Do _____ Better With Flexbox

CSS Is Annoying.

Floats

Equal Heights

Vertical Centering

Source Order

Magic Numbers

Filling Extra Space

Flexbox?

A better way to lay out, align and distribute space among elements that can have unknown or dynamic sizes.

Can We Use Flexbox Today?

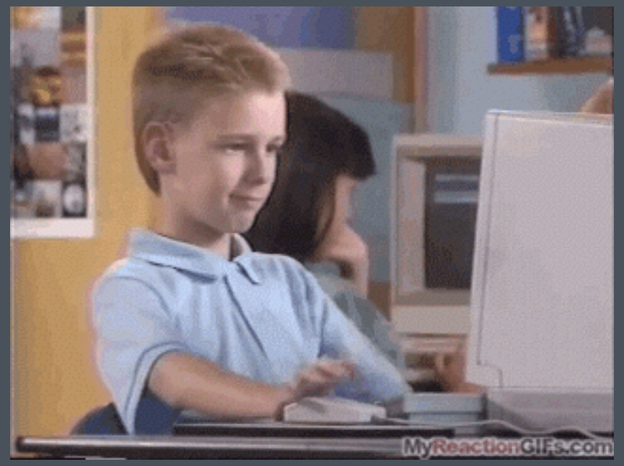
border-radius **89.71%**	viewport units **78.47%**
linear-gradient **89.12%**	transform **89.66%**
background-size **94.59%**	box-shadow **89.66%**

Data from caniuse.com

Can We Use Flexbox Today?

flexbox

94.1%*



Data from caniuse.com

94.1%*

- Syntax has changed a bunch since first introduced
- Different implementations depending on browser & version

Make your life easy – Use Autoprefixer.

Fallbacks & Feature Detection

- Write floats/display first, then flex
- Use modernizr or a custom detection script
- @supports

```
@supports(display: flex) {
  form {
    display: flex;
  }
}
```

Real World Examples

Centering

Blog Posts List

Input Groups

Pinned Items

Let’s Center Something.

Complete Guide to Centering in CSS exists to help you determine what centering technique to use

WE SHOULD NOT NEED A FLOW CHART TO CENTER SOMETHING

Let’s Center Something.

Write down your total income.

This is your total take-home (after tax) pay for both you and, if you’re married, your spouse. Don’t forget to include everything—full-time jobs, second jobs, freelance pay, Social Security checks, royalties from your chihuahua’s acting gig, and any other ongoing source of income."

List all your expenses.

Think about your regular bills (mortgage, electricity, etc.) and your irregular bills (quarterly payments like insurance or HOA) that are due for the upcoming month. After that, total your other costs, like food, gas, food, entertainment, food, and anything else that comes to mind (like food). Every dollar you spend should be accounted for."

Write down your total income.

This is your total take-home (after tax) pay for both you and, if you’re married, your spouse. Don’t forget to include everything—full-time jobs, second jobs, freelance pay, Social Security checks, royalties from your chihuahua’s acting gig, and any other ongoing source of income."

codepen.io/damonbauer/pen/MyGGMd

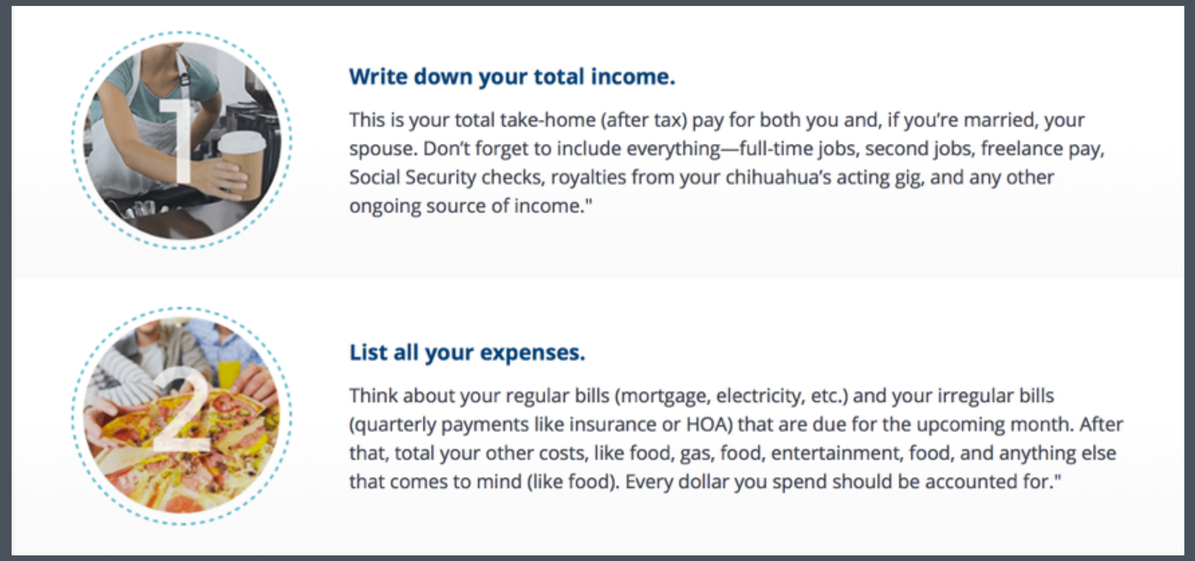
Let’s Center Something.

```
1 <div class="Media">
2    <img src="..." class="Media-image">
3
4    <div class="Media-body">
5      <h3>Write down your total income.</h3>
6      <p>This is your total take-home (after tax) pay for...</p>
7    </div>
8  </div>
```

