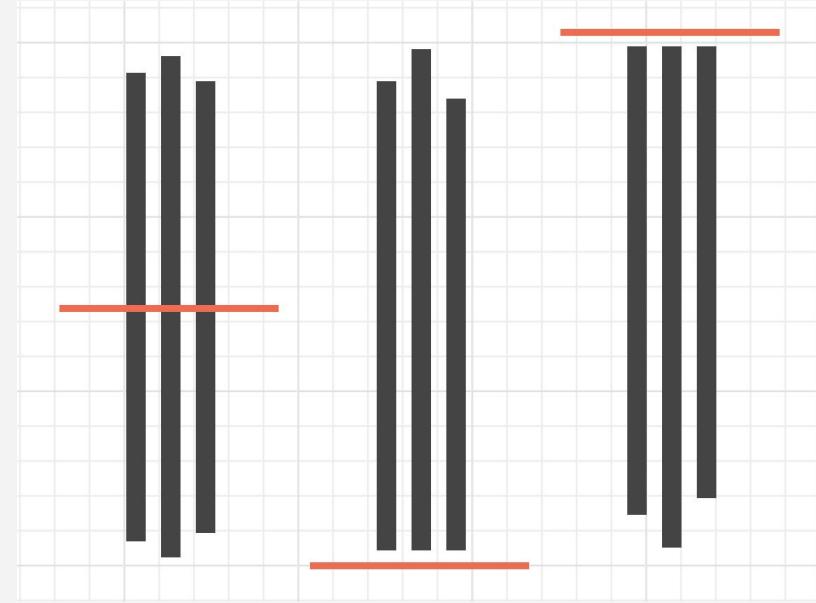
Basic Design: Alignment



LEFT

RIGHT

CENTER

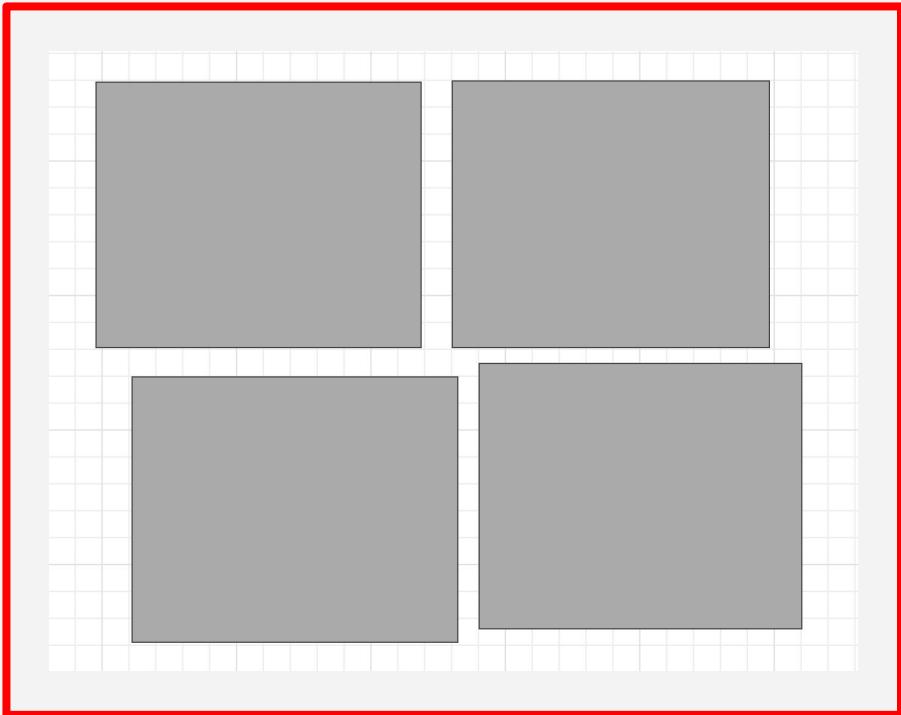


MIDDLE

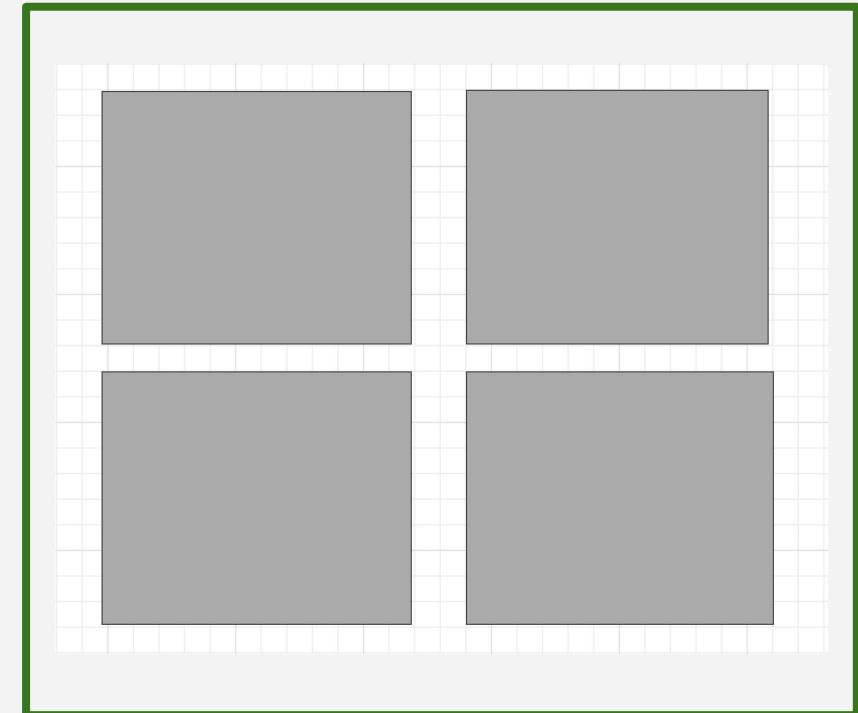
