CSS3

CSS is the language we use to style a Web page.

What is CSS?

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS saves a lot of work. It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

CSS is used to define styles for your web pages, including the design, layout and variations in display for different devices and screen sizes.

```
CSS Syntax:

h1{

    color:red;
}

h1 => element selectors

color => property

red => value;

p {
    color: red;
    text-align: center;
}
```

How To Add/ Way CSS:

- Inline CSS
- Internal CSS
- External CSS

Inline CSS

An inline style may be used to apply a unique style for a single element.

Add the style attribute to the relevant element.

Ex: welcome

Internal CSS

An internal style sheet may be used if one single HTML page has a unique style.

The internal style is defined inside the <style> element, inside the head section.

```
<!DOCTYPE html>
<html>
<head>
<style>
body {
   background-color: linen;
}

h1 {
   color: maroon;
}

</style>
</head>
<body>

<h1>This is a heading</h1>
This is a paragraph.
</body>
</body>
</html>
```

External CSS

The external CSS is the CSS linked to an HTML file using the the tag.

How to Command the css

```
/* style */
```

CSS Comments

CSS comments are not displayed in the browser

Comments are ignored by browsers. A CSS comment is placed inside the <style> element, and starts with /* and ends with */

CSS selectors: A CSS selector selects the HTML element(s) you want to style.

Categories:

- Simple selectors
- Attribute selectors
- <u>Combinator selectors</u> (select elements based on a specific relationship between them)
- Pseudo-class selectors

Pseudo-elements selectors

Simple Selectors: - used to target specific HTML elements for style

These include selecting by:

```
    element name (e.g., h1)
    class (.class-Name)
    ID (#id-Name)
```

- 4. universal (* for all elements).
- 5. Grouping selectors (h1,p,ul)

Element Selectors (h1): The element selector selects HTML elements based on the element name.

```
Ex: h1, p, ul, li .... Etc.

p {
    text-align: center;
    color: red;
}
```

Class Selectors(.): The class selector selects HTML elements with a specific class attribute.

write a period (.) character, followed by the class name.

Ex:

<h1 class="center large">Red and center-aligned heading</h1>

}

ID Selectors (#): - The class selector selects HTML elements with a specific id attribute.

write a period (#) character, followed by the id name.

Ex:

<h1 id="bg-color ">Red and center-aligned heading</h1>

```
#bg-color {
    background-color:red;
```

** The id of an element is unique within a page, so the id selector is used to select one unique element! **

Class vs ID selectors

- Class Selector (.): Targets elements with a specified class attribute, allowing multiple elements to share the same styling.
- ID Selector (#): Targets a single element with a unique ID attribute, ensuring that styles are applied to one specific element on the page.

.____

Universal Selector (*): Selects all elements on the page and applies the same style universally.

Fx:

```
* {
    text-align: center;
    color: blue;
}
```

Group selectors (,): The grouping selector selects all the HTML elements with the same style definitions.

```
h1 {
  text-align: center;
  color: red;
}

h2 {
  text-align: center;
  color: red;
}

p {
  text-align: center;
  color: red;
}

color: red;
}

color: red;
}
```

CSS Attribute Selector

Attribute Selector allows you to select elements based on the presence, value, or specific characteristics of their attribute.

1. [attribute] Selector: with the specified attribute

```
a[href] { color: 2px solid red; }
```

2. [attribute="value"]: exactly equal to the specified value.

```
input[type="submit"] { background-color: green;
color: white; }
```

3. [attribute~="value"]: one of the words matches the specified value.

```
div[class~="green"] { border: 3px solid red; }
<div class="box large green"></div>
<div class="box small red"></div>
```

```
4.[attribute^="value"]
                             starts with the specified value.
a[href^="https"] { color: darkgreen; }
<a href="https://example.com">Visit Example</a>
5.[attribute$="value"]
                             ends with the specified value
div[class$="box"] {
border: 2px solid blue;
background-color: lightgray;
}
a[href*="google"]{ inbetween letters
   background-color: darkblue;
   color: red;
<div class="small-box">This is a small box</div>
<div class="large-box">This is a large box</div>
<div class="circle">This is not a box</div>
```

CSS Combinators

It defines the relationship between two selectors.

