



FRAMEWORK

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What is W3.CSS?

W3.CSS is a modern CSS framework created by W3Schools. It is designed to help developers build responsive websites quickly and easily.

How to Download W3.CSS

1. Visit the W3Schools website:

www.w3schools.com/w3css/4/w3.css

Link to CDN: You can use W3.CSS directly by linking to its CDN (Content Delivery Network) in your HTML:

```
<link rel="stylesheet"
href="https://www.w3schools.com/w3css/4/w3.
css">
```

Download option: You can also download the CSS file from the website if you prefer to host it locally.

Advantages

- Lightweight and fast.
- Easy syntax and structure.
- Responsive design support.
- Simple to customize.
- Works in modern browsers.

Disadvantages

- Limited features compared to advanced framework like-bootstrap.
 - Not so popular
 - Less customization
 - Less suitable for large, complex projects.
- 

Module-1: Color,Hover And Text

w3-container

- Adds padding to the element for consistent spacing.

w3-color

- Applies a background color to the element.

w3-text-color

- Changes the text color of the element.

w3-hover-color

- Changes the background color when hovered over.

W3-hover-text-color

- Changes the text color when hovered over.
- 

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="framework.css">
</head>
<body>

  <!-- w3-container , w3-color and w3-text-color -->
  <div class="w3-container w3-gray w3-text-black">
    <h2>London</h2>
    <p>London is the most populous city in the United Kingdom, with a metropolitan area of over 9 million inhabitants.</p>
  </div>

  <!-- w3-hover-color -->
  <div class="w3-container w3-hover-red">
    <h2>Hover Colors</h2>
    <p>Changes the background color when hovering over this element.</p>
  </div>

  <!-- w3-hover-text-color -->
  <div class="w3-container w3-orange w3-hover-text-white">
    <h2>London</h2>
    <p>London is the most populous city in the United Kingdom, with a metropolitan area of over 9 million inhabitants.</p>
  </div>
</body>
</html>
```

Output

London

London is the most populous city in the United Kingdom, with a metropolitan area of over 9 million inhabitants.

Hover Colors

Changes the background color when hovering over this element.

London

London is the most populous city in the United Kingdom, with a metropolitan area of over 9 million inhabitants.

Module-2: Panel And Container

w3-panel

- Adds a styled box with padding and a border, used for alerts or grouping content.

w3-container

- Adds padding around elements without a border, mainly for spacing.
- 

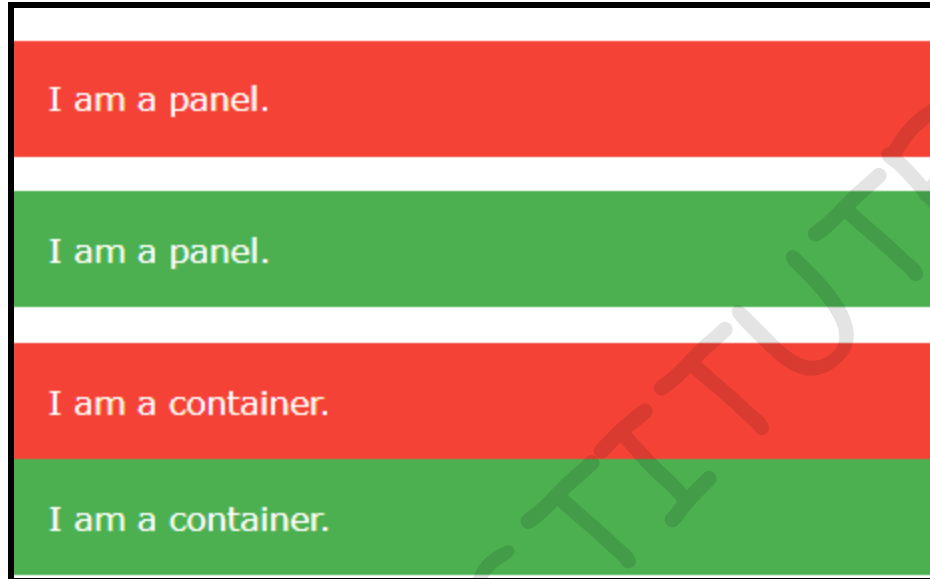
Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="framework.css">
</head>
<body>

  <!-- show difference between container and panel-->
  <!-- w3-pannel and w3-container-->
  <div class="w3-panel w3-red">
    <p>I am a panel.</p>
  </div>
  <div class="w3-panel w3-green">
    <p>I am a panel.</p>
  </div>

  <div class="w3-container w3-red">
    <p>I am a container.</p>
  </div>
  <div class="w3-container w3-green">
    <p>I am a container.</p>
  </div>
</body>
</html>
```

