**CSS Command Lines**

**All CSS Background Properties**

|  |  |
| --- | --- |
| **Property** | **Description** |
| [background](https://www.w3schools.com/cssref/css3_pr_background.asp) | Sets all the background properties in one declaration |
| [background-attachment](https://www.w3schools.com/cssref/pr_background-attachment.asp) | Sets whether a background image is fixed or scrolls with the rest of the page |
| [background-color](https://www.w3schools.com/cssref/pr_background-color.asp) | Sets the background color of an element |
| [background-image](https://www.w3schools.com/cssref/pr_background-image.asp) | Sets the background image for an element |
| [background-position](https://www.w3schools.com/cssref/pr_background-position.asp) | Sets the starting position of a background image |
| [background-repeat](https://www.w3schools.com/cssref/pr_background-repeat.asp) | Sets how a background image will be repeated |

**All CSS Border Properties**

|  |  |
| --- | --- |
| **Property** | **Description** |
| [border](https://www.w3schools.com/cssref/pr_border.asp) | Sets all the border properties in one declaration |
| [border-bottom](https://www.w3schools.com/cssref/pr_border-bottom.asp) | Sets all the bottom border properties in one declaration |
| [border-bottom-color](https://www.w3schools.com/cssref/pr_border-bottom_color.asp) | Sets the color of the bottom border |
| [border-bottom-style](https://www.w3schools.com/cssref/pr_border-bottom_style.asp) | Sets the style of the bottom border |
| [border-bottom-width](https://www.w3schools.com/cssref/pr_border-bottom_width.asp) | Sets the width of the bottom border |
| [border-color](https://www.w3schools.com/cssref/pr_border-color.asp) | Sets the color of the four borders |
| [border-left](https://www.w3schools.com/cssref/pr_border-left.asp) | Sets all the left border properties in one declaration |
| [border-left-color](https://www.w3schools.com/cssref/pr_border-left_color.asp) | Sets the color of the left border |
| [border-left-style](https://www.w3schools.com/cssref/pr_border-left_style.asp) | Sets the style of the left border |
| [border-left-width](https://www.w3schools.com/cssref/pr_border-left_width.asp) | Sets the width of the left border |
| [border-radius](https://www.w3schools.com/cssref/css3_pr_border-radius.asp) | Sets all the four border-\*-radius properties for rounded corners |
| [border-right](https://www.w3schools.com/cssref/pr_border-right.asp) | Sets all the right border properties in one declaration |
| [border-right-color](https://www.w3schools.com/cssref/pr_border-right_color.asp) | Sets the color of the right border |
| [border-right-style](https://www.w3schools.com/cssref/pr_border-right_style.asp) | Sets the style of the right border |
| [border-right-width](https://www.w3schools.com/cssref/pr_border-right_width.asp) | Sets the width of the right border |
| [border-style](https://www.w3schools.com/cssref/pr_border-style.asp) | Sets the style of the four borders |
| [border-top](https://www.w3schools.com/cssref/pr_border-top.asp) | Sets all the top border properties in one declaration |
| [border-top-color](https://www.w3schools.com/cssref/pr_border-top_color.asp) | Sets the color of the top border |
| [border-top-style](https://www.w3schools.com/cssref/pr_border-top_style.asp) | Sets the style of the top border |
| [border-top-width](https://www.w3schools.com/cssref/pr_border-top_width.asp) | Sets the width of the top border |
| [border-width](https://www.w3schools.com/cssref/pr_border-width.asp) | Sets the width of the four borders |
|  |  |

* **border-style: dotted solid double dashed;** 
  + top border is dotted
  + right border is solid
  + bottom border is double
  + left border is dashed

## All CSS Margin Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [margin](https://www.w3schools.com/cssref/pr_margin.asp) | A shorthand property for setting the margin properties in one declaration |
| [margin-bottom](https://www.w3schools.com/cssref/pr_margin-bottom.asp) | Sets the bottom margin of an element |
| [margin-left](https://www.w3schools.com/cssref/pr_margin-left.asp) | Sets the left margin of an element |
| [margin-right](https://www.w3schools.com/cssref/pr_margin-right.asp) | Sets the right margin of an element |
| [margin-top](https://www.w3schools.com/cssref/pr_margin-top.asp) | Sets the top margin of an element |
|  |  |

## All CSS Padding Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [padding](https://www.w3schools.com/cssref/pr_padding.asp) | A shorthand property for setting all the padding properties in one declaration |
| [padding-bottom](https://www.w3schools.com/cssref/pr_padding-bottom.asp) | Sets the bottom padding of an element |
| [padding-left](https://www.w3schools.com/cssref/pr_padding-left.asp) | Sets the left padding of an element |
| [padding-right](https://www.w3schools.com/cssref/pr_padding-right.asp) | Sets the right padding of an element |
| [padding-top](https://www.w3schools.com/cssref/pr_padding-top.asp) | Sets the top padding of an element |