codepen.io/damonbauer/pen/MyGGMd

Let’s Center Something.

```
.Media {
  display: table;
}
.Media {
  display: flex;
  align-items: center;
}

.Media-body {
  padding-left: 2em;
}
  width: 100%;
  padding-left: 2em;
}
```



codepen.io/damonbauer/pen/MyGGMd

Let’s Center Something.

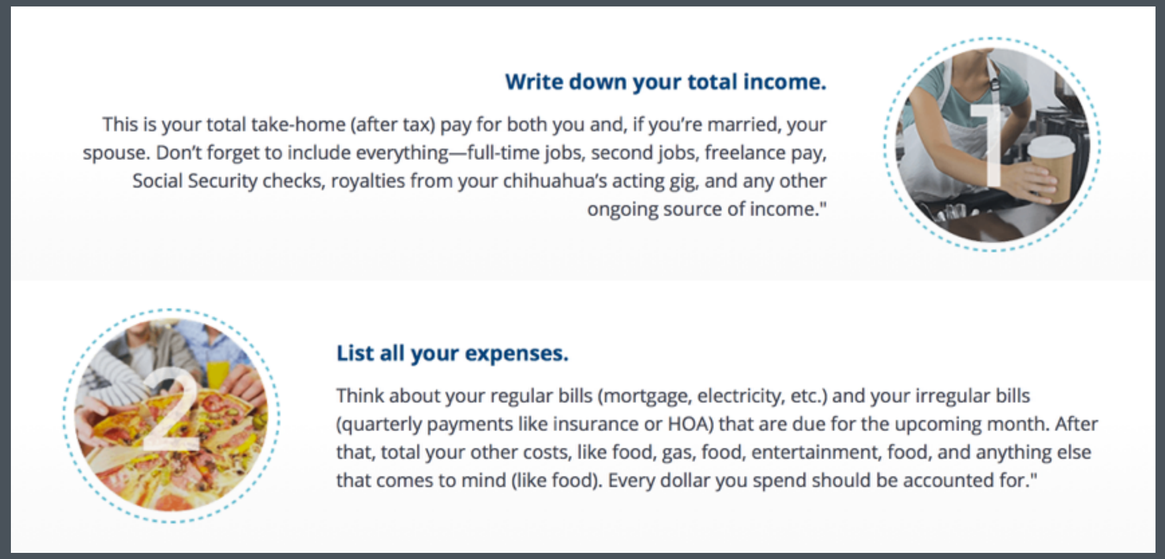
```
.Media {
  display: table;
}

.Media-image,
.Media-body {
  display: table-cell;
  vertical-align: middle;
}

.Media-body {
  width: 100%;
  padding-left: 2em;
}
```

```
.Media {
  display: flex;
  align-items: center;
}

.Media-body {
  padding-left: 2em;
}
```

codepen.io/damonbauer/pen/MyGGMd

Let’s Center Something.

```
.Media {
  display: flex;
  align-items: center;
}

.Media--reversed {
  flex-direction: row-reverse;

  .Media-body {
    padding-left: 0;
    padding-right: 2em;
  }
}

.Media-body {
  padding-left: 2em;
}
```