Output



Module-3: Border

Adding Borders

The w3-border classes are used to add borders to any HTML element:

Border Values:

1. w3-border
 2. w3-border-left
 3. w3-border-right
 4. w3-border-top
 5. w3-border-bottom
- 

Border Colors

The **w3-border-color** classes are used to add colors to borders:

Pale Background Colors

- Syntax: **w3-pale-color**
- Applies a pale (lighter) version of a specific color as the background for an element.

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>
<div class="w3-container">
  <h2>Border Colors</h2>

  <div class="w3-panel w3-border w3-border-red">
    <p>I have red borders.</p>
  </div>

  <div class="w3-panel w3-border-left w3-border-right w3-border-blue">
    <p>I have a blue left border.</p>
  </div>

  <div class="w3-panel w3-border-top w3-border-bottom w3-border-green">
    <p>I have a green top and bottom border.</p>
  </div>

  <div class="w3-panel w3-border-left w3-pale-red w3-border-red">
    <p>I have a red left border and a pale-red background color.</p>
  </div>

</div>
</body>
</html>
```

Output

Border Colors

I have red borders.

I have a blue left border.

I have a green top and bottom border.

I have a red left border and a pale-red background color.

Rounded Borders

w3-round-[size]

Adds rounded corners to elements with varying degrees of roundness.

Size Classes:

- **w3-round-small**: Slightly rounded corners.
- **w3-round-medium**: Moderately rounded corners.
- **w3-round-large**: Large rounded corners.
- **w3-round-xlarge**: Extra-large rounded corners.
- **w3-round-xxlarge**: Very large rounded corners.
- **w3-round**: Fully rounded corners (circular effect).

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>
<div class="w3-container">

  <h2>Borders</h2>
  <div class="w3-panel w3-border">
    <p>My borders are normal.</p>
  </div>

  <div class="w3-panel w3-border w3-round-small">
    <p>My borders are rounded (small).</p>
  </div>

  <div class="w3-panel w3-border w3-round">
    <p>My borders are rounded.</p>
  </div>
  <div class="w3-panel w3-border w3-round-medium">
    <p>My borders are medium rounded.</p>
  </div>

  <div class="w3-panel w3-border w3-round-large">
    <p>I have large rounded borders.</p>
  </div>

  <div class="w3-panel w3-border w3-round-xlarge">
    <p>I have xlarge rounded borders.</p>
  </div>

  <div class="w3-panel w3-border w3-round-xxlarge">
    <p>I have xxlarge rounded borders.</p>
  </div>

</div>
</body>
</html>
```

Output

Borders

My borders are normal.

My borders are rounded (small).

My borders are rounded.

My borders are medium rounded.

I have large rounded borders.

I have xlarge rounded borders.

I have xxlarge rounded borders.

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Thick Borders

These classes are used to add thick borders to the specified side of an element

Values are:-

- w3-topbar
- w3-bottombar
- w3-leftbar
- W3-rightbar

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>  <h2>Thick Borders Example</h2>

  <div class="w3-topbar w3-border-blue">
    <p>This element has a thick blue border on the top.</p>
  </div>

  <div class="w3-bottombar w3-border-red">
    <p>This element has a thick red border on the bottom.</p>
  </div>

  <div class="w3-leftbar w3-border-green">
    <p>This element has a thick green border on the left.</p>
  </div>