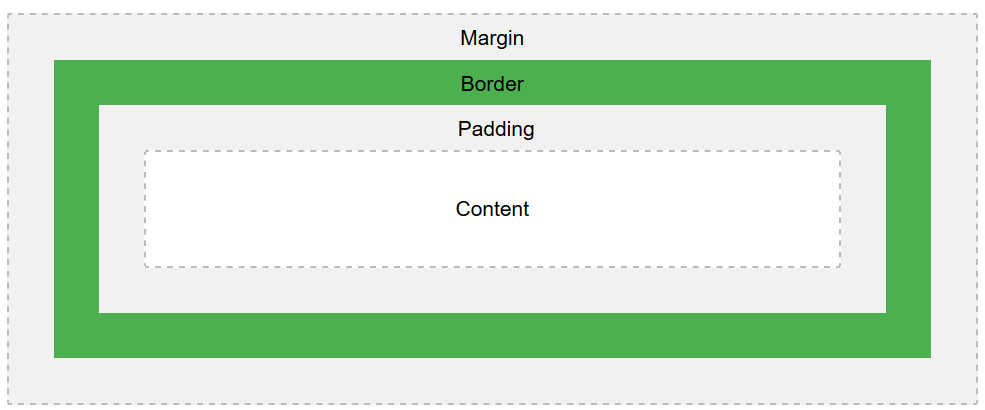
## All CSS Dimension Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [height](https://www.w3schools.com/cssref/pr_dim_height.asp) | Sets the height of an element |
| [max-height](https://www.w3schools.com/cssref/pr_dim_max-height.asp) | Sets the maximum height of an element |
| [max-width](https://www.w3schools.com/cssref/pr_dim_max-width.asp) | Sets the maximum width of an element |
| [min-height](https://www.w3schools.com/cssref/pr_dim_min-height.asp) | Sets the minimum height of an element |
| [min-width](https://www.w3schools.com/cssref/pr_dim_min-width.asp) | Sets the minimum width of an element |
| [width](https://www.w3schools.com/cssref/pr_dim_width.asp) | Sets the width of an element |

**The CSS Box Model**

Explanation of the different parts:

* **Content** - The content of the box, where text and images appear
* **Padding** - Clears an area around the content. The padding is transparent
* **Border** - A border that goes around the padding and content
* **Margin** - Clears an area outside the border. The margin is transparent



## All CSS Outline Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [outline](https://www.w3schools.com/cssref/pr_outline.asp) | A shorthand property for setting outline-width, outline-style, and outline-color in one declaration |
| [outline-color](https://www.w3schools.com/cssref/pr_outline-color.asp) | Sets the color of an outline |
| [outline-offset](https://www.w3schools.com/cssref/css3_pr_outline-offset.asp) | Specifies the space between an outline and the edge or border of an element |
| [outline-style](https://www.w3schools.com/cssref/pr_outline-style.asp) | Sets the style of an outline |
| [outline-width](https://www.w3schools.com/cssref/pr_outline-width.asp) | Sets the width of an outline |

## All CSS Text Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [color](https://www.w3schools.com/cssref/pr_text_color.asp) | Sets the color of text |
| [direction](https://www.w3schools.com/cssref/pr_text_direction.asp) | Specifies the text direction/writing direction |
| [letter-spacing](https://www.w3schools.com/cssref/pr_text_letter-spacing.asp) | Increases or decreases the space between characters in a text |
| [line-height](https://www.w3schools.com/cssref/pr_dim_line-height.asp) | Sets the line height |
| [text-align](https://www.w3schools.com/cssref/pr_text_text-align.asp) | Specifies the horizontal alignment of text |
| [text-decoration](https://www.w3schools.com/cssref/pr_text_text-decoration.asp) | Specifies the decoration added to text |
| [text-indent](https://www.w3schools.com/cssref/pr_text_text-indent.asp) | Specifies the indentation of the first line in a text-block |
| [text-shadow](https://www.w3schools.com/cssref/css3_pr_text-shadow.asp) | Specifies the shadow effect added to text |
| [text-transform](https://www.w3schools.com/cssref/pr_text_text-transform.asp) | Controls the capitalization of text |
| [text-overflow](https://www.w3schools.com/cssref/css3_pr_text-overflow.asp) | Specifies how overflowed content that is not displayed should be signaled to the user |
| [unicode-bidi](https://www.w3schools.com/cssref/pr_text_unicode-bidi.asp) | Used together with the [direction](https://www.w3schools.com/cssref/pr_text_direction.asp) property to set or return whether the text should be overridden to support multiple languages in the same document |
| [vertical-align](https://www.w3schools.com/cssref/pr_pos_vertical-align.asp) | Sets the vertical alignment of an element |
| [white-space](https://www.w3schools.com/cssref/pr_text_white-space.asp) | Specifies how white-space inside an element is handled |
| [word-spacing](https://www.w3schools.com/cssref/pr_text_word-spacing.asp) | Increases or decreases the space between words in a text |