Types of CSS Combinators

- Descendant combinator (space) parent child
- Child combinator (>)parent child
- Next sibling combinator (+) brothers -sisiter
- Subsequent-sibling combinator (~)brothers -sisiter

```
Descendant Selectors
Paragraph 1 in the div.
                               (space): selects all
                               elements that are
Paragraph 2 in the div.
                               descendants of a
                      on element).
                               specified element.
Paragraph 3 in the div.
                               (parent and all childs
                               concepts )
Paragraph 4. Not in a div.
                               Ex:
Paragraph 5. Not in a div.
                               <style>
                       div p {
                        background-color: yellow;
    </style>
    <div>
    Paragraph 1 in the div.
    Paragraph 2 in the div.
    <section>
        Paragraph 3 in the div.
         </section>
    </div>
    Paragraph 4. Not in a div.
    Paragraph 5. Not in a div.
```

Child Selectors (>): selects all elements that are the children
of a specified element. (Parent and only childs concepts)

Ex:

<style>
div > p {
 background-color: yellow;
}

</style>

```
Paragraph 1 in the div.
                     <div>
Paragraph 2 in the div.
                      Paragraph 1 in the div.
Paragraph 3. After a div.
                      Paragraph 2 in the div.
                      <section>
Paragraph 4. After a div.
                       Paragraph 3 in the div (inside a
                     section element).
Paragraph 5 in the div.
                      </section>
Paragraph 6 in the div.
                      Paragraph 4 in the div.
                     </div>
Paragraph 7. After a div.
Paragraph 8. After a div.
                     Next Sibling Selectors (+) select an
   element that is directly after another specific element.
   (sibling concepts)
   Sibling elements must have the same parent element.
   "adjacent" means "immediately following".
   Ex:
                              <style>
       div + p {
            background-color: yellow;
        </style>
            <vib>
             Paragraph 1 in the div.
             Paragraph 2 in the div.
            </div>
            Paragraph 3. After a div.
            Paragraph 4. After a div.
            <div>
             Paragraph 5 in the div.
             Paragraph 6 in the div.
            </div>
            Paragraph 7. After a div.
            Paragraph 8. After a div.
```

```
Paragraph 1.
             Subsequent-sibling Combinator (~) selects
Paragraph 2.
             all elements that are next siblings of a
             specified element, dilt
Paragraph 3.
             Ex:
Some code.
             <style>
             div \sim p 
Paragraph 4.
              background-color: yellow;
             </style>
  Paragraph 1.
  <div>
   Paragraph 2.
  </div>
  Paragraph 3.
  <code>Some code.</code>
  Paragraph 4.
  ______
  ______
  =====
```

CSS Colors

Colors are specified using predefined color names, or RGB, HEX, HSL, RGBA, HSLA values. (Text colors)

Color Names

Ex: red, green, yellow, blue, white, black

RGB Value

```
rgb (red, green, blue)
```

Each parameter (**red**, **green**, **and blue**) defines the intensity of the color between 0 and 255.

To display black, rgb (0, 0, 0).

To display white, rgb(255, 255, 255).

RGBA Value

RGBA color values are an extension of RGB color values with an **alpha** channel - **which specifies the opacity for a color.**

```
rgba(red, green, blue, alpha)
```

The alpha parameter is a number between 0.0 (fully transparent) and 1.0 (not transparent at all)

```
Ex:
```

```
rgba (255,99,71,0.5);
0.1,0.2,0.3,0.4,0.5,0.6,0.7,0.8,0.9,1
```

Opacity / Transparency

The opacity property specifies the opacity/transparency of an element

CSS HEX Colors

A hexadecimal color is specified with: #RRGGBB, where the RR (red), GG (green) and BB (blue) hexadecimal integers specify the components of the color.

#rrggbb hexadecimal values between 00 and ff (same as decimal 0-255).

To display black, set all values to 00, like this: #000000.

