

## MODULE 3

# CSS Layouts with Grid and Flexbox

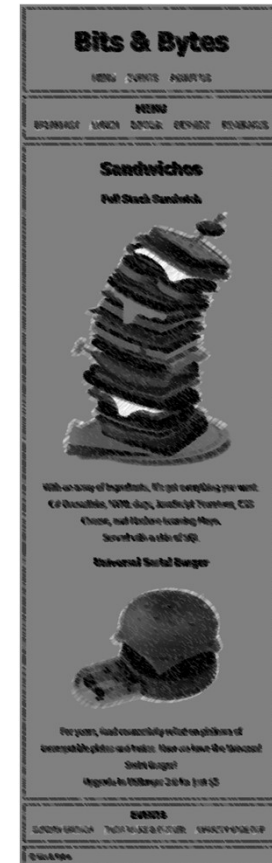
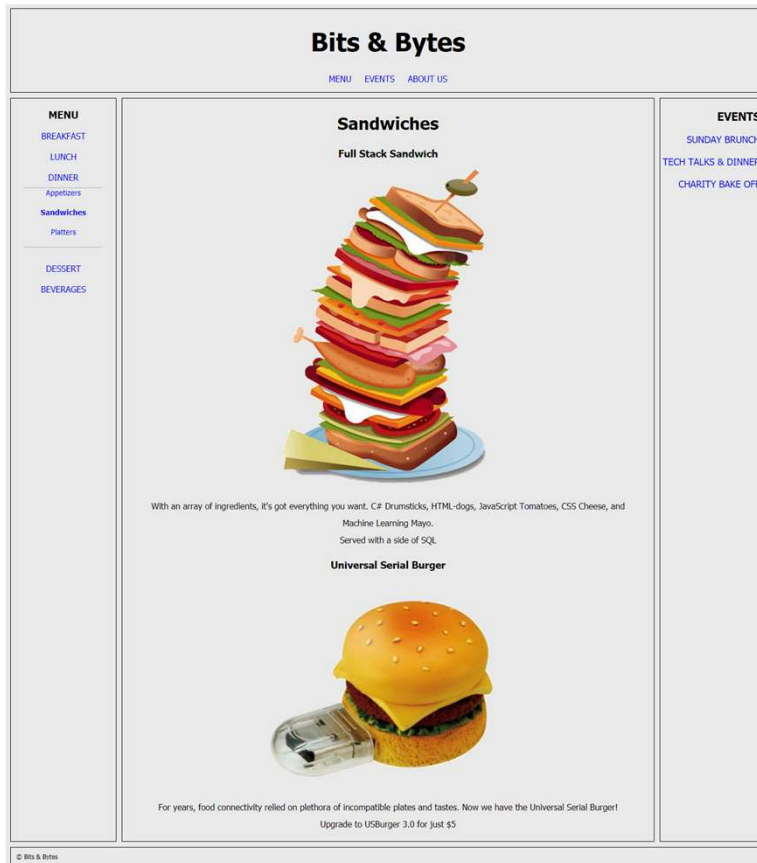




