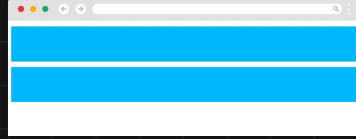# Advanced CSS

CSS Display

Span Element : `<span>...</span>`

Display Property:

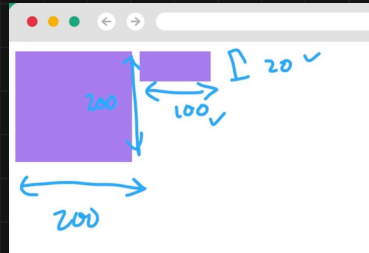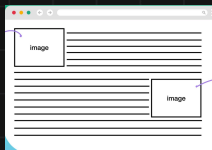**Block:** entire full width.

Differences between Block and Inline

① Block only takes one line regardless the width

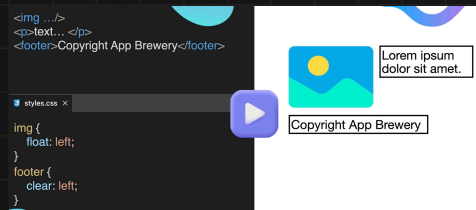② Inline will turn to next line if the contents are wider than the width

Inline :

Hello | World

longer words have longer block

Cannot width set height

Inline - Block :

200 | 100 | 20 | 200

CSS Float

float: left
float: right

image | image

clear: left

```
<img .../>
<p>text... </p>
<footer>Copyright App Brewery</footer>
```

```
styles.css ×
img {
    float: left;
}
footer {
    clear: left;
}
```

Lorem ipsum dolor sit amet.

Copyright App Brewery

clear: both

Header

float left — Sidebar → Main content — float right

Footer — Clear: both

Responsive Websites

4 ways to creat responsive web
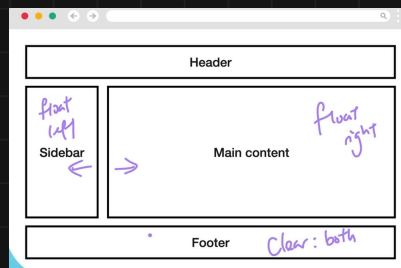
Media Query

```
@media (max-width: 600px) {
    /* CSS for screens below or equal to 600px wide */
}
```

CSS Grid

CSS Grid

```
<div class="grid-container">
    <div class="first card"></div>
    <div class="card"></div>
    <div class="card"></div>
    <div class="card"></div>
    <div class="card"></div>
</div>
```

```
.grid-container {
    display: grid;
    grid-template-columns: 1fr 1fr;
    grid-template-rows: 100px 200px 200px;
    gap: 30px;
}

.first {
    grid-column: span 2;
}

.card {
    background-color: blue;
}
```

CSS Flexbox

CSS Flexbox

```
<div class="flex-container">
    <div class="first card"></div>
    <div class="second card"></div>
    <div class="card"></div>
    <div class="card"></div>
</div>
```

```
.flex-container {
    display: flex;
}

.card{
    background: blue;
    border: 30px solid white;
    height: 100px;
    flex: 1;
}
.first {
    flex:2;
}
.second {
    flex: 0.5;
}
```

Bootstrap Framework

```
<div class="container">
    <div class="row">
        <div class="card col-6">
            Card
        </div>
        <div class="card col-2">
            Card
        </div>
        <div class="card col-4">
            Card
        </div>
    </div>
</div>
```
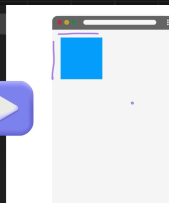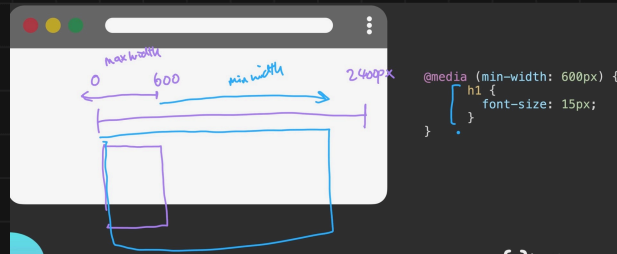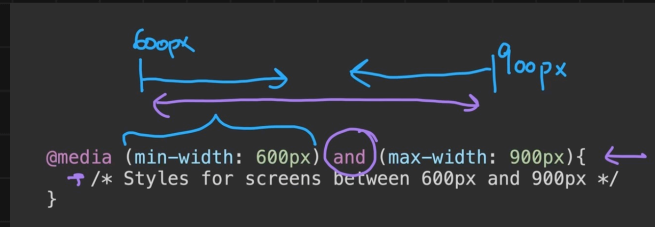
Media Query

Max Width :

```
styles.css

div {
    background-color: blue;
    height: 200px;
    width: 200px;
}

@media (max-width: 600px) {
    div {
        height: 100px;
        width: 100px;
    }
}
```

Min Width


```
@media (min-width: 600px) {
    h1 {
        font-size: 15px;
    }
}
```

Combine


```
@media (min-width: 600px) and (max-width: 900px){
    /* Styles for screens between 600px and 900px */
}
```

Advanced CSS

- Display : ① block ② inline ③ inline-block

- Float : ① float : left ② float : right ③ clear : left, right, both

- Responsive web : ① media query ② css grid ③ flexbox ④ bootstrap framework