To display white, set all values to ff, like this: #ffffff

Sometimes you will see a 3-digit hex code in the CSS source.

```
#fc9; /* same as #ffcc99 */ #f0f; /* same as #ff00ff */ #b58; /* same as #bb5588 */
```

HEXA

CSS HSL Colors HSL stands for hue, saturation, and lightness.

hsl(hue, saturation, lightness)

Hue is a degree on the color wheel from 0 to 360. 0 is red, 120 is green, and 240 is blue.

Saturation is a percentage value. 0% means a shade of gray, and 100% is the full color.

Lightness is also a percentage. 0% is black, 50% is neither light or dark, 100% is white

Ex: hsl(0, 100%, 50%)

hsla(hue, saturation, lightness, alpha)

The alpha parameter is a number between 0.0 (fully transparent) and 1.0 (not transparent at all)

Backgrounds

The CSS background properties are used to add background effects for elements. background-color

- background-image
- background-repeat
- background-attachment
- background-position
- background

```
body {
  background-color: lightblue;
}
```

Opacity / Transparency

The opacity property specifies the opacity/transparency of an element

background-image

The background-image property specifies an image to use as the background of an element.

By default, the image is repeated so it covers the entire element.

```
body {
          background-image: url("paper.gif");
}
```

background-repeat

By default, the background-image property repeats an image both horizontally and vertically.

```
background-repeat: repeat-x;
background-repeat: repeat-y;
background-repeat: no-repeat;
```

background-position

The **background-position** property is used to specify **the position of the background image.**

```
left top
left center
left bottom
right top
right center
right bottom
center top
center center
center bottom

x% y% - 10% 40% .

xpos ypos - 50px 100px
```

background-attachment

The background-attachment property specifies whether the background image should scroll or be fixed

background-attachment: scroll; image will scroll by default

background-attachment: fixed; image will fixed

CSS background - Shorthand

background-size

The background-size property specifies the size of the background images.

the keyword syntax ("auto", "cover" and "contain")

background-size: 100% 100%;

background-size: contain;

background-size: cover;

Background-clip

The background-clip property defines how far the background (color or image) should extend within an element.

background-clip: border-box | padding-box | content-box |
initial | inherit;

The background-origin property specifies the origin position (the background positioning area) of a background image.

padding-box - By Default.

border-box - The background image starts from the upper left corner of the border

content-box - The background image starts from the upper left corner of the content

Gradient-colors

CSS gradients let you display smooth transitions between two or more specified colors.

CSS defines three types of gradients:

- Linear Gradients (goes down/up/left/right/diagonally)
- Radial Gradients (defined by their center)
- Conic Gradients (rotated around a center point)

background-image: linear-gradient(direction, color-stop1, color-stop2, ...);

Direction - Top to Bottom (this is default)

background-image: linear-gradient(to right, red , yellow);

Direction - Diagonal

You can make a gradient diagonally by specifying both the horizontal and vertical starting positions.

Syntax

background-image: linear-gradient(angle, color-stop1, color-stop2);

background-image: linear-gradient(red 10%, yellow, green);

background-image: linear-gradient(to right, red,orange,yellow,green,blue,indigo,violet); background-image: repeating-linear-gradient(red, yellow 10%,
green 20%);

CSS Radial Gradients

A radial gradient is defined by its center.

To create a radial gradient you must also define at least two color stops.

Syntax

```
background-image: radial-gradient(shape size at position, start-color, ..., last-color);
```

background-image: radial-gradient(closest-side at 60% 55%, red, yellow, black); x -axis y- axis

background-image: radial-gradient(farthest-side at 60% 55%, red, yellow, black);

background-image: radial-gradient(closest-corner at 60% 55%, red, yellow, black);

background-image: radial-gradient(farthest-corner at 60% 55%, red, yellow, black);

background-image: repeating-radial-gradient(red, yellow 10%,
green 15%);

CSS Conic Gradients

A conic gradient is a gradient with color transitions rotated around a center point.

To create a conic gradient you must define at least two colors.

Syntax

```
background-image: conic-gradient([from angle]
[at position,] color [degree], color [degree], ...);
```

By default, angle is 0deg and position is center.