codepen.io/damonbauer/pen/MyGGMd

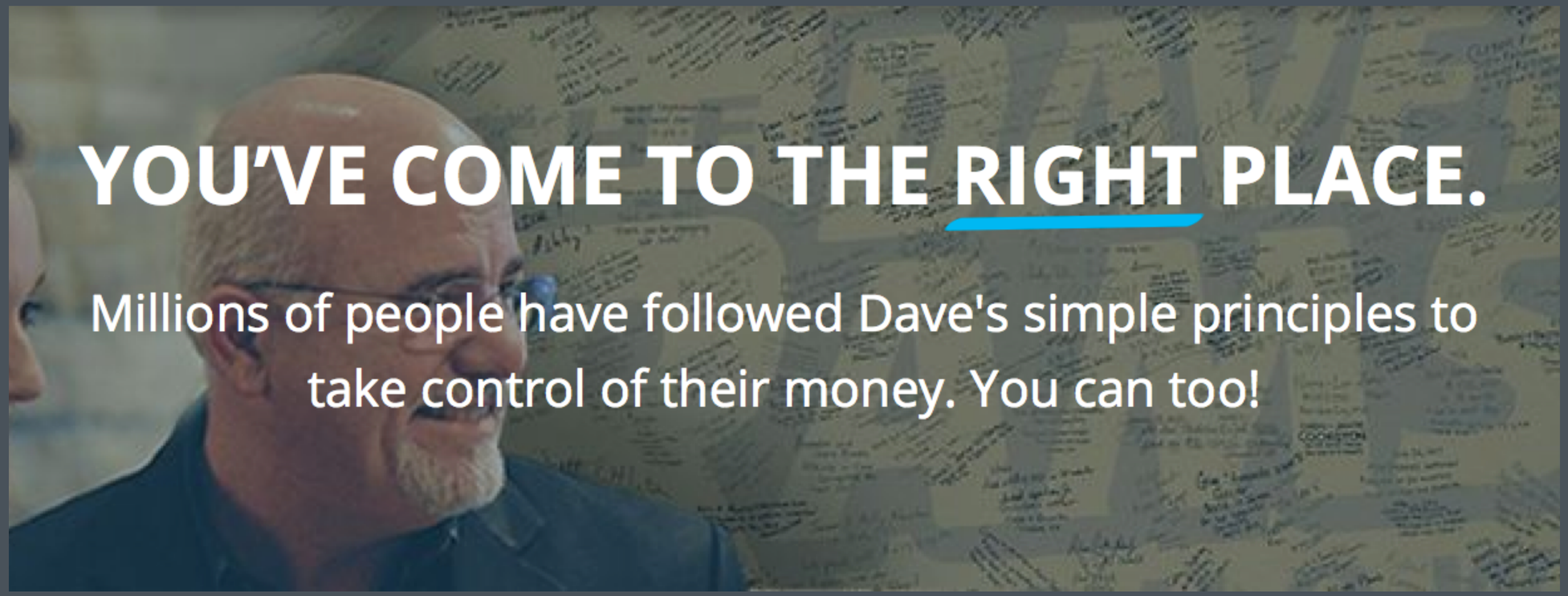
Let’s Center Something.

```
1  .Media {
2    display: table;
3  }
4
5  .Media-image,
6  .Media-body {
7    display: table-cell;
8    vertical-align: middle;
9  }
10
11 .Media-body {
12   width: 100%;
13   padding-left: 2em;
14 }
```

```
1  .Media {
2    display: flex;
3    align-items: center;
4  }
5
6  .Media--reversed {
7    flex-direction: row-reverse;
8
9    .Media-body {
10     padding-left: 0;
11     padding-right: 2em;
12   }
13 }
14
15 .Media-body {
16   padding-left: 2em;
17 }
```

codepen.io/damonbauer/pen/MyGGMd

Let’s Center Something Else.



Let’s Center Something Else.