  <div class="w3-rightbar w3-border-orange">
    <p>This element has a thick orange border on the right.</p>
  </div>
</body>
</html>
```

Output

Thick Borders Example

This element has a thick blue border on the top.

This element has a thick red border on the bottom.

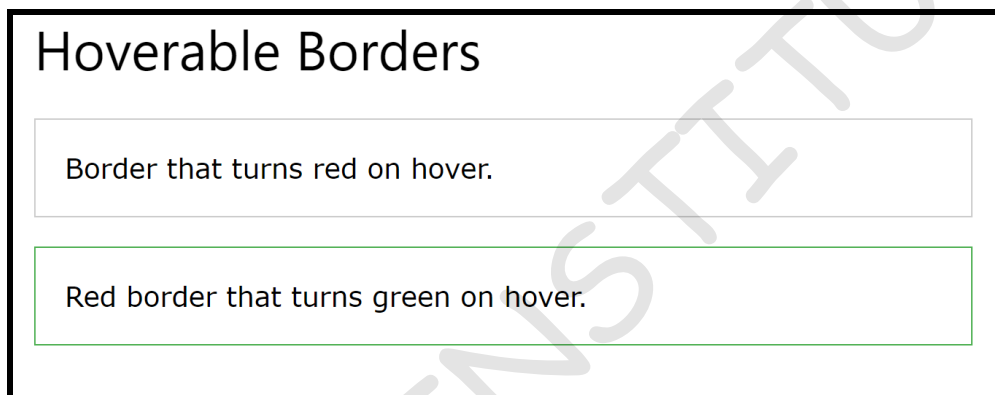
This element has a thick green border on the left.

This element has a thick orange border on the right.

Hoverable Borders

The **w3-hover-border-color** classes change the color of the border on mouse-over:

Output



Input

```
<!DOCTYPE html>
<html>
<head>
  <title>w3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>
<div class="w3-container">
  <h2>Hoverable Borders</h2>

  <div class="w3-panel w3-border w3-hover-border-red">
    <p>Border that turns red on hover.</p>
  </div>

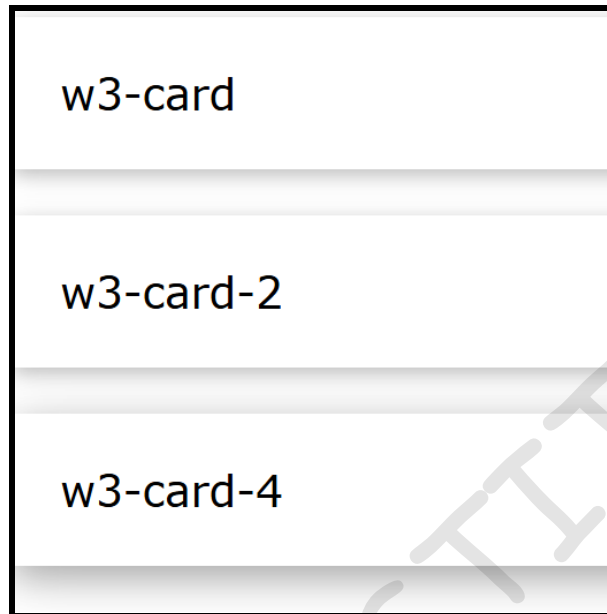
  <div class="w3-panel w3-border w3-border-red w3-hover-border-green">
    <p>Red border that turns green on hover.</p>
  </div>
</div>
</body>
</html>
```

Module-4: Card

Card Classes

- **Purpose:** Creates card-like containers for content (text, images, links) with responsive design.
- **Common Classes:**
 - **w3-card:** Basic card with a shadow.
 - **w3-card-2:** Light shadow.
 - **w3-card-4:** Deep shadow for stronger emphasis.

OUTPUT



Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>
<div class="w3-panel w3-card"><p>w3-card</p></div>
  <div class="w3-panel w3-card-2"><p>w3-card-2</p></div>
  <div class="w3-panel w3-card-4"><p>w3-card-4</p></div>
</body>
</html>
```

Practical set

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>
<div class="w3-container">
  <h2>Card Example</h2>