## Yesterday

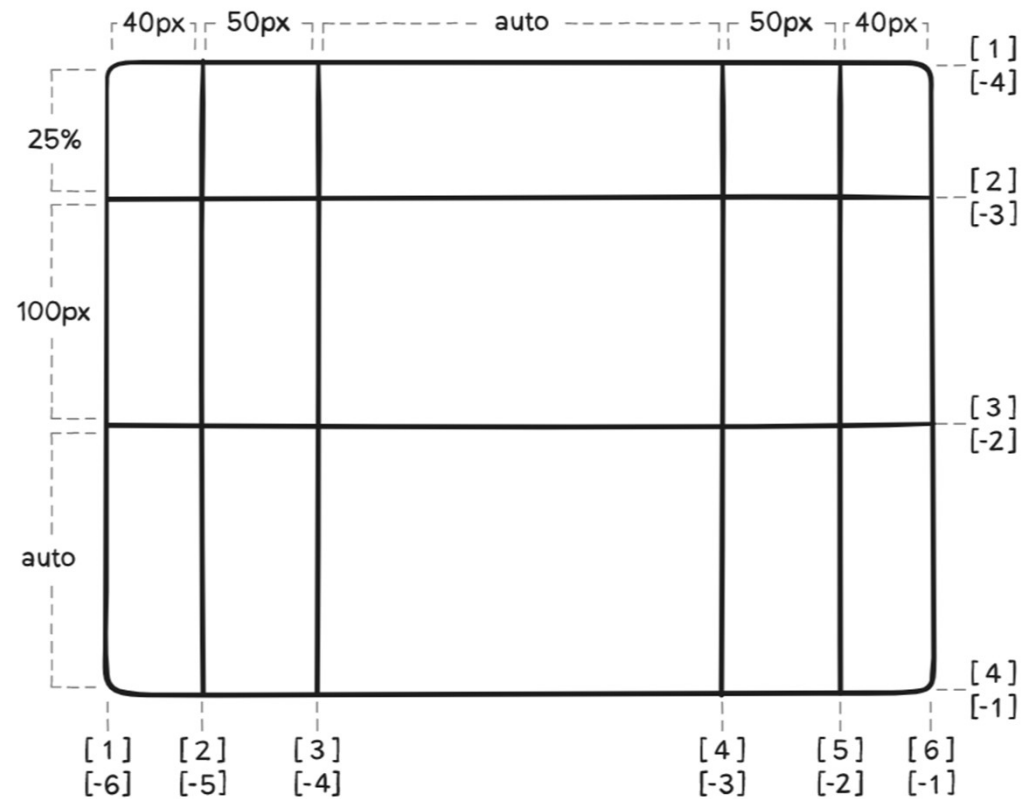
- What does HTML stand for?
- How is HTML organized?
- What does CSS stand for?
- What is a selector?
- What are some selectors?
- What is the difference between block and inline?

# 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
```

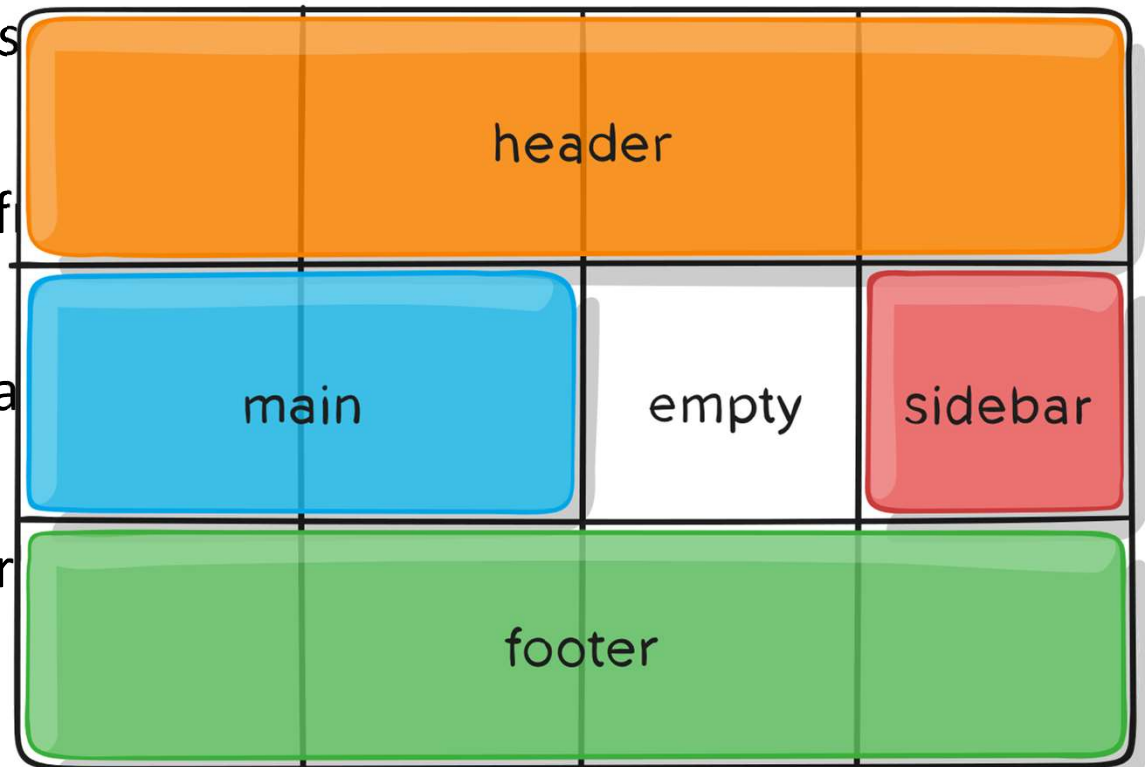
```
"footer footer footer footer";
```