BOTTOM

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

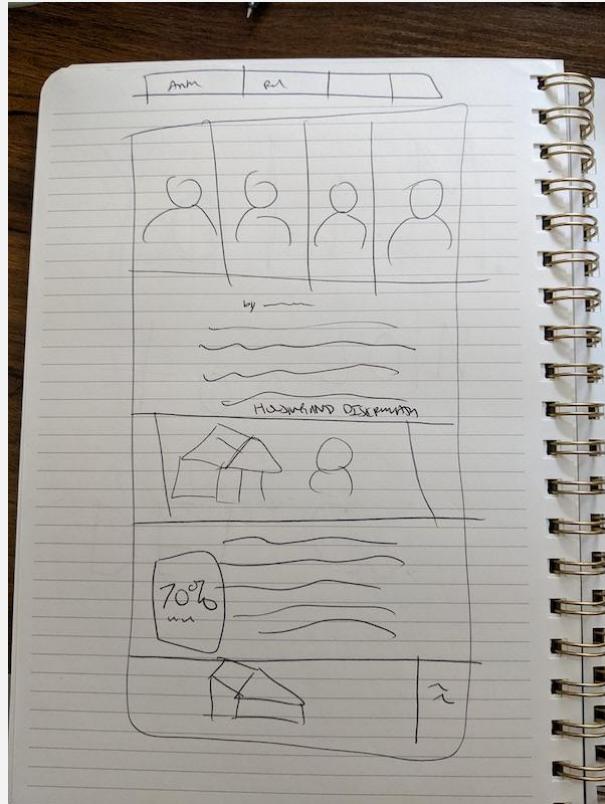
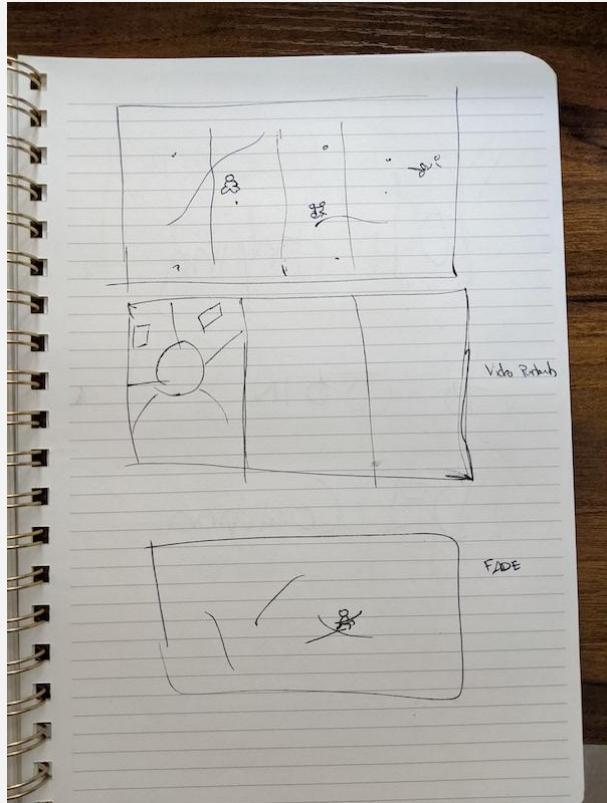
Why do you need to create one?