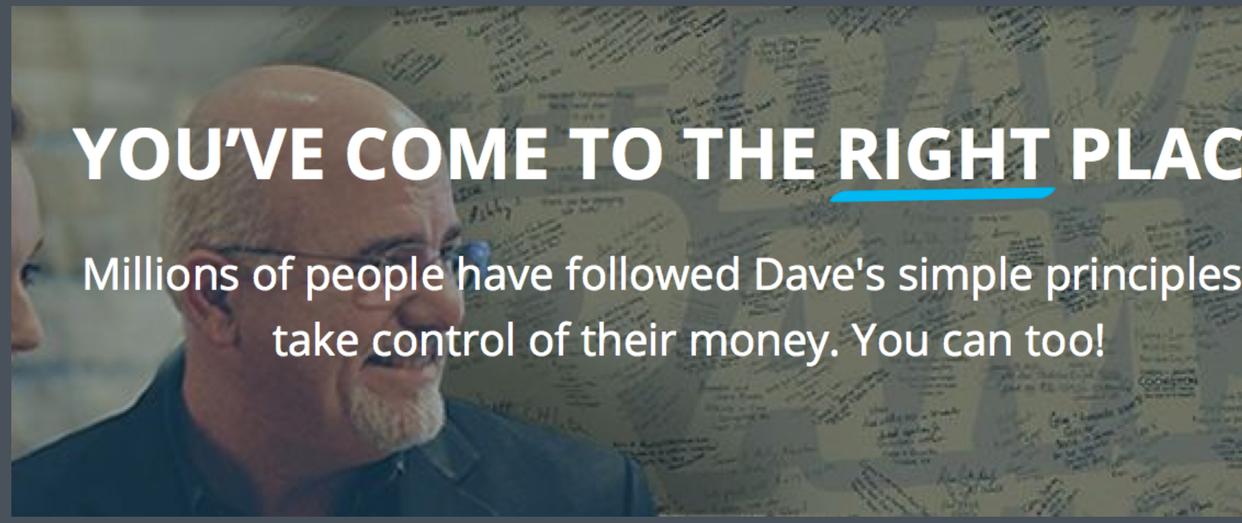
```
<header class="Hero">
  <div class="Hero-content">
    <h1>You’ve Come To The Right Place.</h1>
    <p>Millions of people have followed Dave's simple pri...</p>
  </div>
</header>
```

Let’s Center Something Else.

```
1  .Hero {
2    position: relative;
3    min-height: 200px;
```

```
1  .Hero {
2    display: flex;
3    align-content: center;
4    justify-content: center;
5  }
```

```
9    left: 50%;
10   transform: translate(-50%, -50%);
11 }
```

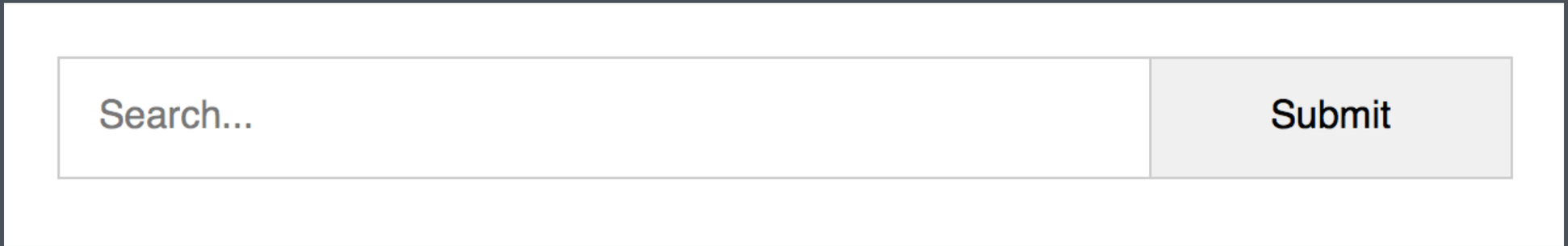


Let’s Center Something Else.

```
.Hero {
  position: relative;
  min-height: 200px;
}

.Hero-content {
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
}
```

```
.Hero {
  display: flex;
  align-content: center;
  justify-content: center;
}
```

Flexible Input Groups



codepen.io/damonbauer/pen/XdqqZw

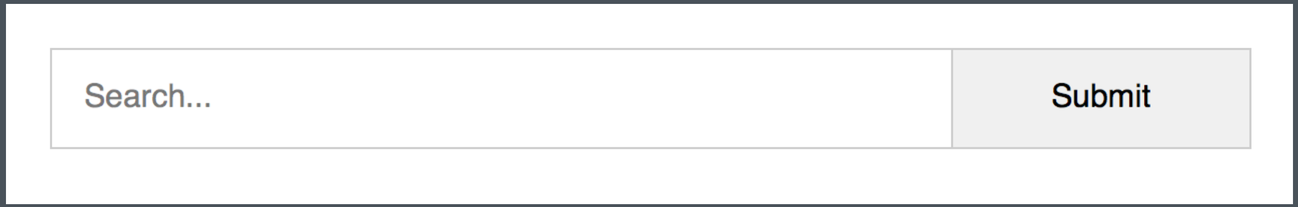
Flexible Input Groups

```
1 <form>
2   <input type="search" placeholder="Search..." />
3   <input type="submit" value="Submit" />
4 </form>
```