  <div class="w3-card-4 w3-dark-grey" style="width:50%">

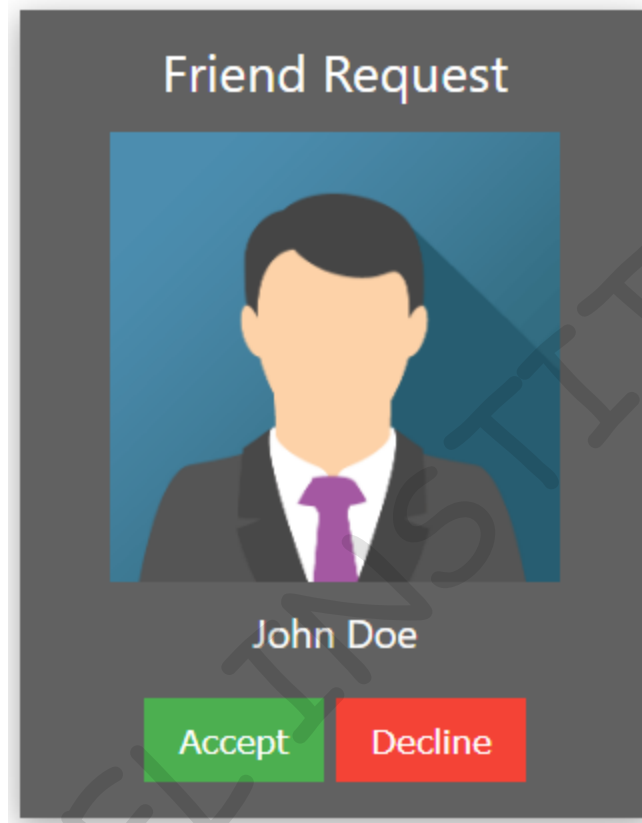
    <div class="w3-container w3-center">
      <h3>Friend Request</h3>
      
      <h5>John Doe</h5>

      <div class="w3-section">
        <button class="w3-button w3-green">Accept</button>
        <button class="w3-button w3-red">Decline</button>
      </div>
    </div>

  </div>
</div>
</body>
</html>
```

Output

Card Example



Module-5: Fonts

Default font size is 15px.

Default font is verdana.

Default line spacing (1.5).

There are 8 classes:-

- W3-tiny = (10px)
 - W3-small = (12px)
 - W3-medium = (15px)
 - W3-large = (18px)
 - W3-xlarge = (24px)
 - W3-xxlarge = (36px)
 - W3-xxlarge = (48px)
 - W3-jumbo = (64px)
- 

Output

This is W3-tiny text (smallest).

This is W3-small text.

This is W3-medium text (default size).

This is W3-large text.

This is W3-xlarge text.

This is W3-xxlarge text.

This is W3-xxlarge text.

This is W3-jumbo text (largest).

Input

```
<body>

  <!-- FONT SIZE CLASSES -->
  <p class="w3-tiny">This is W3-tiny text (smallest).</p>
  <p class="w3-small">This is W3-small text.</p>
  <p class="w3-medium">This is W3-medium text (default size).</p>
  <p class="w3-large">This is W3-large text.</p>
  <p class="w3-xlarge">This is W3-xlarge text.</p>
  <p class="w3-xxlarge">This is W3-xxlarge text.</p>
  <p class="w3-xxlarge">This is W3-xxlarge text.</p>
  <p class="w3-jumbo">This is W3-jumbo text (largest).</p>

</body>
```

Module-6: Text

It is used to style text and add text effects. These classes can align text, center text, to the text, and changes its opacity.

Values

- **w3-right-align**: Aligns text to the right.
 - **w3-left-align**: Aligns text to the left.
 - **w3-center**: Centers the text horizontally.
 - **w3-wide**: Adds spacing between letters.
 - **w3-slim**: Reduces spacing between letters.
 - **w3-opacity**: Sets text opacity for a semi-transparent look.
- 

INPUT

```
<body>

  <!-- W3-right-align -->
  <p class="w3-right-align">This text is right-aligned.</p>

