



# \_nology

TALENT IN **TECH**NICOLOUR

## CSS Grid

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# Learning Objectives

- What is responsive design and how can we implement it?
- What is CSS grid and how can we use it to create a responsive design?
- What are responsive measurements and how can we use them in responsive design?

# Why be responsive?

Desktop

Landscape

4k

android

iPad

Portrait



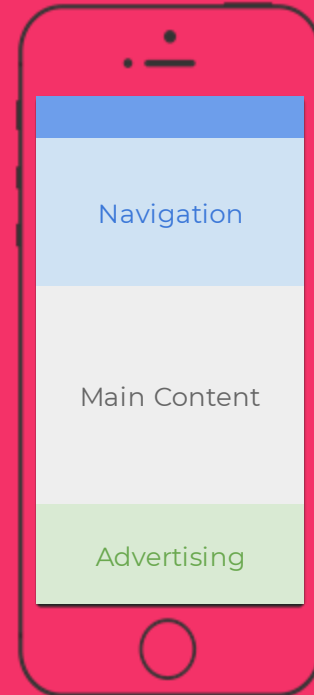
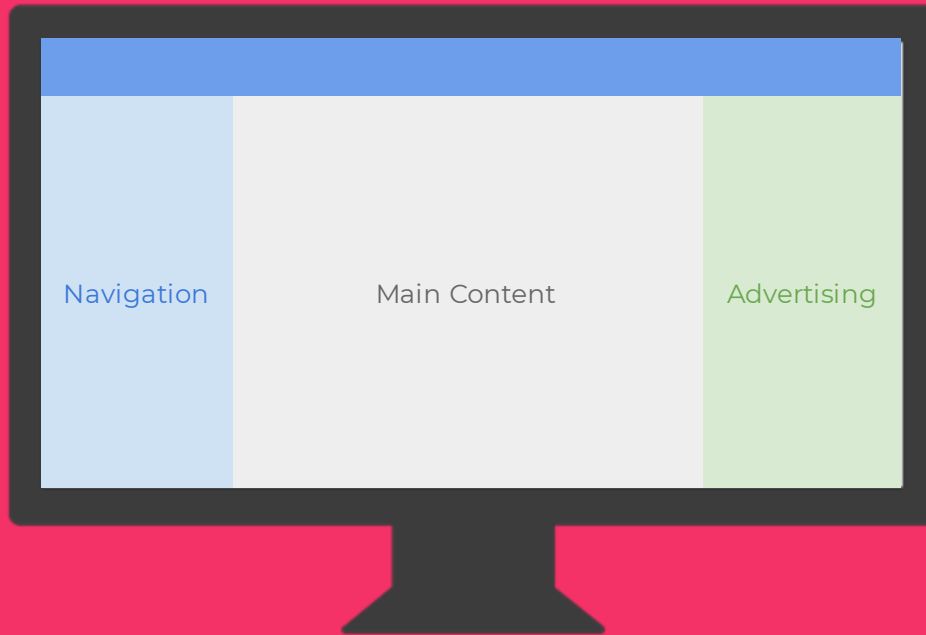
# Media Queries

- 991px
- 768px
- 480px

```
@media screen and (min-width: 768px) {  
  main {  
    width: 300px;  
  }  
}  
  
@media screen and (min-width: 991px) {  
  main {  
    width: 500px;  
  }  
}
```

# Exercise - Code-along

- Build a responsive site. No Content. At 768px set width to 100%



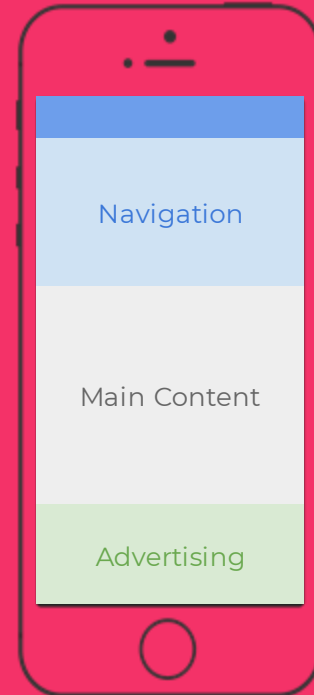
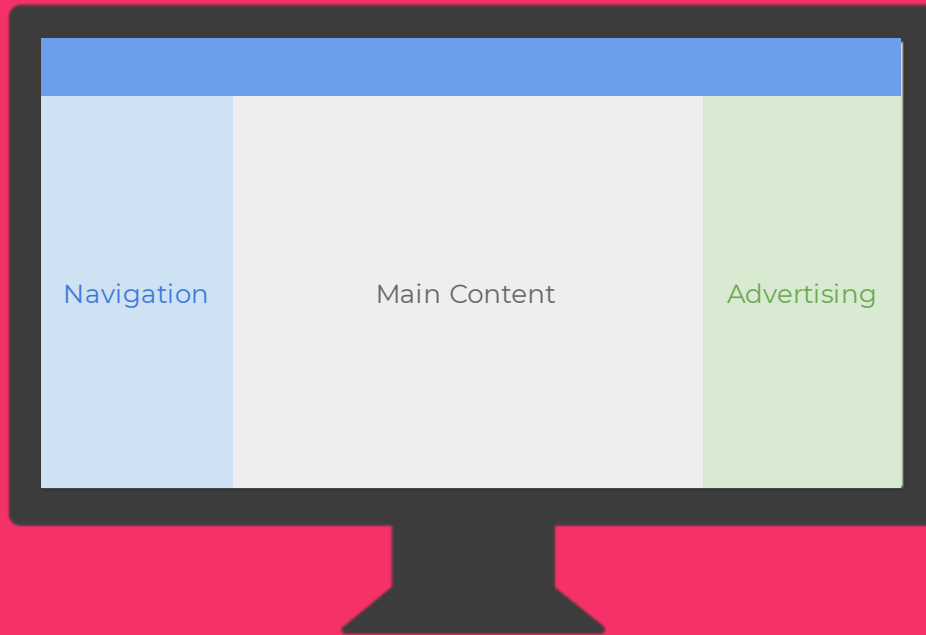
# CSS grid properties