Flexible Input Groups

```
1  form {
2    &:after {
3      clear: both;
4      display: table;
```

```
1  form {
2    display: flex;
3  }
4
5  input[type="search"] {
6    flex: 1;
7  }
12 }
13
14 input[type="search"] {
15   width: 80%;
16 }
```

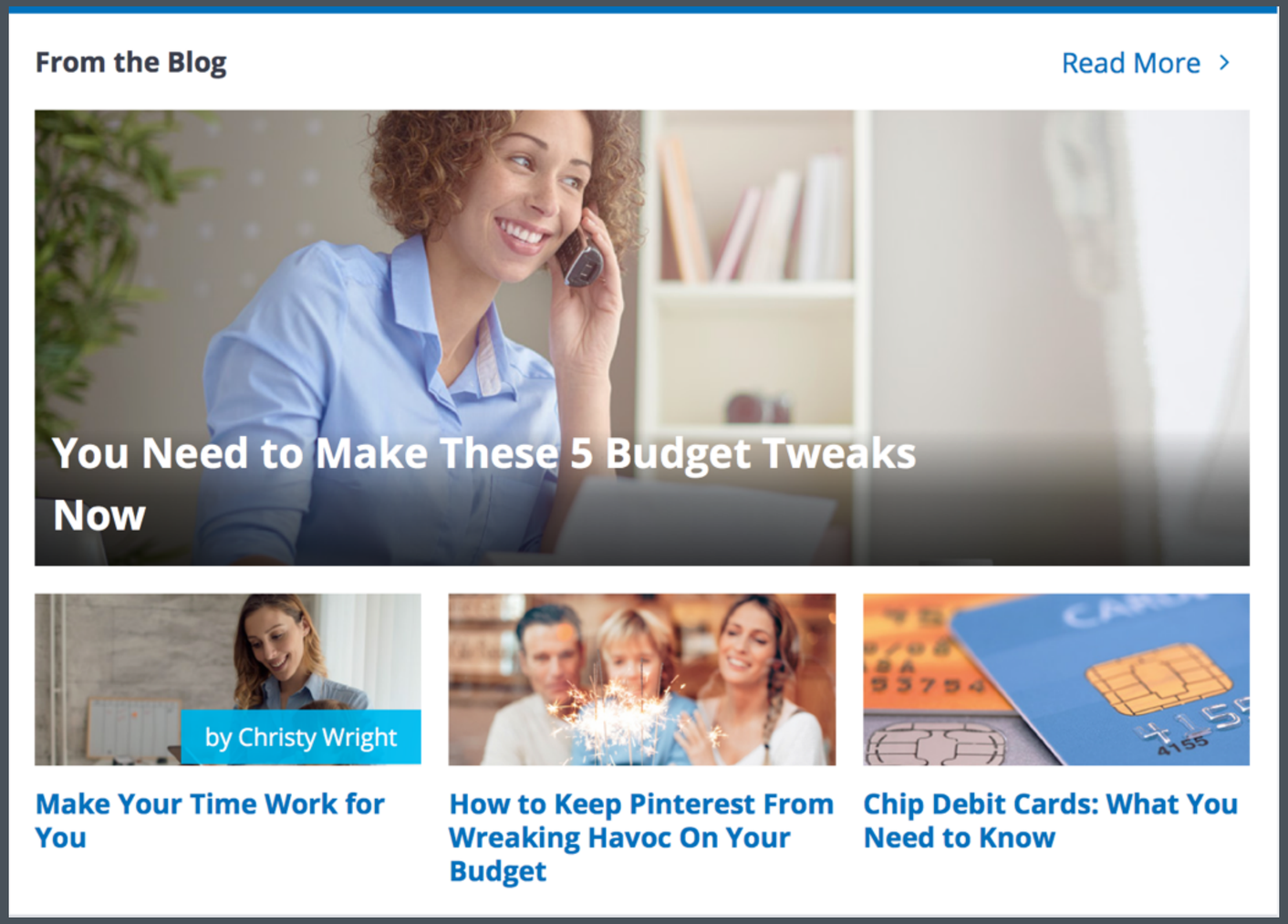


Flexible Input Groups

```
form {
  &:after {
    clear: both;
    display: table;
    content: "";
  }
}

input[type="search"],
input[type="submit"] {
  float: left;
}

input[type="search"] {
  width: 80%;
}
```

```
form {
  display: flex;
}

input[type="search"] {
  flex: 1;
}
```