If no *degree* is specified, the colors will be spread equally around the center point.

```
background-image: conic-gradient(red, yellow, green);
background-image: conic-gradient(red, yellow, green, blue,
black);
background-image: conic-gradient(red 45deg, yellow 90deg,
green 210deg);
background-image: conic-gradient(red, yellow, green, blue,
black);
 border-radius: 50%;
background-image: conic-gradient(red 0deg, red 90deg,
yellow 90deg, yellow 180deg, green 180deg, green 270deg,
blue 270dea);
 border-radius: 50%;
background-image: conic-gradient(from 90deg, red, yellow,
green);
background-image: conic-gradient(at 60% 45%, red, yellow,
green);
background-image: repeating-conic-gradient(red 10%, yellow
20%);
 border-radius: 50%;
```

The **background-blend-mode Property** defines how the element's background image should blend with each other and with the element's background-color.

```
background-blend-mode:
normal|multiply|screen|darken|lighten|
color-dodge|saturation|difference|luminosity|overlay;
```

CSS Units (Sizing concepts)

CSS has several different units for expressing a length.

CSS properties take "length" values, such as width, margin, padding, font-size, etc.

There are two types of length units: **absolute** and **relative**.

Absolute Units

The absolute length units are fixed

- 1. Cm centimetres,
- 2. mm millimetres,
- 3. in inches (1in = 96px = 2.54cm)
- 4. px * pixels (1px = 1/96th of 1in)
- 5. pt points (1pt = 1/72 of 1in)
- 6. pc picas (1pc = 12 pt)

Relative Units

- 7. Em Relative to the Parent Element
- 8. Rem Relative to the root element r=> root element
- 9. Vw Relative to the width of the viewport*
- 10. Vh Relative to 1% of the height of the viewport*
- 11. Vmin Relative to 1% of viewport's* smaller dimension
- 12. Vmax Relative to 1% of viewport's* larger dimension
- 13. % Relative to the parent element

CSS Margins (Spacing concepts)

Margins are used to **create space around elements**, **outside** of any **defined borders**.

each side of an element (top, right, bottom, and left).

- margin-top
- margin-right
- margin-bottom
- margin-left

Values

auto - the browser calculates the margin

length - specifies a margin in px, pt, cm, etc.

% - specifies a margin **in** % **of the width** of the containing element

inherit specifies that the margin should be inherited from **the parent element**

```
p {
  margin-top: 100px;
  margin-bottom: 100px;
  margin-right: 150px;
  margin-left: 80px;
}
```

Margin - Shorthand

- margin: 25px 50px 75px 100px;
 - top margin is 25px
 - o right margin is 50px
 - bottom margin is 75px
 - left margin is 100px
- margin: 25px 50px 75px;
 - top margin is 25px
 - right and left margins are 50px
 - bottom margin is 75px
- margin: 25px 50px;
 - top and bottom margins are 25px
 - right and left margins are 50px
- margin: 25px;
 - all four margins are 25px

```
width: 300px; margin: auto;
div {
```

```
border: 1px solid red;
 margin-left: 100px;
p.ex1 {
 margin-left: inherit;
```

CSS Padding

Padding is used to create space around an element's content, inside of any defined borders.

each side of an element (top, right, bottom, and left).

- padding-top
- padding-right
- padding-bottom
- padding-left

Values

auto - the browser calculates the margin

length - specifies a margin in px, pt, cm, etc.

% - specifies a margin in % of the width of the containing element

inherit specifies that the margin should be inherited from the parent element

```
div {
 padding-top: 50px;
 padding-right: 30px;
 padding-bottom: 50px;
 padding-left: 80px;
}
```

Padding - Shorthand

padding: 25px 50px 75px 100px;

- top padding is 25px
- o right padding is 50px
- bottom padding is 75px
- left padding is 100px

• padding: 25px 50px 75px;

- top padding is 25px
- right and left paddings are 50px
- bottom padding is 75px
- padding: 25px 50px;
 - top and bottom paddings are 25px
 - right and left paddings are 50px
- padding: 25px;
 - all four paddings are 25px

Padding and Element Width box-sizing: border-box; (width + padding size will increase so add border-box)

CSS Borders

The CSS border properties allow you to specify the style, width, and color of an element's border.