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



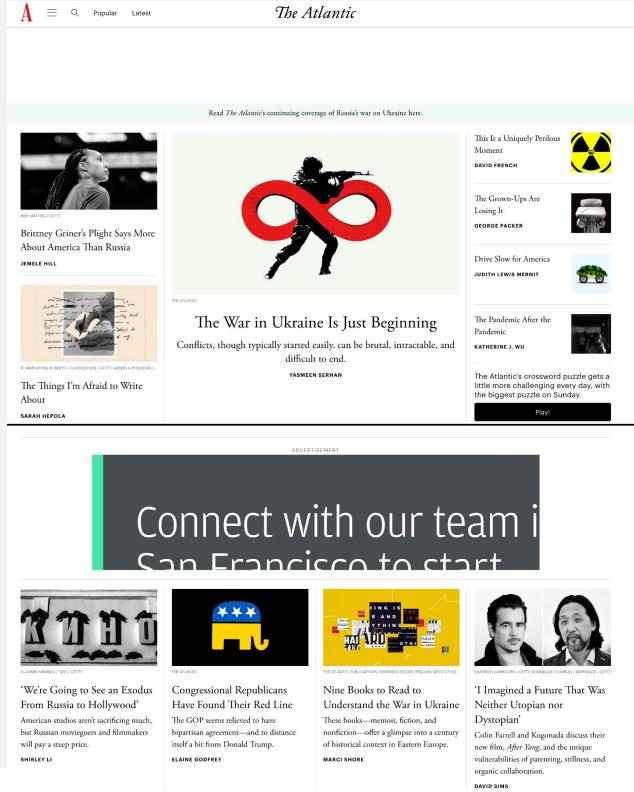
Wireframing: The Atlantic Homepage

Mobile



The mobile wireframe shows a header with a menu icon, a large red letter 'A' logo, and a 'Subscribe' button. Below the header is a callout for 'Russia's war on Ukraine'. The main article features a large red infinity symbol graphic over a silhouette of a soldier. The title is 'The War in Ukraine Is Just Beginning' by Yasmeen Serhan. A quote follows: 'Conflicts, though typically started easily, can be brutal, intractable, and difficult to end.' At the bottom, there's an 'ADVERTISEMENT' placeholder and a sidebar with articles like 'This Is a Uniquely Perilous Moment' by David French and 'The Grown-Ups Are Losing It' by George Packer.

Desktop



The desktop wireframe shows a header with a menu icon, a search bar, and links for 'Popular' and 'Latest'. The main section features a large red infinity symbol graphic over a silhouette of a soldier. The title is 'The War in Ukraine Is Just Beginning' by Yasmeen Serhan. A quote follows: 'Conflicts, though typically started easily, can be brutal, intractable, and difficult to end.' Below the main article is a sidebar with articles like 'This Is a Uniquely Perilous Moment' by David French and 'The Grown-Ups Are Losing It' by George Packer. Further down, there's a large advertisement for 'Connect with our team in San Francisco to start' and another sidebar with articles like 'Congressional Republicans Have Found Their Red Line' by Elaine Godfrey and 'Nine Books to Read to Understand the War in Ukraine' by Marci Shore.

Mobile:

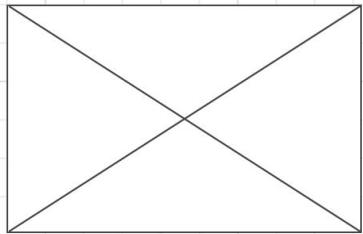
The Atlantic homepage

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

The screenshot shows the mobile version of The Atlantic's homepage. At the top, there is a navigation bar with a menu icon, a large red letter 'A' logo, and a 'Subscribe' button. Below the header, a headline reads "Read *The Atlantic*'s continuing coverage of Russia's war on Ukraine here." A large image of a soldier in silhouette against a red infinity symbol is displayed. The main article is titled "The War in Ukraine Is Just Beginning" by Yasmeen Serhan. Below it, there is an advertisement section. Further down, there are two more articles: "This Is a Uniquely Perilous Moment" by David French and "The Grown-Ups Are Losing It" by George Packer. Each article has a small thumbnail image.

This part of the screenshot shows more content from The Atlantic's mobile homepage. On the left, there is a sidebar with a "Drive Slow for America" section featuring an image of a turtle and a link to Judith Lewis Mernit. Below that is a section titled "The Pandemic After the Pandemic" by Katherine J. Wu. On the right, there is a "Sign up for our daily newsletter" form with fields for an email address and a "Sign up" button. Further down, there is a large black and white photograph of Brittney Griner looking upwards. To the right of the photo, the caption reads "Brittney Griner's Plight Says More About America Than Russia" by Jemele Hill. At the bottom, there is a section titled "The Things I'm Afraid to Write About" by Sarah Hepola, which includes a small image of a typewriter.

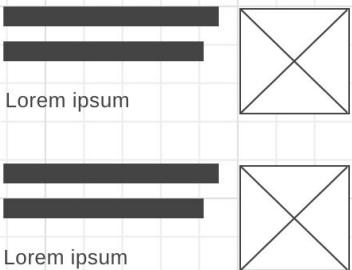
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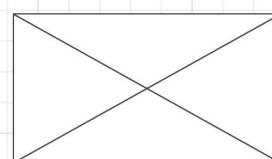
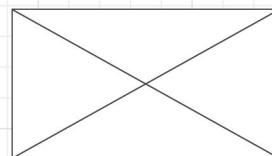
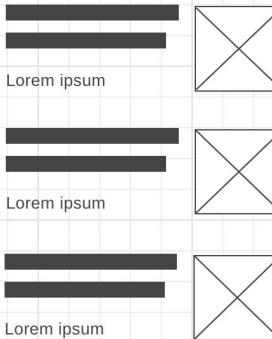
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Subscribe

The Atlantic

Read *The Atlantic's* continuing coverage of Russia's war on Ukraine [here](#).