  <!-- W3-left-align -->
  <p class="w3-left-align">This text is left-aligned.</p>

  <!-- W3-center -->
  <p class="w3-center">This text is centered.</p>

  <!-- W3-wide -->
  <p class="w3-wide">This text has wide letter spacing.</p>

  <!-- W3-slim -->
  <p class="w3-slim">This text has slim letter spacing.</p>

  <!-- W3-opacity -->
  <p class="w3-opacity">This text is semi-transparent.</p>

</body>
```

OUTPUT

This text is right-aligned.

This text is left-aligned.

This text is centered.

This text has wide letter spacing.

This text has slim letter spacing.

This text is semi-transparent.

Module-7:Table

The table was the most primary layout element.

If you want to show data in tabular form, table is still the key element.

Web pages consisted of hundreds of nested.

Values

- **w3-table**: Defines a container for an HTML table.
 - **w3-striped**: Adds alternating row colors to create a striped effect.
 - **w3-border**: Adds a border around the table.
 - **w3-bordered**: Adds lines to border each cell within the table.
- 

-
- **w3-centered**: Centers the content of the table.
 - **w3-hoverable**: Highlights table rows when hovered over.
 - **w3-table-all**: Combines all the above properties for a comprehensive table styling.

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Output

W3.CSS Table with All Styles

Name	Age
John	25
Jane	30
Sam	22

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>

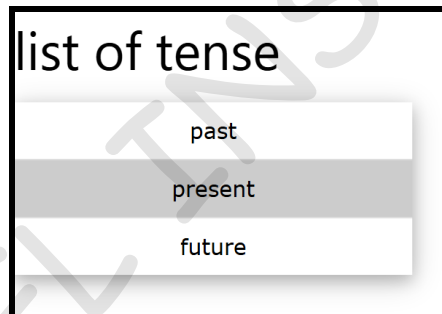
  <h2>W3.CSS Table with All Styles</h2>
  <table class="w3-table-all w3-striped w3-border w3-bordered w3-centered w3-hoverable">
    <tr><th>Name</th><th>Age</th></tr>
    <tr><td>John</td><td>25</td></tr>
    <tr><td>Jane</td><td>30</td></tr>
    <tr><td>Sam</td><td>22</td></tr>
  </table>
</body>
</html>
```

Module-8: List

List

- **w3-ul**: Styles list with padding.
- **w3-hoverable**: Adds hover effect.
- **w3-card-4**: Adds shadow depth.

Output



Input

```
<!DOCTYPE html>
<html>
<head>
  <title>w3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>
<h1>list of tense</h1>

<ul class="w3-ul w3-hoverable w3-center w3-card-4" style="width:40%">
<li>past</li>
<li>present</li>
<li>future</li>
</ul>

</body>
</html>
```

Module-9: Padding

The `w3-padding-number` classes add top and bottom padding to any HTML element

values:-

- `w3-padding-16`: 16px top/bottom padding.
- `w3-padding-24`: 24px top/bottom padding.
- `w3-padding-32`: 32px top/bottom padding.
- `w3-padding-48`: 48px top/bottom padding.
- `w3-padding-64`: 64px top/bottom padding.

Input

```
<div class="w3-panel w3-padding-16 w3-orange">
  <h4>w3-padding-16</h4>
  <p>I have 16px top and bottom padding</p>
</div>

<div class="w3-panel w3-padding-24 w3-orange">
  <h4>w3-padding-24</h4>
  <p>I have 24px top and bottom padding</p>
</div>

<div class="w3-panel w3-padding-32 w3-orange">
  <h4>w3-padding-32</h4>
  <p>I have 32px top and bottom padding</p>
</div>

<div class="w3-panel w3-padding-48 w3-orange">
  <h4>w3-padding-48</h4>
  <p>I have 48px top and bottom padding</p>
</div>

<div class="w3-panel w3-padding-64 w3-orange">
  <h4>w3-padding-64</h4>
  <p>I have 64px top and bottom padding</p>
</div>
```

Output

w3-padding-16

I have 16px top and bottom padding

w3-padding-24

I have 24px top and bottom padding

w3-padding-32

I have 32px top and bottom padding

w3-padding-48

I have 48px top and bottom padding

w3-padding-64

I have 64px top and bottom padding

Padding Size Classes

The `w3-padding-size` classes add top, bottom, right, and left padding to any HTML element:

Values

- `w3-padding`: 8px padding (top/bottom), 16px (left/right).
- `w3-padding-small`: 4px padding (top/bottom), 8px (left/right).
- `w3-padding-large`: 12px padding (top/bottom), 24px (left/right).

