chapter 7 : CSS Grid and Media Queries

A css grid can be initialized using

```
Container {
    display : grid;
}
```

All direct children automatically becommes grid items.

The grid-column-gap property.
used to adjust the space between the columns of
a css grid.

The grid -row- gap property
used to adjust the space between the rows of a css
grid.

The grid-gap property
Shorthand property for grid-row-gap and grid-column-gap.

```
Containers {
    display : grid;
    grid-gap : 40px- 100px ;
               ↑         ↑
              row     column.
}
```

Note: For a single value of grid-gap, both row and column
gaps can be set in one value.

Following are the properties for grid container:

1. The grid-template columns property can be used to Specify the width of columns.

```
container {
    display: grid;
    grid-template-columns: 80px 120px auto;
}
```

2. The grid-template-rows property can be used to specify the height of each row

```
container {
    display: grid;
    grid-template-rows: 70px 150px;
}
```

3. The justify-content property is used to align the whole grid inside the container.

4. The align-content property is used to vertically align the whole grid inside the container.

Following are the properties for grid item.:

1. The grid-column property defines how many columns an items will span.

```
grid item {
    grid-column :1/5;
}
```

2. The grid-row property defines how many rows an item will span.

3. We can make an item to start on column 1 and span 3 columns like this:

```
item {
    grid-column : 1/ span 3;
}
```

CSS media-Queries
used to apply css only when a certain condition is true

Syntax:
```
@media only screen and (max-width : 800 px) {
    body {
        background: red;
    }
}
```

CSS Media Queries

The @media rule, introduced in CSS 2, made it possible to define different style rules for different media types. Eg. you could have one set of style rules for computer screens, one for printers, one for handheld devices, one for television type devices and so on.

Unfortunately these media types never got a lot of support by devices, other than the print media type.

So, Media queries can be used to check many things,
- width and height of the viewport
- width and height of the device
- orientation (is the tablet/phone in landscape or portrait mode?)
- Resolution.

Using media queries are a popular technique for delivering a tailored style sheet to desktops, laptops, tablets and mobile phones (such as iphone and Android phones)

Note

for Best responsive website,
now we have 3 more properties of css
→ flex box → css grid → media queries.

Media queries ?

Basically it's a command. in which a particular colour
changes will appear after cross its max weidth.
i.e. a new css style will shown to us after
oresize to its paritular weidth size.
- It will use when we want responsive layout.