THE ATLANTIC

The War in Ukraine Is Just Beginning

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

YASMEEN SERHAN

ADVERTISEMENT

This is a Uniquely Perilous Moment

DAVID FRENCH



The Grown-Ups Are Losing It

GEORGE PACKER



Drive Slow for America

JUDITH LEWIS MERNIT



The Pandemic After the Pandemic

KATHERINE J. WU



Sign up for our daily newsletter.

Email address

Sign up



Brittney Griner's Plight Says More About America Than Russia

JEMELE HILL



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

The Things I'm Afraid to Write About

SARAH HEPOLA

Desktop:

The Atlantic homepage

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



Brittney Griner's Plight Says More About America Than Russia

JEMELE HILL



The Things I'm Afraid to Write About

SARAH HEPOLA

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



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

YASMEEN SERHAN

This Is A Uniquely Perilous Moment

DAVID FRENCH



The Grown-Ups Are Losing It

GEORGE PACKER



Drive Slow for America

JUDITH LEWIS MERNIT



The Pandemic After the Pandemic

KATHERINE J. WU



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

Play!

ADVERTISEMENT

Connect with our team in San Francisco to start



'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



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



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.

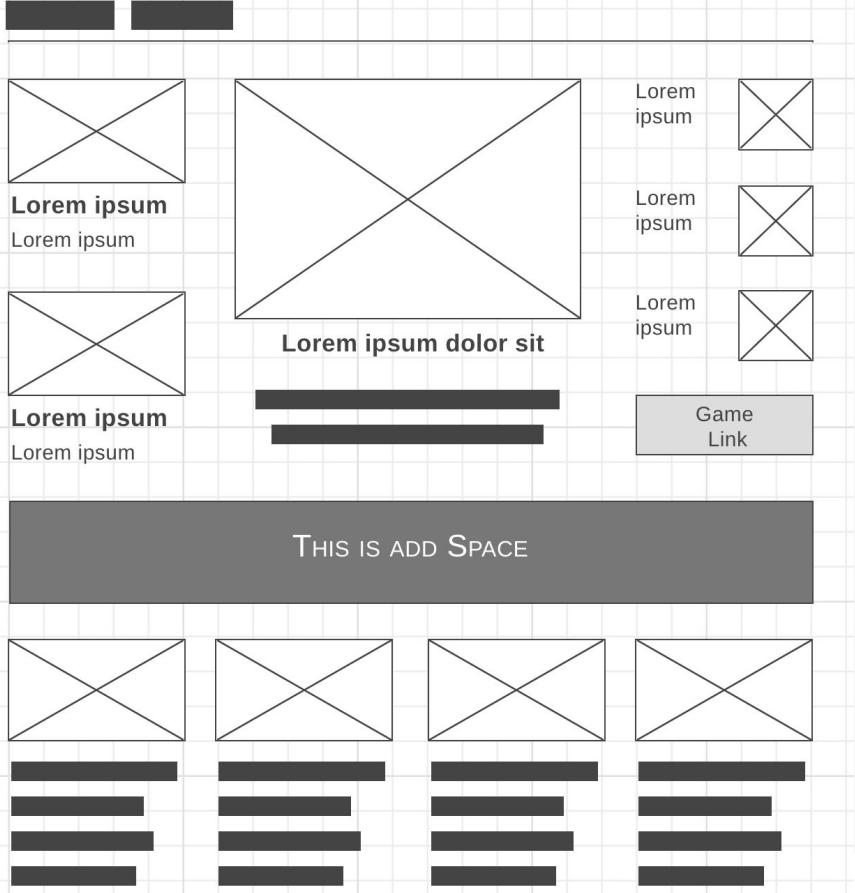
MARCI SHORE



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

DAVID SIMS

Lorem ipsum



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

ADVERTISEMENT

