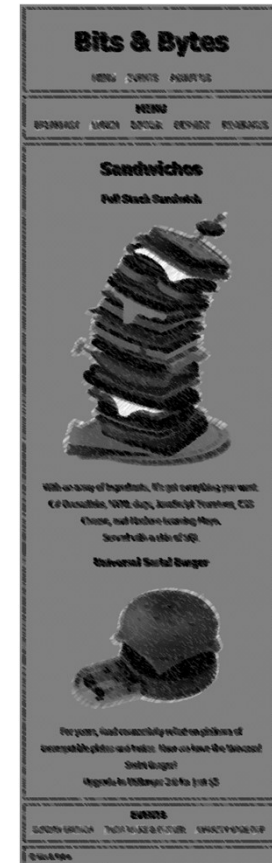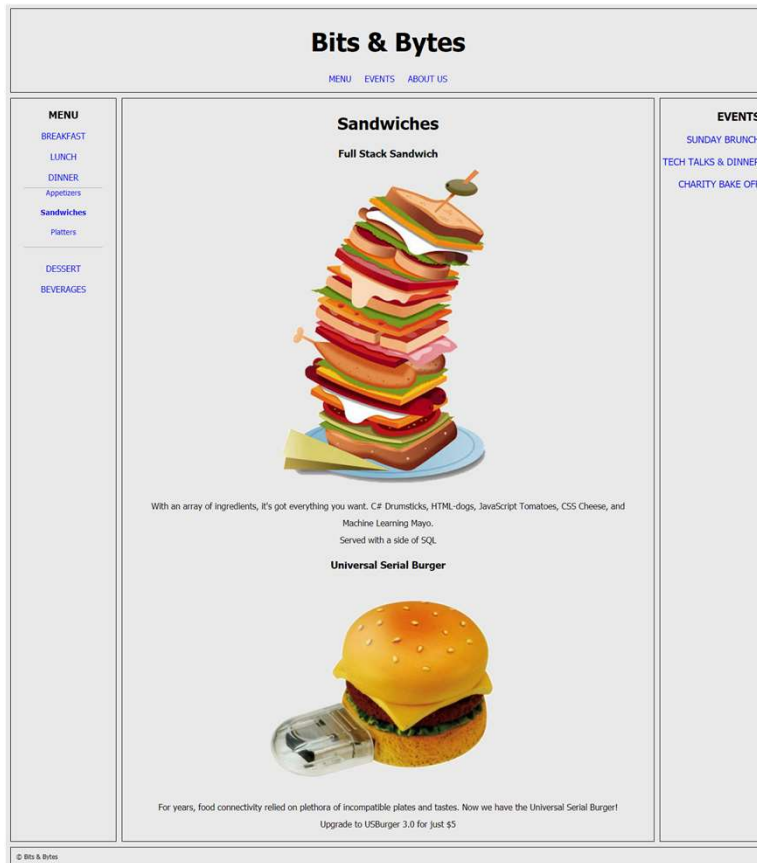MODULE 4

CSS Layouts with Grid

Yesterday

- What does HTML stand for?

- How is HTML organized?

- What does CSS stand for?

- What is a selector?

- What are some selectors?

