



# COMPLETE CSS NOTES

## BOX MODEL & LAYOUT

### BOX PROPERTIES

- `margin` : Space outside an element.

```
div {  
  margin: 10px;  
}
```

- `padding` : Space inside an element.

```
div {  
  padding: 10px;  
}
```

- `box-sizing` : Defines box model behavior.

```
div {  
  box-sizing: border-box;  
}
```



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## BOX MODEL & LAYOUT

### BORDER :

- border-width: Sets the thickness
- border-style: Defines the type (solid, dashed, dotted)
- border-color: Sets the color
- border-radius: Rounds corners

```
div {  
  border: 2px solid black;  
  border-radius: 10px;  
}
```



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## BACKGROUND & SHADOWS

### BACKGROUND PROPERTIES

- background-color: Sets background color
- background-image: Adds an image
- background-size: Defines image size (cover, contain)
- background-position: Positions image
- background-repeat: Repeats image (repeat, no-repeat).

```
body {  
  background: url('image.jpg') no-repeat center/cover;  
}
```

- linear-gradient: Creates gradient backgrounds

```
div {  
  background: linear-gradient(to right, red, blue);  
}
```



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## BACKGROUND & SHADOWS

### SHADOW EFFECTS

```
• box-shadow : Adds shadow to elements.  
  
div {  
  box-shadow: 5px 5px 10px gray;  
}  
  
• text-shadow : Adds shadow to text.  
  
h1 {  
  text-shadow: 2px 2px 5px gray;  
}
```



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## UNDERSTANDING BACKGROUND PROPERTIES

CSS provides various background properties to enhance the visual appeal of web pages. These properties allow developers to control the background image, size, positioning, and repeating behavior.

### BACKGROUND-SIZE

Defines how a background image is scaled within an element.

- `background-size: cover;` → The image covers the entire element, maintaining its aspect ratio.
- `background-size: contain;` → The image scales to fit inside the element while maintaining its aspect ratio.
- `background-size: 50% 50%;` → The image is resized to 50% of the width and height of the element.

Example :

```
body {  
  background-image: url('image.jpg');  
  background-size: cover;  
}
```



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## BACKGROUND-IMAGE

Used to set an image as the background of an element.

Example :

```
div {  
  background-image: url('example.jpg');  
  background-size: cover;  
}
```



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## BACKGROUND-REPEAT

Controls whether the background image repeats and how.

- background-repeat: repeat; (default) → Image repeats both horizontally and vertically.
- background-repeat: no-repeat; → Image does not repeat.
- background-repeat: repeat-x; → Image repeats horizontally.
- background-repeat: repeat-y; → Image repeats vertically.

Example :

```
div {  
  background-image: url('pattern.png');  
  background-repeat: no-repeat;  
}
```