Connect with our team in San Francisco to start


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

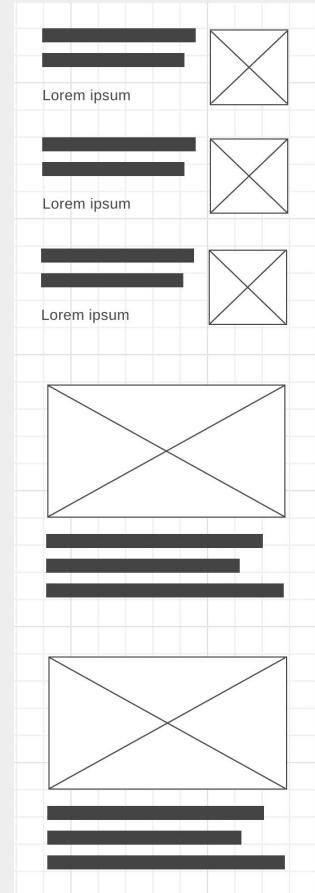
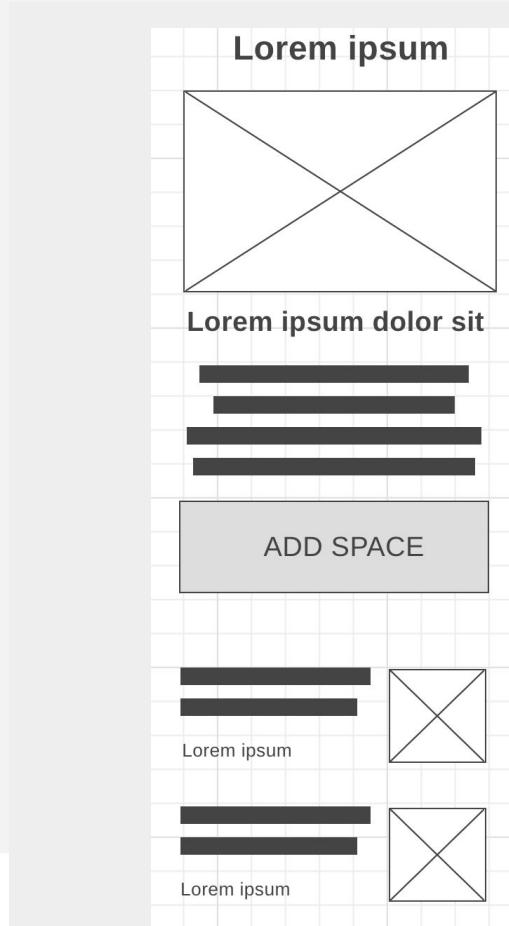
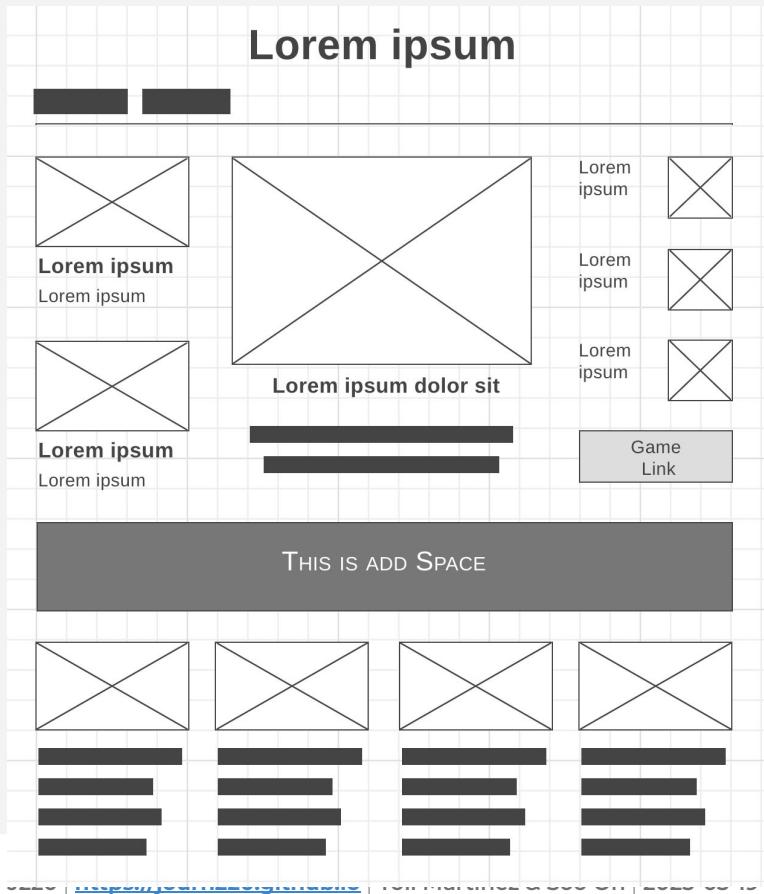

Congressional Republicans Have Found Their Red Line
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ELAINE GODFREY


Nine Books to Read to Understand the War in Ukraine
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MARCIA 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

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

Wireframing: The Atlantic Homepage



Wireframing: KQED Homepage

Mobile

The mobile wireframe shows a top navigation bar with the KQED logo and a "Sign In" button. Below it is a search icon and links for News, Arts & Culture, Podcasts, and Events. A "Live Radio" button with "Radiolab" is also present. The main content area features a large image of three people standing on a football field. Below the image is the headline: "Mayor Breed Appoints 3 SFUSD Parents to Fill School Board Seats Vacated After Historic Recall". A detailed description follows, mentioning the appointment of Ann Hsu, Lainie Motamedi, and Lisa Weissman-Ward to replace Alison Collins, Gabriela López, and Faauuga Moliga. A note indicates they were elected in a citywide recall vote on Feb. 15. The date "Mar 11" is shown at the bottom left. A "LATEST NEWS" section follows, featuring two articles: "Here's How State lawmakers Want to Help Californians Deal With High Gas Prices" and "Phuong Tâm, Sixties Star of Vietnam Surf Rock, Reclaims Her Legacy at 77". Each article includes a thumbnail image and a timestamp.