CSS Border Style

border-style property specifies what kind of border to display.

- dotted Defines a dotted border
- dashed Defines a dashed border
- solid Defines a solid border
- double Defines a double border
- groove Defines a 3D grooved border. The effect depends on the border-color value
- ridge Defines a 3D ridged border. The effect depends on the border-color value
- inset Defines a 3D inset border. The effect depends on the border-color value
- outset Defines a 3D outset border. The effect depends on the border-color value
- none Defines no border
- hidden Defines a hidden border

***border-style property can have from one to four values (for the top border, right border, bottom border, and the left border).

The border-width property specifies the width of the four borders. set as a specific size (in px, pt, cm, em, etc) three pre-defined values: thin, medium, or thick:

```
border-width: 25px 10px 4px 35px;
```

The border-color property is used to set the color of the four borders.

```
border-color: red green blue yellow;
p {
 border-top-style: dotted;
 border-right-style: solid;
 border-bottom-style: dotted;
 border-left-style: solid;
}
p {
 border-style: dotted solid double dashed;
/* Three values */
p {
 border-style: dotted solid double;
}
/* Two values */
p {
 border-style: dotted solid;
}
/* One value */
p {
 border-style: dotted;
CSS Border – Shorthand
```

```
p {
  border: 5px solid red;
}

p {
  border-left: 6px solid red;
}

The border-radius property is used to add rounded borders to an element:

p {
  border: 2px solid red;
  border-radius: 5px;
}
```

CSS Outline

An outline is a line drawn outside the element's border.

- outline-style dotted, dashed. ref in borders
- outline-color red, green, yellow
- outline-width thin, thick, medium
- outline-offset adds space between an outline and the edge/border of an element
- outline outline: 5px solid yellow;

CSS Text

Text Color - color

Text Alignment and Text Direction

 text-align - property is used to set the horizontal alignment of a text.

left alignment is default, text-align: center, left, right, justify

- text-align-last right, center, left, justify
- direction
- unicode-bidi

```
p {
          direction: rtl;
          unicode-bidi: bidi-override;
}
```

 vertical-align - property sets the vertical alignment of an element. (img)

Baseline, text-top, text-bottom, sub, super

Text Decoration - property is used to add a decoration line to text.

- text-decoration-line overline, line-through, underline, text-decoration-line: overline underline
- text-decoration-color red, green
- text-decoration-style solid, double, dotted, dashed, wavy
- text-decoration-thickness 5px
- text-decoration text-decoration: underline red double 5px;
- text-decoration: none;

Text Transformation - property is used to specify uppercase and lowercase letters in a text.

text-transform: uppercase, lowercase, capitalize;

Text Spacing

- text-indent: 50px property is used to specify the indentation of the first line of a text
- letter-spacing: 2px, -2px; = property is used to specify the space between the characters in a text.
- line-height:0.8, 1.8 => property is used to specify the space between lines:
- word-spacing: 10px, -2px => property is used to specify the space between the words in a text.
- white-space: nowrap property specifies how whitespace inside an element is handled.

Text Shadow

- The text-shadow property adds shadow to text.
- text-shadow: 2px 2px; horizontal shadow (2px) and the vertical shadow (2px):
- text-shadow: 2px 2px red; (red) to the shadow:
- text-shadow: 2px 2px 5px red; a blur effect (5px) to the shadow:
- text-shadow: 0 0 3px #ff0000, 0 0 5px #0000ff;
- box-shadow

CSS Fonts – important

- 1. Serif fonts have a small stroke at the edges of each letter. They create a sense of formality and elegance.
- 2. Sans-serif fonts have clean lines (no small strokes attached). They create a modern and minimalistic look.
- 3. Monospace fonts here all the letters have the same fixed width. They create a mechanical look.
- 4. Cursive fonts imitate human handwriting.
- 5. Fantasy fonts are decorative/playful fonts.