Latest Blog Posts Card



codepen.io/damonbauer/pen/qZYByw

Latest Blog Posts Card

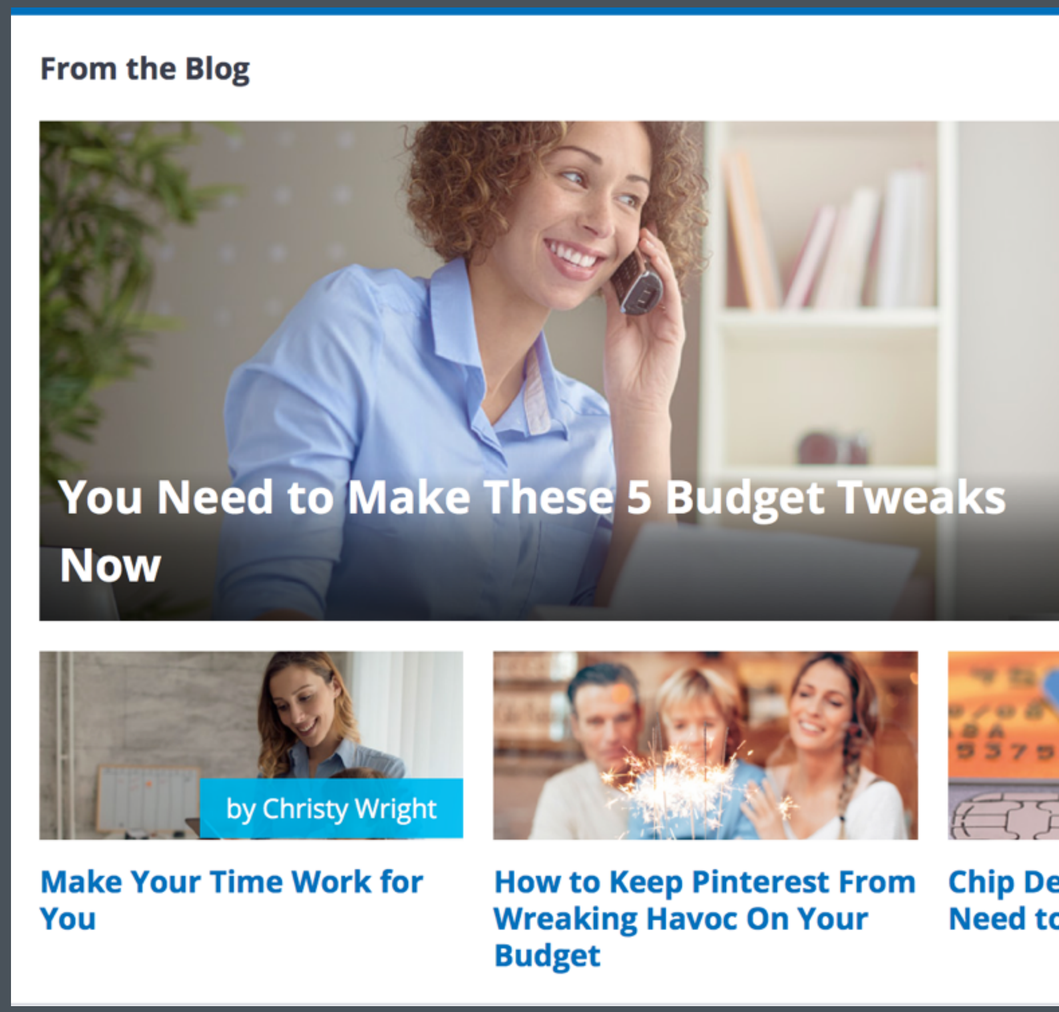
```html
<div class="Parent">
  <div class="Child">
    <img src="...">
    <h3>Featured Child Title</h3>
  </div>
  <div class="Child">
    <img src="...">
    <h3>Child Title</h3>
    <p>Lorem ipsum dolor sit amet...</p>
  </div>
  <div class="Child">
    <img src="...">
    <h3>Child Title</h3>
    <p>Lorem ipsum dolor sit amet...</p>
  </div>
  <div class="Child">
    <img src="...">
    <h3>Child Title</h3>
    <p>Lorem ipsum dolor sit amet...</p>
  </div>
</div>
```