Desktop

The desktop wireframe features a top navigation bar with the KQED logo, "Sign In", "Live Radio", and "Snap Judgment". Below it are links for News, Arts & Culture, Podcasts, Events, TV, and "Support KQED". The main content area has a "TODAY'S TOP STORY" section with a large image of three people on a football field. The headline is "Mayor Breed Appoints 3 SFUSD Parents to Fill School Board Seats Vacated After Historic Recall". A detailed description follows, mentioning the appointment of Ann Hsu, Lainie Motamedi, and Lisa Weissman-Ward to replace Alison Collins, Gabriela López, and Faauuga Moliga. A note indicates they were elected in a citywide recall vote on Feb. 15. A "LATEST NEWS" section follows, featuring the same two articles as the mobile version. Below the news is a large graphic for a program titled "SOLD OUT: Rethinking Housing in America", with a "LISTEN NOW" button. The page is divided into "Science" and "Arts & Culture" sections, each with several smaller news items and thumbnails. A "More Science" and "More Arts & Culture" button is located at the bottom right.

Mobile:

KQED homepage

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

The KQED homepage features a red header with the station's logo and a "Sign In" button. Below the header is a navigation bar with links for "News", "Arts & Culture", "Podcasts", and "Events". A "Live Radio" button with a play icon is also present. The main content area includes a "TODAY'S TOP STORY" section with a video thumbnail of a woman speaking at a podium outdoors. Below this, a large article title reads "Mayor Breed Appoints 3 SFUSD Parents to Fill School Board Seats Vacated After Historic Recall". Further down, there's a "LATEST NEWS" section with two more 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, a brief description, 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 graphic for a new season of a program. It features the title "SOLD OUT" in large, bold, black letters, with the subtitle "Rethinking Housing in America" and "NEW SEASON" below it. There are images of houses and a colorful mural. A "LISTEN NOW" button and the "KQED" logo are at the bottom.

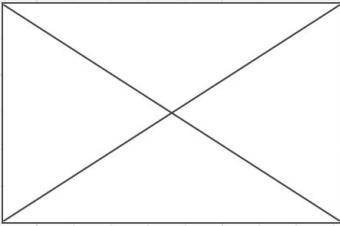
Science

- 
To Understand Sea Level Rise, This Climate Artist Wants You to Feel It in Your Body 
- 
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

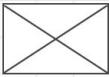


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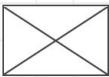


LATEST NEWS

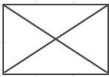
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News Arts & Culture Podcasts Events

Live Radio Radiolab

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 Faaugua 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



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



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



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

LISTEN NOW KQED

Science



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This Climate Artist Wants You
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California Can Once Again Set
Its Own Car Emissions
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TODAY'S TOP STORY

1 **How State Lawmakers Want to Help Californians Deal With High Gas Prices**
6h ago

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20h ago

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

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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 Lopez and Francisca Moliga, who were ousted in a citywide recall vote on Feb. 15.
Mar 11



Science Arts & Culture

To Understand Sea Level Rise, This Climate Artist Wants You to Feel It in Your Body
□

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
□

At the de Young, Alice Neel's Paintings Assert the Dignity of All People
□

Peptoc, a New Hotline Voiced by Healdsburg Kids, Will Brighten Your Day
□

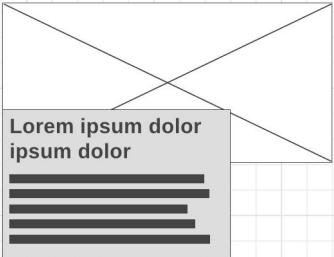
Miss Ollie's Closes: The End of an Era for Oakland's Black and Brown Communities
□

More Science More Arts & Culture

Lorum ipsum



TODAY'S TOP STORY



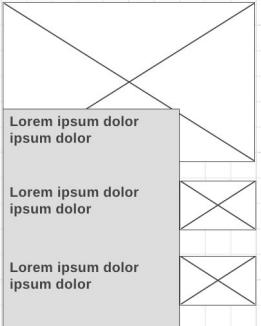
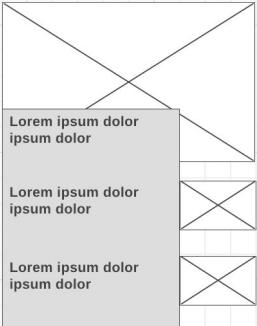
LATEST NEWS