- What is the difference between block and inline?
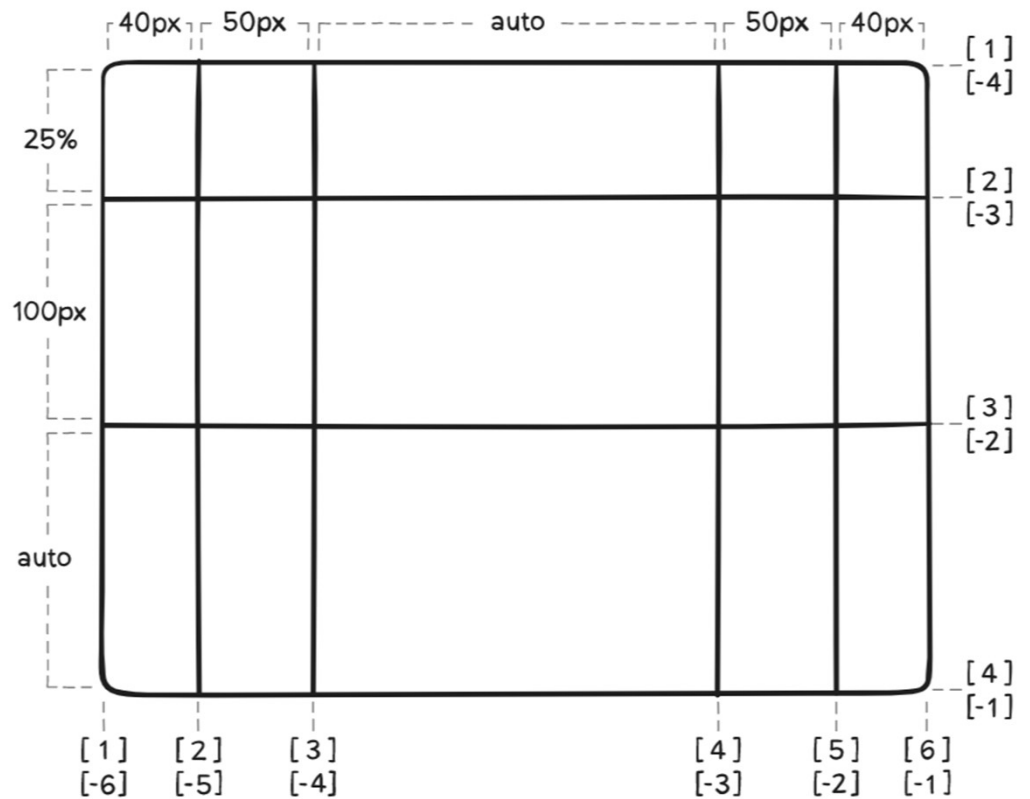
He's lost it...

Modern Layout

CSS Grid Layout

- A two-dimensional grid-based layout system

grid-template-columns

- Lets you define the size of the columns of your grid
- Grid lines are defined as fractional units (fr)

- grid-template-columns: 1fr 2fr 4fr 1fr;

grid-template-areas

- Names for different sections

grid-template-columns: 1fr 1fr 1fr 1fr;
grid-template-areas:
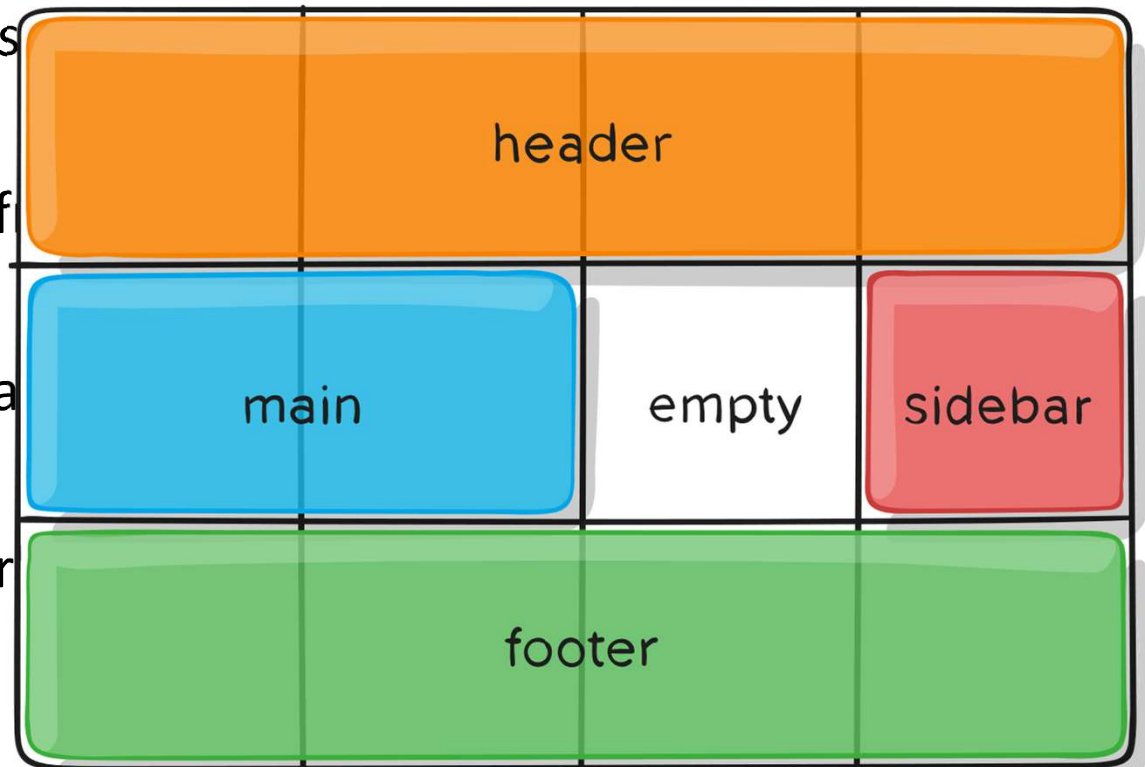   "header header header header"
   "main main . sidebar"
   "footer footer footer footer";

