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# Lenguajes de marcas y Sistemas de gestión de la información

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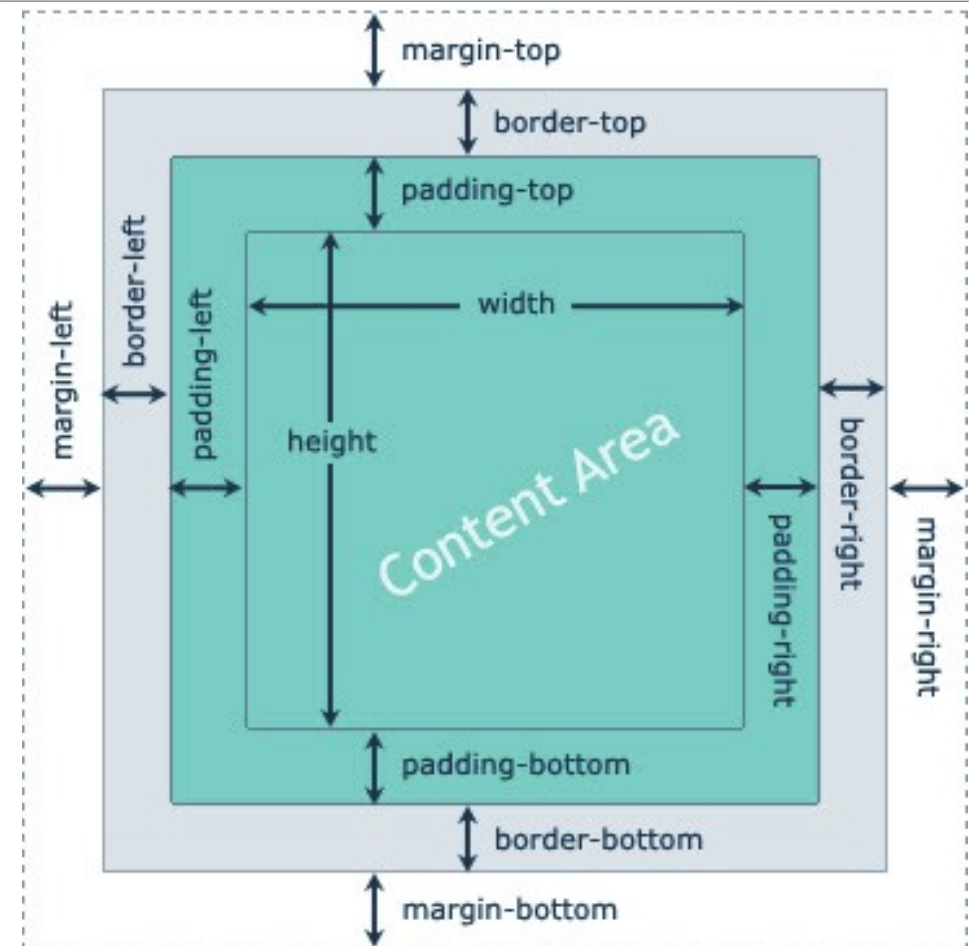
CSS: BOX MODEL



# DEFINICIÓN

Cada elemento HTML se compone de uno o varias cajas rectangulares a los que podemos asignar diferentes propiedades e interactuar entre sí.

Cada caja se compone de un **área de contenido** y varias áreas opcionales de **relleno**, **borde** y **margen**.



# ANCHO y ALTO DE LOS ELEMENTOS

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Cuando configuramos el ancho y alto de un elemento mediante las propiedades **width** y **height** solo se aplica al tamaño del **área de contenido**.

El espacio real que un elemento ocupa en la página se calcula como:

Dimensión	Propiedades CSS
Ancho	$\text{width} + \text{padding-left} + \text{padding-right} + \text{border-left} + \text{border-right} + \text{margin-left} + \text{margin-right}$
Alto	$\text{height} + \text{padding-top} + \text{padding-bottom} + \text{border-top} + \text{border-bottom} + \text{margin-top} + \text{margin-bottom}$

# EJEMPLO

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <title>CSS Box Formatting Model</title>
6 <style>
7   p {
8     width: 300px;
9     height: 200px;
10    padding: 15px;
11    border: 10px solid black;
12    margin: 20px auto;
13  }
14 </style>
15 </head>
16 <body>
17   <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.
    Nam eu sem tempor, varius quam at, luctus dui. Mauris magna
    metus, dapibus nec turpis vel, semper malesuada ante. Vestibulum
    id metus ac nisl bibendum scelerisque non non purus. Suspendisse
    varius nibh non aliquet sagittis. In tincidunt orci sit amet
    elementum vestibulum. Vivamus fermentum in arcu in aliquam.
    Quisque aliquam porta odio in fringilla. Vivamus nisl leo,
    blandit at bibendum eu, tristique eget.</p>
18 </body>
19 </html>
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nam eu sem tempor, varius quam at, luctus dui. Mauris magna metus, dapibus nec turpis vel, semper malesuada ante. Vestibulum id metus ac nisl bibendum scelerisque non non purus. Suspendisse varius nibh non aliquet sagittis. In tincidunt orci sit amet elementum vestibulum. Vivamus fermentum in arcu in aliquam. Quisque aliquam porta odio in fringilla. Vivamus nisl leo, blandit at bibendum eu, tristique eget.

# PADDING

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <title>Set Padding for All Sides At Once</title>
6 <style>
7   h1 {
8     padding: 50px; /* apply to all four sides */
9   }
10  h2 {
11    padding: 25px 75px; /* vertical | horizontal */
12  }
13  h3 {
14    padding: 25px 50px 75px; /* top | horizontal | bottom */
15  }
16  p {
17    padding: 25px 50px 75px 100px; /* top | right | bottom | left */
18  }
19  h1, h2, h3, p {
20    background: lime;
21  }
22 </style>
23 </head>
24 <body>
25   <h1>This is a heading</h1>
26   <h2>This is a simple paragraph of text.</h2>
27   <h3>This is a DIV element.</h3>
28   <p><strong>Note:</strong> Play with the padding property value to see
29   how it works.</p>
30 </body>
31 </html>
```

**This is a heading**

**This is a simple paragraph of text.**

**This is a DIV element.**

**Note:** Play with the padding property value to see how it works.

# MARGIN

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <title>Set Margin for All Sides At Once</title>
6 <style>
7   h1 {
8     margin: 50px; /* apply to all four sides */
9   }
10  h2 {
11    margin: 25px 75px; /* vertical | horizontal */
12  }
13  h3 {
14    margin: 25px 50px 75px; /* top | horizontal | bottom */
15  }
16  p {
17    margin: 25px 50px 75px 100px; /* top | right | bottom | left */
18  }
19  h1, h2, h3, p {
20    background: yellow;
21  }
22 </style>
23 </head>
24 <body>
25   <h1>This is a heading</h1>
26   <h2>This is a simple paragraph of text.</h2>
27   <h3>This is a DIV element.</h3>
28   <p><strong>Note:</strong> Play with the margin property value to see
29   how it works.</p>
30 </body>
31 </html>
```

**This is a heading**

**This is a simple paragraph of text.**

**This is a DIV element.**

**Note:** Play with the margin property value to see how it works.

# BORDER-STYLE

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