## All CSS Font Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [font](https://www.w3schools.com/cssref/pr_font_font.asp) | Sets all the font properties in one declaration |
| [font-family](https://www.w3schools.com/cssref/pr_font_font-family.asp) | Specifies the font family for text |
| [font-size](https://www.w3schools.com/cssref/pr_font_font-size.asp) | Specifies the font size of text |
| [font-style](https://www.w3schools.com/cssref/pr_font_font-style.asp) | Specifies the font style for text |
| [font-variant](https://www.w3schools.com/cssref/pr_font_font-variant.asp) | Specifies whether or not a text should be displayed in a small-caps font |
| [font-weight](https://www.w3schools.com/cssref/pr_font_weight.asp) | Specifies the weight of a font |

The four links states are:

* a:link - a normal, unvisited link
* a:visited - a link the user has visited
* a:hover - a link when the user mouses over it
* a:active - a link the moment it is clicked

## All CSS List Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [list-style](https://www.w3schools.com/cssref/pr_list-style.asp) | Sets all the properties for a list in one declaration |
| [list-style-image](https://www.w3schools.com/cssref/pr_list-style-image.asp) | Specifies an image as the list-item marker |
| [list-style-position](https://www.w3schools.com/cssref/pr_list-style-position.asp) | Specifies the position of the list-item markers (bullet points) |
| [list-style-type](https://www.w3schools.com/cssref/pr_list-style-type.asp) | Specifies the type of list-item marker |

### **Remove Default Settings**

### The list-style-type:none property can also be used to remove the markers/bullets. Note that the list also has default margin and padding. To remove this, add margin:0 and padding:0 to <ul> or <ol>:

### Example

ul {  
    list-style-type: none;  
    margin: 0;  
    padding: 0;  
}

# CSS Tables

The look of an HTML table can be greatly improved with CSS:

## Table Borders

To specify table borders in CSS, use the border property.

The example below specifies a black border for <table>, <th>, and <td> elements:

### Example

table, th, td {  
   border: 1px solid black;  
}

Notice that the table in the example above has double borders. This is because both the table and the <th> and <td> elements have separate borders.

## Collapse Table Borders

The border-collapse property sets whether the table borders should be collapsed into a single border:

### Example

table {  
    border-collapse: collapse;  
}  
  
table, th, td {  
    border: 1px solid black;  
}

If you only want a border around the table, only specify the border property for <table>:

### Example

table {  
    border: 1px solid black;  
}

## Table Width and Height

Width and height of a table are defined by the width and height properties.

The example below sets the width of the table to 100%, and the height of the <th> elements to 50px:

### Example

table {  
    width: 100%;  
}  
  
th {  
    height: 50px;  
}

## Horizontal Alignment

The text-align property sets the horizontal alignment (like left, right, or center) of the content in <th> or <td>.

By default, the content of <th> elements are center-aligned and the content of <td> elements are left-aligned.

The following example left-aligns the text in <th> elements:

### Example

th {  
    text-align: left;  
}

## Vertical Alignment

The vertical-align property sets the vertical alignment (like top, bottom, or middle) of the content in <th> or <td>.

By default, the vertical alignment of the content in a table is middle (for both <th> and <td> elements).

The following example sets the vertical text alignment to bottom for <td> elements:

### Example

td {  
    height: 50px;  
    vertical-align: bottom;  
}

## Table Padding

To control the space between the border and the content in a table, use the padding property on <td> and <th> elements:

### Example

th, td {  
    padding: 15px;  
    text-align: left;  
}

### Example

th, td {  
    border-bottom: 1px solid #ddd;  
}

## Hoverable Table

Use the :hover selector on <tr> to highlight table rows on mouse over:

|  |  |  |
| --- | --- | --- |
| **First Name** | **Last Name** | **Savings** |
| Peter | Griffin | $100 |
| Lois | Griffin | $150 |
| Joe | Swanson | $300 |

### Example

tr:hover {background-color: #f5f5f5;}

## Striped Tables

|  |  |  |
| --- | --- | --- |
| **First Name** | **Last Name** | **Savings** |
| Peter | Griffin | $100 |
| Lois | Griffin | $150 |
| Joe | Swanson | $300 |