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TODAY'S TOP STORY



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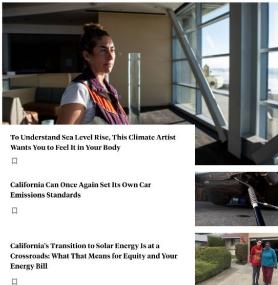
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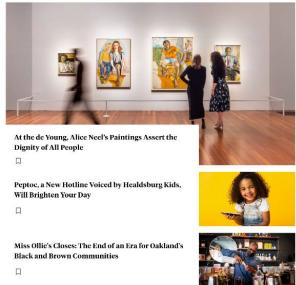
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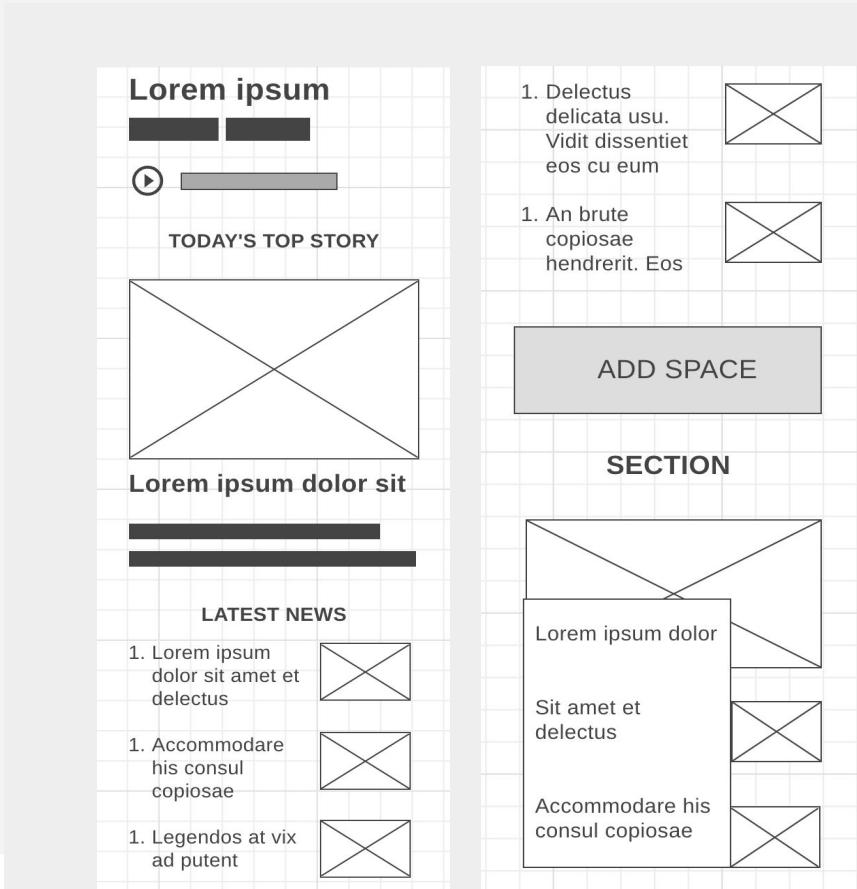
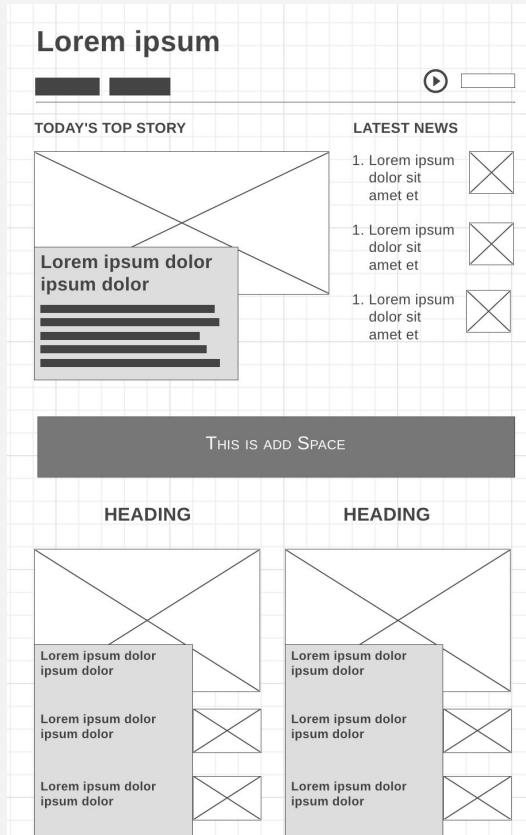
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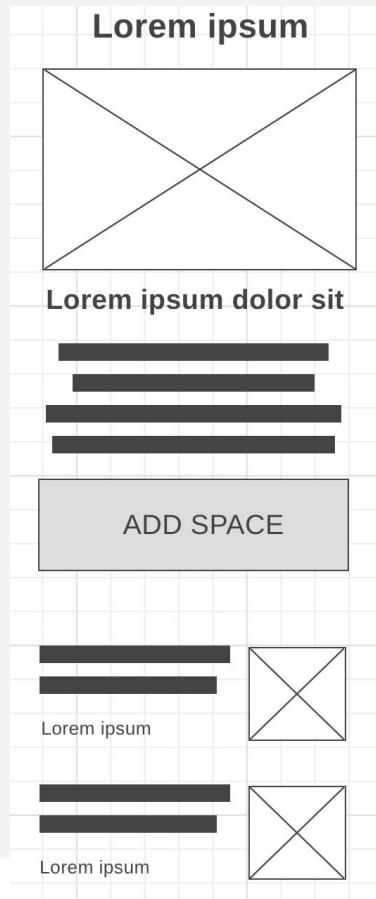