grid-template-columns: 1fr 1fr

grid-template-areas:

   "header header header hea

   "main main . sidebar"

   "footer footer footer footer

grid-area

- Where a certain element will go in the grid
- The names will match the names that were defined in that element's grid-template-areas

```
.container {
  grid-template-columns: 4fr 1fr 2fr;
  grid-template-areas:
    "header header header"
    "main   .      sidebar"
    "footer footer footer";
}

.item-a {
  grid-area: header;
}
.item-b {
  grid-area: main;
}
.item-c {
  grid-area: sidebar;
}
.item-d {
  grid-area: footer;
}
```
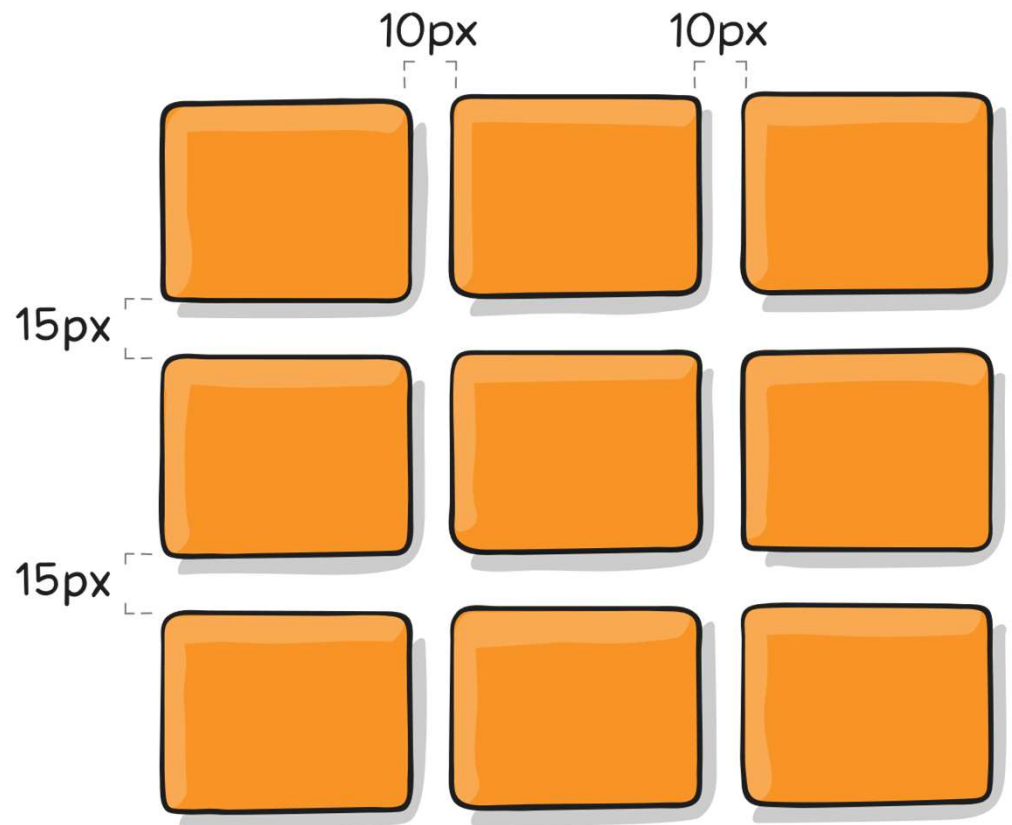
Height