Two dimensional layout model using rows and grids

```
#container {  
  display: grid;  
  grid-template-columns: 1fr 1fr 1fr;  
  grid-template-rows: 25% 100px auto;  
  grid-gap: 10px;  
}  
  
.item {  
  /* Start/End work on start and end 'lines' */  
  grid-column-start: 2;  
  grid-column-end: 4;  
  grid-row-start: 1;  
  grid-row-end: 3;  
}
```

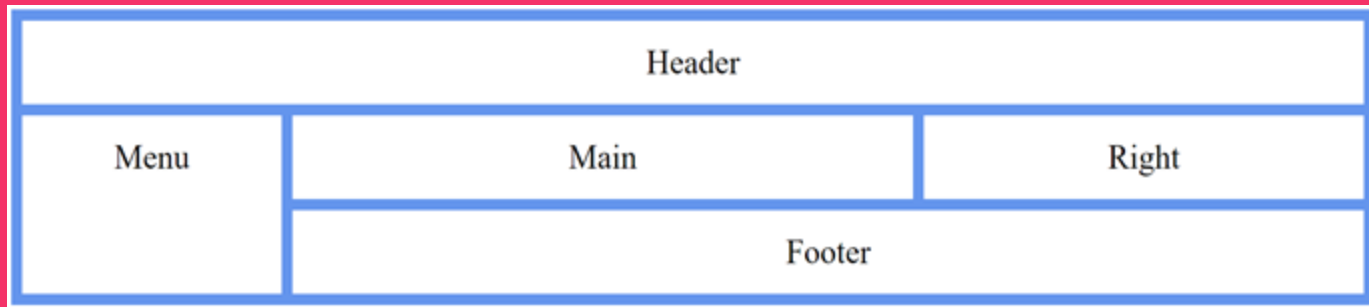
# Code Along

- Build this responsive site with Grid



# Challenge

- Build this responsive site with Grid





# Grid Areas

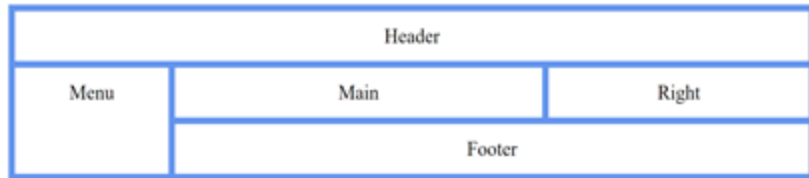
## Container & item properties

```
<div class="grid-container">
  <header>Header</header>
  <nav>Menu</nav>
  <main>Main</main>
  <aside>Right</aside>
  <footer>Footer</footer>
</div>
```

```
header {
  grid-area: header;
}
nav {
  grid-area: menu;
}
main {
  grid-area: main;
}
aside {
  grid-area: right;
}
footer {
  grid-area: footer;
}
```

```
.grid-container {
  display: grid;
  grid-template-areas:
    "header header header header header"
    "menu main main main right right"
    "menu footer footer footer footer"
  footer";
  grid-gap: 10px;
  background-color: cornflowerblue;
  padding: 10px;
}

.grid-container > * {
  background-color: white;
  text-align: center;
  padding: 20px 0;
  font-size: 30px;
}
```



# Challenges

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1. Navigate to html-css-challenges repo
2. Go to advanced-web/responsiveness folder
3. Check readme for instructions

# Useful links

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<https://css-tricks.com/snippets/css/complete-guide-grid/>

[https://www.w3schools.com/css/css\\_grid.asp](https://www.w3schools.com/css/css_grid.asp)