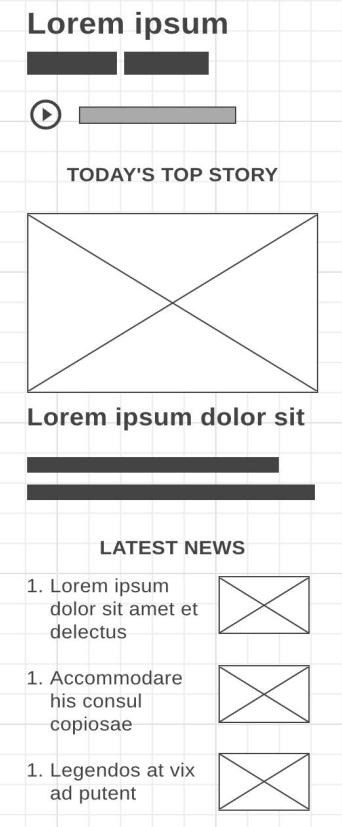
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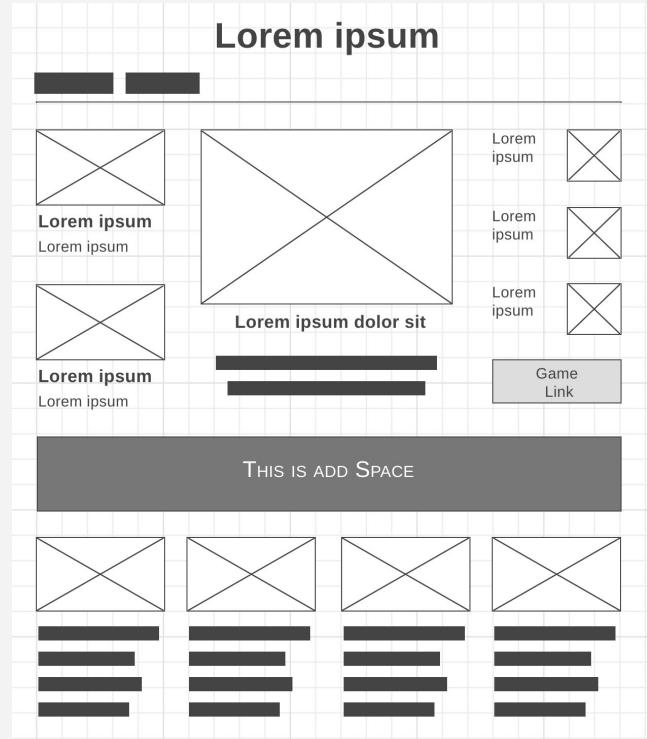
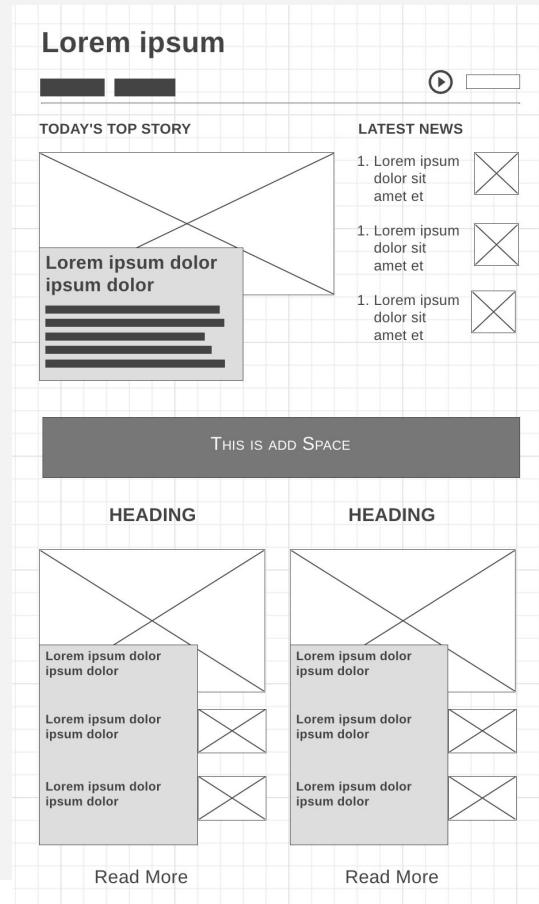
Wireframing: KQED Homepage



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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Start the presentation to see live content. For screen share software, share the entire screen. Get help at pollev.com/app

Homework

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