codepen.io/damonbauer/pen/qZYByw

Latest Blog Posts Card

```
.Parent {
  &:after {
    content: "";
    display: table;
    clear: both;
```

```
.Parent {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-between;
}

.Child {
  flex: 0 1 32%;

  &:first-child {
    flex: 100%;
  }
}
  &:last-child {
    margin-right: 0;
  }
}
```



codepen.io/damonbauer/pen/qZYByw

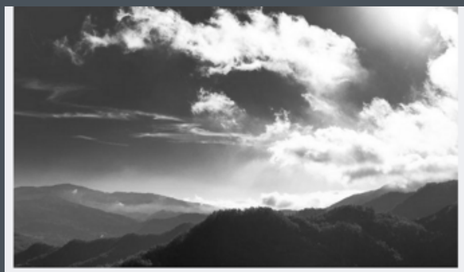
Latest Blog Posts Card

```
.Parent {
  &:after {
    content: "";
    display: table;
    clear: both;
  }
}

.Child {
  float: left;
  width: 31%;
  margin-right: 3.5%;

  &:first-child {
    width: 100%;
    margin-right: 0;
  }

  &:last-child {
    margin-right: 0;
  }
}
```

```
.Parent {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-between;
}

.Child {
  flex: 0 1 32%;

  &:first-child {
    flex: 100%;
  }
}
```

codepen.io/damonbauer/pen/qZYByw

Equal Heights & “Pinned” Items



This Is a Title

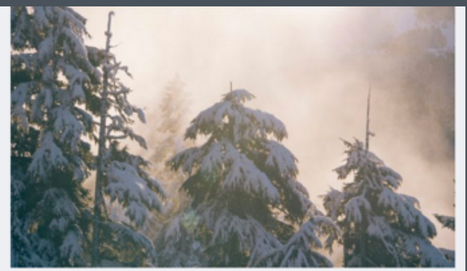
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Rerum debitis **nisi quae temporibus**.

Button

This Is a Title

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Quo consequatur optio qui illo tenetur pariatur est! **Voluptates magni in hic est**, beatae rem.

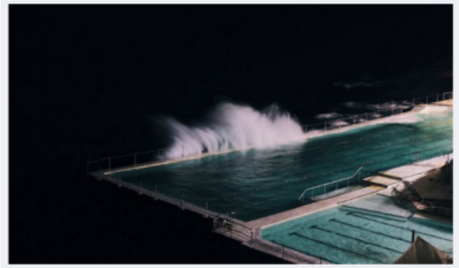
Button



This Is a Title

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Rerum debitis **nisi quae temporibus** accusantium eum adipisci dicta iure labore *esse libero* dicta iure labore *esse libero.*

Button



This Is a Title

Lorem ipsum dolor sit amet,

This Is a Title

Lorem ipsum dolor sit amet,

This Is a Title

Lorem ipsum dolor sit amet,

Equal Heights & “Pinned” Items

5 Budgeting Myths You May Be Falling For

The worst part about the budget isn’t that it’s difficult (because it’s not). The worst part is all the misunderstanding and myths

Read More

Guilt-Free Spending: The Secret to a Liveable Budget

How does an indulgence allowance sound? You know, a little guilt-free spending that doesn’t find its way to creditors

Read More

5 Ways to Simplify Your Budget

“Budgeting is too difficult!” That’s one of the most common reasons why many people don’t budget. They either don’t

