LAYOUTS: MORE ON CSS

TODAY

- CSS Flex and Grid
- Example walkthroughs
- Break
- Work time: Activity 3

FLEX AND GRID

Generally, flex for content and grid for layout

- `display: flex` - 1D positioning of children
- `display: grid` - 2D positioning of children

FLEX

Define a flexbox with `display: flex` on the parent

```css
.parent {
  display: flex;
}
```

Codepen demo!

FLEX IS HIGHLY CONFIGRUABLE

- `align-items`: aligning along the *cross* axis
- `justify-content`: alignment along the *main* axis
- `direction`: row, column, row-reverse, column-reverse
- `wrap`: nowrap, wrap, wrap-reverse

Codepen demo!

FLEX GROW/SHRINK/BASIS

- `flex-grow`: if an item is allowed to grow relative to its siblings
- `flex-shrink`: if an item is allowed to shrink relative to its siblings
- `flex-basis`: the size it is trying to be
- `flex`: a short way of defining all three (grow, shrink, basis)

Codepen demo!

GRID

```css
.parent {
  display: grid;
}
```

By default - this won't do anything! We need to specify how to layout our grid.

GRID TEMPLATE

```css
.parent {
  display: grid;
  grid-template-columns: 60px 60px;
}
```

Organize our elements into two 60px-wide columns

GRID TEMPLATE

```css
.parent {
  display: grid;
  grid-template-columns: 1fr 2fr;
}
```

Organize our elements into two columns, and column 2 will always be 2 times wide as column one.

GRID: AUTOFIT

The best one!!!

```css
.parent {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(15rem, 1fr));
}
```

The grid will now automatically choose the number of columns, and size the items appropriately

BREAK!

P5 SKETCHES

- Working in the P5 editor is great - but you will need to host your sketches on your portfolio site in your gallery!
- the demo site has examples!

WORK TIME

Activity 3: Layouts is to help you build a gallery page for your P5 sketches