- Set the height of the grid in units of vh
- vh is **v**iewport **h**eight
- Each vh is 1% of the viewport height
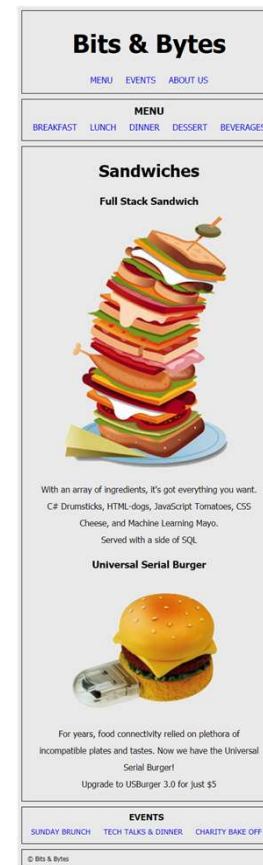- **height: 100vh** is 100% of the viewport height

grid-gap

- The space between the grid cells

```
.container {
  grid-template-columns: 1fr 1fr 1fr;
  grid-column-gap: 10px;
  grid-row-gap: 15px;
}
```

Modern Layout

What's the difference?

Media Queries

- "Queries" you add to css that change layout
- @media then you query
- Media queries can be used to check many things, such as:
  - width and height of the viewport
  - width and height of the device
  - orientation (is the tablet/phone in landscape or portrait mode?)
  - resolution

Media Queries

```
@media not|only mediatype and (mediafeature and|or|not mediafeature) {
   CSS-Code;
}
```
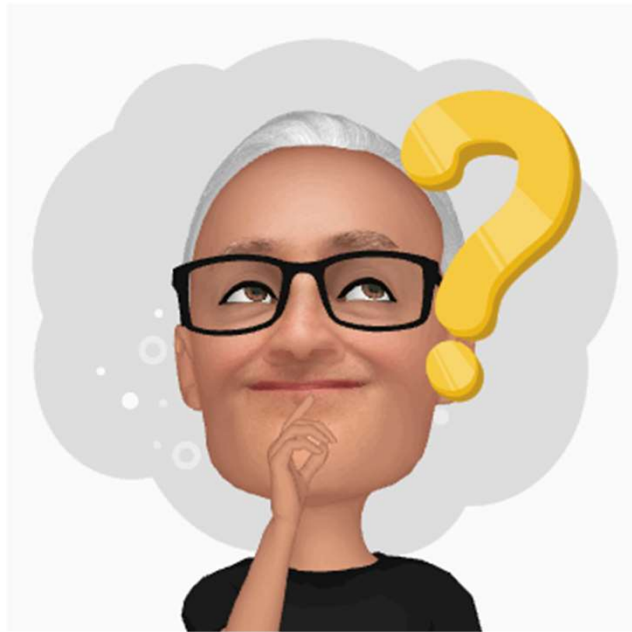
Example:

```
body {
   background-color: lightblue;
}

@media screen and (min-width: 400px) {
   body {
      background-color: lightgreen;
   }
}
```

LET'S CODE!

ELEVATE A YOURSELF

WHAT QUESTIONS DO YOU HAVE?

Reading for tonight:
CSS Flexbox