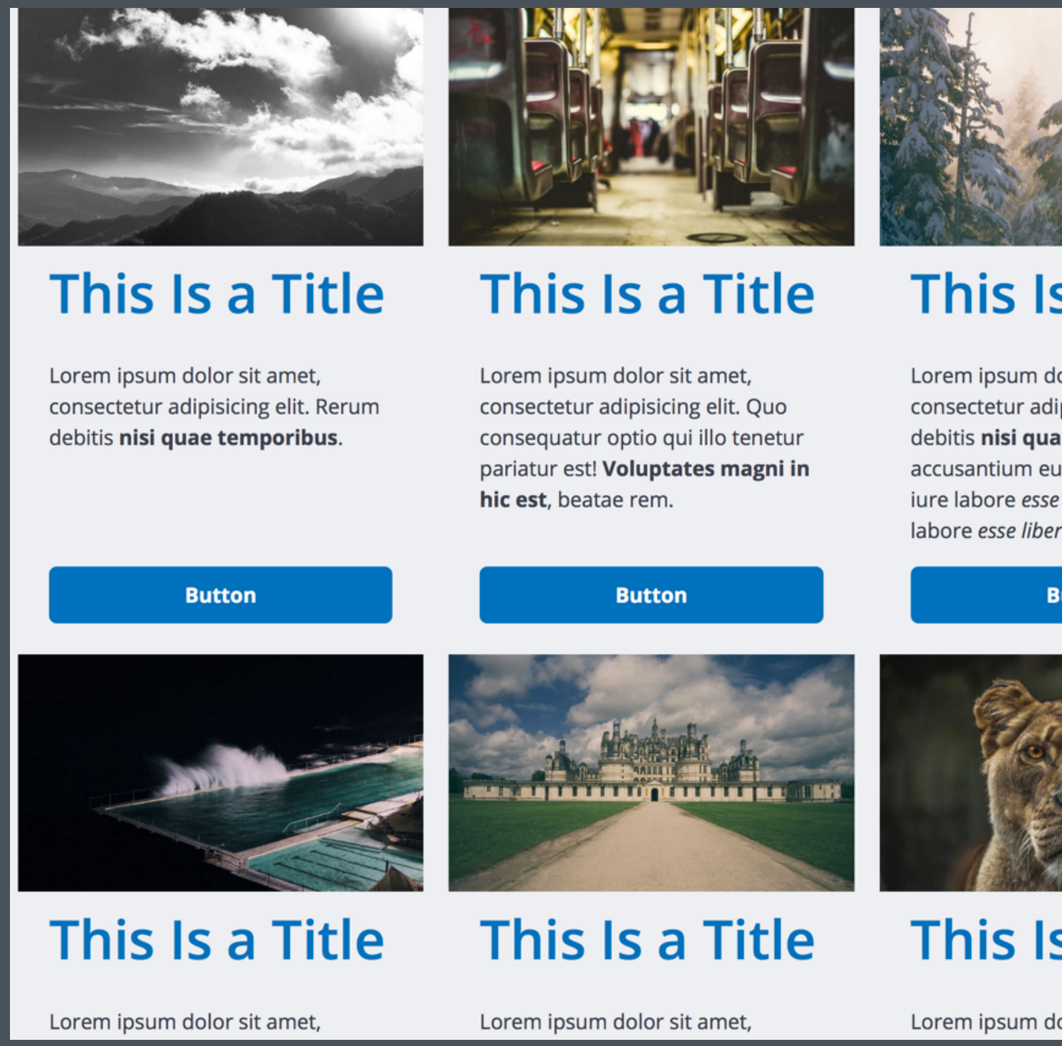
Read More

Equal Heights & “Pinned” Items

```html
<div class="CardGroup">
  <div class="Card">
    <img class="Card-image" src="...">
    <h3 class="Card-title">This Is a Title</h3>
    <p class="Card-lede">Lorem ipsum dolor sit amet...</p>
    <a href="#" class="Card-cta Button">Button</a>
  </div>
  ...
</div>
```

Equal Heights & “Pinned” Items

```
.CardGroup {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-between;

  .Card {
    display: flex;
    flex-direction: column;
    flex: 0 1 32%;
  }

  .Card-cta {
    margin-top: auto;
  }
}
```



Equal Heights & “Pinned” Items

```
.CardGroup {
  display: table;

  .Card {
    position: relative;
    display: table-cell;
    width: 32%;
    padding-bottom: 2em;
  }

  .Card-cta {
    position: absolute;
    bottom: 0;
  }
}
```

```
.CardGroup {
  display: flex;
  flex-wrap: wrap;
  justify-content: space-between;

  .Card {
    display: flex;
    flex-direction: column;
    flex: 0 1 32%;
  }

  .Card-cta {
    margin-top: auto;
  }
}
```

Resources

- A Complete Guide to Flexbox
- What the Flexbox!?
- Solved By Flexbox
- Flexbox Playground

Full List - Suggest Additions!

Thanks!

Questions or Comments?