Input

```
<div class="w3-panel w3-padding-small w3-blue">
<h4>w3-padding-small</h4>
<p>I have 4px top and bottom padding and 8px left and right padding.
</p>
</div>

<div class="w3-panel w3-padding w3-blue">
<h4>w3-padding</h4>
<p>I have 8px top and bottom padding and 16px left and right padding.
</p>
</div>

<div class="w3-panel w3-padding-large w3-blue">
<h4>w3-padding-large</h4>
<p>I have 12px top and bottom padding and 24px left and right
padding.</p>
</div>
```

Output

w3-padding-small

I have 4px top and bottom padding and 8px left and right padding.

w3-padding

I have 8px top and bottom padding and 16px left and right padding.

w3-padding-large

I have 12px top and bottom padding and 24px left and right padding.

Module-10: Margin

- **w3-margin**: 16px margin on all sides.
 - **w3-margin-top**: 16px top margin.
 - **w3-margin-right**: 16px right margin.
 - **w3-margin-bottom**: 16px bottom margin.
 - **w3-margin-left**: 16px left margin.
 - **w3-section**: 16px top and bottom margin.
- 

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>
<h1>list of tense</h1>

<div class="w3-container">
  <h1>Using w3-margin</h1>

  <div class="w3-border">
    <div class="w3-container w3-margin w3-green">
      <p>The w3-margin class adds 16px margin to all sides of an element.</p>
    </div>
  </div>
</div>
</body>
</html>
```

Output

Using w3-margin

The w3-margin class adds 16px margin to all sides of an element.

Module-11: Images

Images

Rounded:



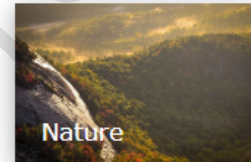
Circle:



Bordered:



Text:



Rounded

Input

```
<div class="w3-container">
  <h2>Rounded Images</h2>
  <p>The w3-round classes add rounded corners to an image:</p>

  <p>w3-round-small:</p>
  

  <p>w3-round:</p>
  

  <p>w3-round-large:</p>
  

  <p>w3-round-xlarge:</p>
  

  <p>w3-round-xxlarge:</p>
  
</div>
```

Output



The **w3-circle** class shapes an image to a circle:

Input

```
<!DOCTYPE html>
<html>
<head>
  <title>W3.CSS</title>
  <link rel="stylesheet" href="FRAMEWORK.CSS">
</head>
<body>