For zebra-striped tables, use the nth-child() selector and add a background-color to all even (or odd) table rows:

### Example

tr:nth-child(even) {background-color: #f2f2f2;}

## Table Color

The example below specifies the background color and text color of <th> elements:

|  |  |  |
| --- | --- | --- |
| **First Name** | **Last Name** | **Savings** |
| Peter | Griffin | $100 |
| Lois | Griffin | $150 |
| Joe | Swanson | $300 |

### Example

th {  
    background-color: #4CAF50;  
    color: white;  
}

## Responsive Table

A responsive table will display a horizontal scroll bar if the screen is too small to display the full content:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **First Name** | **Last Name** | **Points** | **Points** | **Points** | **Points** | **Points** | **Points** | **Points** | **Points** | **Points** | **Points** | **Points** | **Points** |
| Jill | Smith | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Eve | Jackson | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| Adam | Johnson | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 |

Add a container element (like <div>) with overflow-x:auto around the <table> element to make it responsive:

### Example

<div style="overflow-x:auto;">  
  
<table>  
... table content ...  
</table>  
  
</div>

## CSS Table Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [border](https://www.w3schools.com/cssref/pr_border.asp) | Sets all the border properties in one declaration |
| [border-collapse](https://www.w3schools.com/cssref/pr_border-collapse.asp) | Specifies whether or not table borders should be collapsed |
| [border-spacing](https://www.w3schools.com/cssref/pr_border-spacing.asp) | Specifies the distance between the borders of adjacent cells |
| [caption-side](https://www.w3schools.com/cssref/pr_tab_caption-side.asp) | Specifies the placement of a table caption |
| [empty-cells](https://www.w3schools.com/cssref/pr_tab_empty-cells.asp) | Specifies whether or not to display borders and background on empty cells in a table |
| [table-layout](https://www.w3schools.com/cssref/pr_tab_table-layout.asp) | Sets the layout algorithm to be used for a table |

## CSS Display/Visibility Properties

|  |  |
| --- | --- |
| **Property** | **Description** |
| [display](https://www.w3schools.com/cssref/pr_class_display.asp) | Specifies how an element should be displayed |
| [visibility](https://www.w3schools.com/cssref/pr_class_visibility.asp) | Specifies whether or not an element should be visible |

**Using width, max-width and margin: auto;**

As mentioned in the previous chapter; a block-level element always takes up the full width available (stretches out to the left and right as far as it can).

Setting the width of a block-level element will prevent it from stretching out to the edges of its container. Then, you can set the margins to auto, to horizontally center the element within its container. The element will take up the specified width, and the remaining space will be split equally between the two margins:

This <div> element has a width of 500px, and margin set to auto.

**Note:** The problem with the <div> above occurs when the browser window is smaller than the width of the element. The browser then adds a horizontal scrollbar to the page.

Using max-width instead, in this situation, will improve the browser's handling of small windows. This is important when making a site usable on small devices:

This <div> element has a max-width of 500px, and margin set to auto.

**Tip:** Resize the browser window to less than 500px wide, to see the difference between the two divs!

**All CSS Positioning Properties**

|  |  |
| --- | --- |
| **Property** | **Description** |
| [bottom](https://www.w3schools.com/cssref/pr_pos_bottom.asp) | Sets the bottom margin edge for a positioned box |
| [clip](https://www.w3schools.com/cssref/pr_pos_clip.asp) | Clips an absolutely positioned element |
| [left](https://www.w3schools.com/cssref/pr_pos_left.asp) | Sets the left margin edge for a positioned box |
| [position](https://www.w3schools.com/cssref/pr_class_position.asp) | Specifies the type of positioning for an element |
| [right](https://www.w3schools.com/cssref/pr_pos_right.asp) | Sets the right margin edge for a positioned box |
| [top](https://www.w3schools.com/cssref/pr_pos_top.asp) | Sets the top margin edge for a positioned box |
| [z-index](https://www.w3schools.com/cssref/pr_pos_z-index.asp) | Sets the stack order of an element |

**All CSS Overflow Properties**

|  |  |
| --- | --- |
| **Property** | **Description** |
| [overflow](https://www.w3schools.com/cssref/pr_pos_overflow.asp) | Specifies what happens if content overflows an element's box |
| [overflow-x](https://www.w3schools.com/cssref/css3_pr_overflow-x.asp) | Specifies what to do with the left/right edges of the content if it overflows the element's content area |
| [overflow-y](https://www.w3schools.com/cssref/css3_pr_overflow-y.asp) | Specifies what to do with the top/bottom edges of the content if it overflows the element's content area |