```
grid-template-areas:
```

```
"header header header header"
```

```
"main main . sidebar"
```

```
"footer footer footer footer"
```



# grid-area

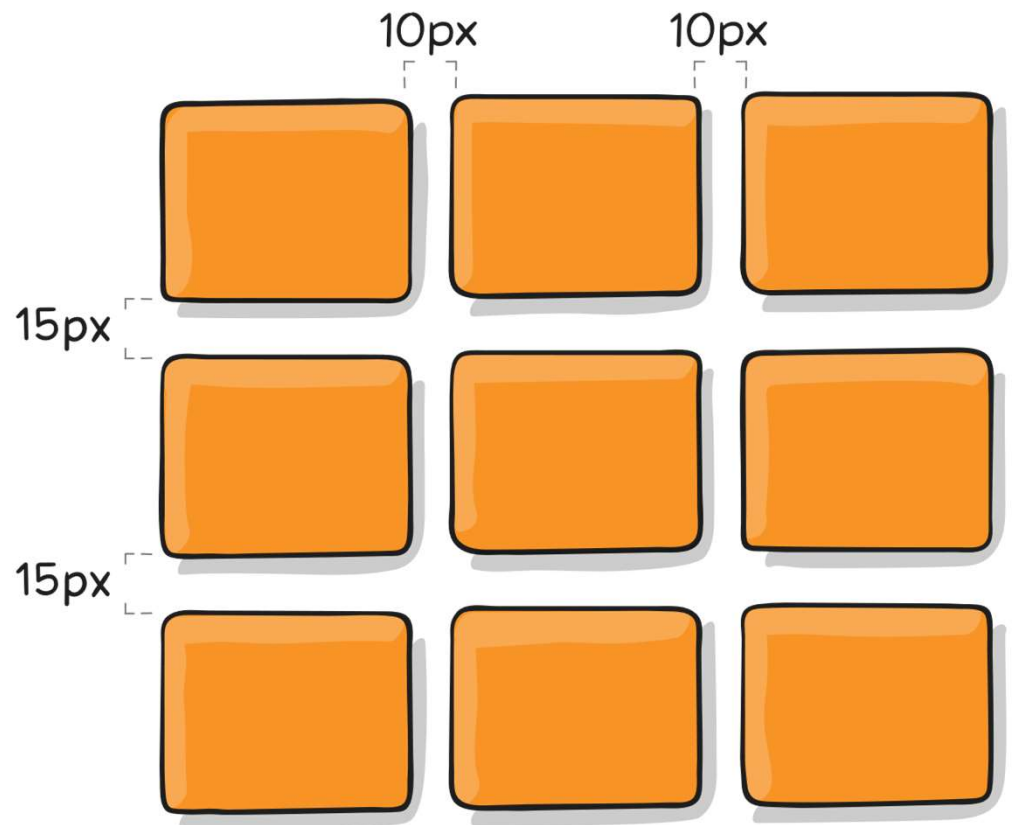
- Where a certain element will go in the grid
- The names will match the names that were defined in that element's grid-template-areas

```
.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;  
}
```

# grid-gap

- The space between the grid cells

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



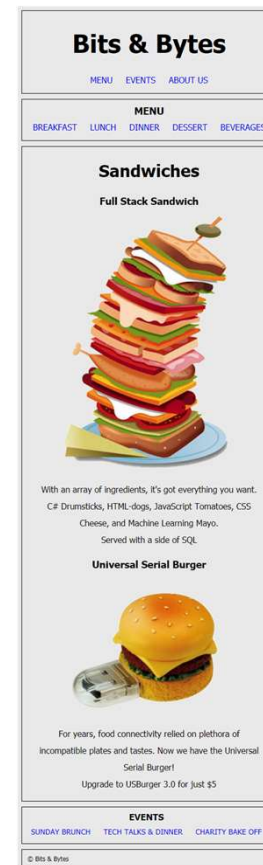


# LET'S CODE!



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# 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!



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WHAT QUESTIONS DO  
YOU HAVE?



# Reading for tonight:

## **CSS Flexbox**