</body>
</html>
```

Output



Bordered image

Output



More padding:



Input

```
<body>

  <p>More padding:</p>
  

</body>
```

Image Text

Position the text in an image with the *w3-display-classes*:

- **w3-display-topleft / w3-display-topright**: Positions an element at the top left/right of the container.
- **w3-display-bottomleft / w3-display-bottomright**: Positions an

element at the bottom left/right of the container.

- **w3-display-left / w3-display-right**: Centers an element vertically on the left/right side.
- **w3-display-middle**: Centers an element both horizontally and vertically in the middle.
- **w3-display-topmiddle / w3-display-bottommiddle**: Centers an element horizontally at the top/bottom.

Input

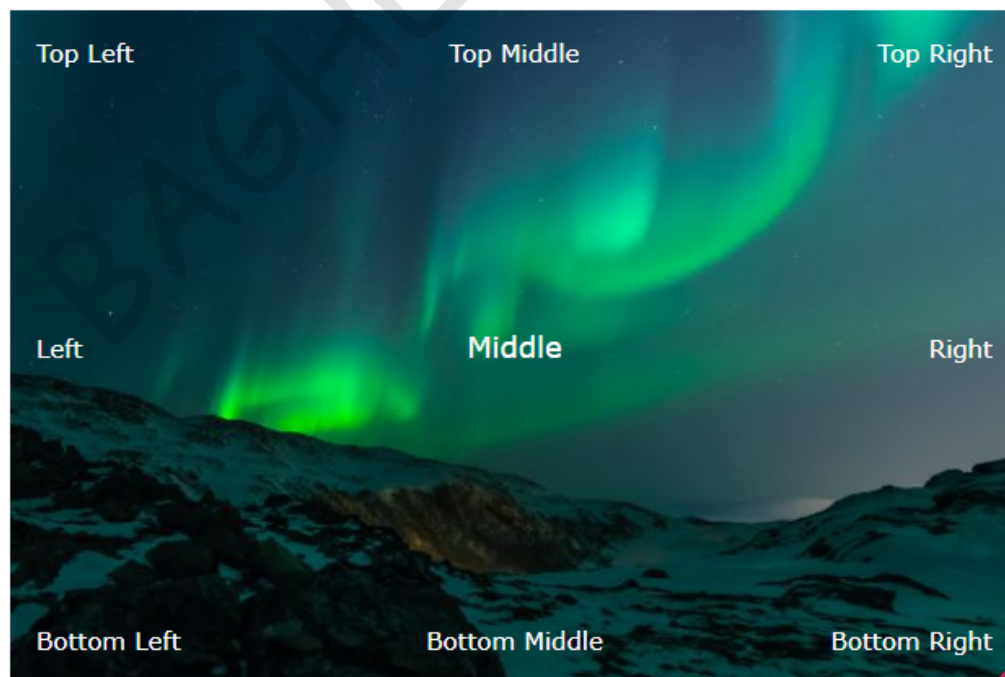
```
<div class="w3-container">
  <h2>Image Text</h2>
  <p>Position content inside an image with the w3-display-classes -
  Note that we have added the w3-container class to get more padding:</p>

  <div class="w3-display-container w3-text-white">
    
    <div class="w3-display-topleft w3-container"><p>Top Left</p></div>
    <div class="w3-display-topright w3-container"><p>Top Right</p></div>
    <div class="w3-display-bottomleft w3-container"><p>Bottom Left</p></div>
    <div class="w3-display-bottomright w3-container"><p>Bottom Right</p>
  </div>
  <div class="w3-display-left w3-container"><p>Left</p></div>
  <div class="w3-display-right w3-container"><p>Right</p></div>
  <div class="w3-display-middle w3-large">Middle</div>
  <div class="w3-display-topmiddle w3-container"><p>Top Middle</p></div>
  <div class="w3-display-bottommiddle w3-container"><p>Bottom Middle</p>
</div>
</div>
</div>
```

Output

Image Text

Position content inside an image with the w3-display-classes - Note that we have added the w3-container class to get more padding:



Opacity

1. **w3-opacity**: Sets the default opacity to 0.75 (75% opaque).
2. **w3-opacity-min**: Sets a minimal opacity of 0.25 (25% opaque).
3. **w3-opacity-max**: Sets full opacity at 1.0 (100% opaque).

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Input

```
<div class="w3-container">
  <h2>Opacity/Transparency</h2>
  <p>The w3-opacity classes adds transparency to an element.</p>

  <p>Normal (100% opacity):</p>
  
  <p>w3-opacity-min (75% opacity):</p>
  
  <p>w3-opacity (60% opacity):</p>
  
  <p>w3-opacity-max (25% opacity):</p>
  
</div>
```

Output

Opacity/Transparency

The w3-opacity classes adds transparency to an element.

Normal (100% opacity):



w3-opacity-min (75% opacity):



w3-opacity (60% opacity):



w3-opacity-max (25% opacity):



Grayscale

The `w3-grayscale` classes in `W3.CSS` allow you to apply grayscale effects to elements, primarily images, to achieve a monochrome or black-and-white look.

Grayscale Classes:

1. `w3-grayscale`: Applies 75% grayscale (partially desaturated).
2. `w3-grayscale-max`: Applies 100% grayscale (fully black and white).
3. `w3-grayscale-min`: Applies 25% grayscale (slightly desaturated).

Sepia

The `w3-sepia` classes in `W3.CSS` provide sepia effects, giving elements, especially images, a warm, antique or vintage look.

W3.CSS Sepia Classes:

1. `w3-sepia`: Applies 75% sepia (partially tinted).
2. `w3-sepia-max`: Applies 100% sepia (full vintage tone).
3. `w3-sepia-min`: Applies 25% sepia (slightly tinted).

Hover Effects

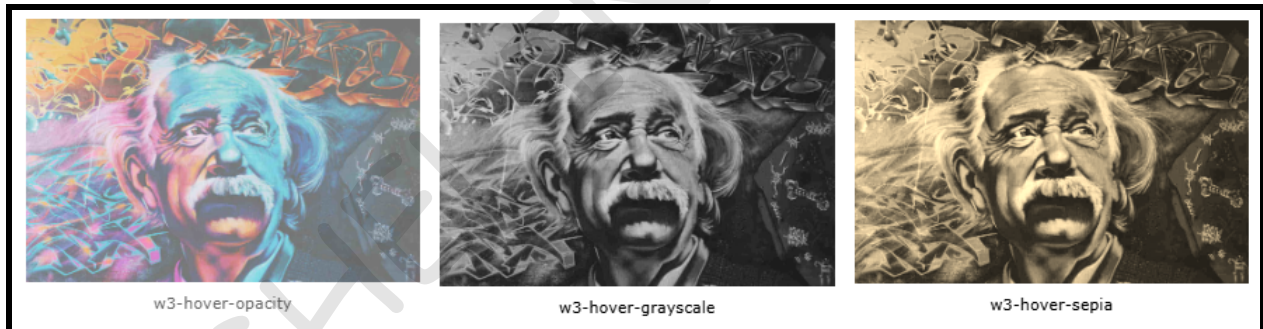
You can also add special effects on hover/mouse-over.

Input

```
  
  

```

Output



Opacity Off

Input

```
  

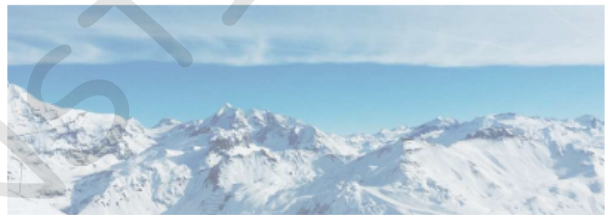
```

Output

Add transparency on hover:



Remove transparency on hover:



Module-12: Grid

It support **12 columns**.

By 12 columns we suggest that each row is further divided into 12 column.

THERE ARE THREE SCREEN SIZES:-

- Columns for small screens (typical smart phones):
 - ❖ Small screens(s) - range between (1-12)
- Columns for medium screens (typical tablets):
 - ❖ Medium screens (m)- range between (1-12)
- Columns for large screens (typical laptops and desktops):
 - ❖ Large screens (l) -range between (1-12)

A responsive layout adjust itself according to changing screen sizes.

A row is created using **w3-row** class.

A column is specified by **w3-col** class.

input

```
<div class="w3-row">
  <div class="w3-col m1 w3-center w3-grey">1</div>
  <div class="w3-col m1 w3-center">2</div>
  <div class="w3-col m1 w3-center w3-grey">3</div>
  <div class="w3-col m1 w3-center">4</div>
  <div class="w3-col m1 w3-center w3-grey">5</div>
  <div class="w3-col m1 w3-center">6</div>
  <div class="w3-col m1 w3-center w3-grey">7</div>
</div>
```

Output

1	2	3	4	5	6	7
---	---	---	---	---	---	---

Input

```
<div class="w3-row">
  <div class="w3-col m6 w3-green w3-center">
    <p>s6</p>
  </div>
  <div class="w3-col s6 w3-dark-grey w3-center">
    <p>s6</p>
  </div>
</div>
```

Output