Difference Between Serif and Sans-serif Fonts



Serif	Times New Roman Georgia Garamond
Sans-serif	Arial Verdana Helvetica

Monospace	Courier New Lucida Console Monaco
Cursive	Brush Script MT Lucida Handwriting
Fantasy	Copperplate Papyrus

font-family property to specify the font of a text.

font-style property is mostly used to specify italic text. Normal , italic , oblique

font-weight property **specifies the weight of** a font: normal, bold ,bolder,lighter, 100,200,300,400,500,600,700,800,900

font-variant property specifies whether or not a text should be displayed in a small-caps font.

small-caps font, all lowercase letters are converted to uppercase letters. Normal, small-caps;

font-size property sets the size of the text.

font: italic small-caps bold 12px/30px Georgia, serif;

- 1 font-style
- 2 font-variant
- 3 font-weight
- 4 font-size
- 5 font-family

shorthand

Google Fonts - take fonts from google

The CSS height and width properties are used to set the height and width of an element.

The CSS max-width property is used to set the maximum width of an element.

CSS Box Model

In CSS, the term "box model" is used when talking about design and layout.

- 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

• -

CSS Pseudo-classes selectors

Syntax:

```
selector:pseudo-class {
  property: value;
}
a - hyperlink , ancher, a, link
a:link {
  background-color: yellow;
}
a:visited {
  background-color: cyan;
}
```

```
a:hover {
 background-color: lightgreen;
a:active {
 background-color: hotpink;
a:link, a:visited {
 background-color: #f44336;
 color: white;
}
a:hover, a:active {
 background-color: red;
}
a.highlight:hover {
 color: #ff0000;
}
:first-child pseudo-class matches a specified element
that is the first child of another element.
:checked
input:checked
option:checked
input[type="radio"]:checked {
 box-shadow: 0 0 5px 3px blue;
input[type="checkbox"]:checked {
 box-shadow: 0 0 5px 3px maroon;
option:checked {
 color: blue;
 background-color: pink;
```

```
input:optional {
 background-color: lightgreen;
}
input:required {
 background-color: pink;
 border-color: red;
}
:nth-child()
li:nth-child(2) {
 background-color: lightgreen;
p:nth-child(odd) {
 background-color: red;
p:nth-child(even) {
 background: lightgreen;
p:nth-child(3n+1) { n=>0,1,2,3,4,5
 background-color: red;
p:nth-child(3n-1) {
 background-color: red;
}
p:nth-last-child(3n+0) {
 background-color: red;
}
```

Cursor

```
<span style="cursor: auto">auto</span><br>
<span style="cursor: crosshair">crosshair</span><br>
<span style="cursor: default">default</span><br>
<span style="cursor: e-resize">e-resize</span><br>
```

```
<span style="cursor: help">help</span><br>
<span style="cursor: move">move</span><br>
<span style="cursor: n-resize">n-resize</span><br>
<span style="cursor: ne-resize">ne-
resize</span><br>
<span style="cursor: nw-resize">nw-
resize</span><br>
<span style="cursor: pointer">pointer</span><br>
<span style="cursor: progress">progress</span><br>
<span style="cursor: s-resize">s-resize</span><br>
<span style="cursor: se-resize">se-resize</span><br>
<span style="cursor: sw-resize">sw-
resize</span><br>
<span style="cursor: text">text</span><br>
<span style="cursor: w-resize">w-resize</span><br>
<span style="cursor: wait">wait</span>
CSS Lists
list-style-type: circle, square, upper-roman, lower-
alpha
list-style-image: url('sqpurple.gif');
list-style-position: outside, inside;
 list-style-type: none;
list-style: square inside url("sqpurple.gif"); shorthand
CSS Layout - The display Property
The display property is the most important CSS property
for controlling layout.
```

display: inline;

display: inline-block;

display:flex;

display: block;

display:grid;

the element will still take up the same space as before. The element will be hidden, but still affect the layout:

```
visibility: hidden;
```

The position property specifies the type of positioning method used for an element (static, relative, fixed, absolute or sticky).

- Static normal
- relative is positioned relative to its normal position.
- Fixed is positioned relative to the viewport, which means it always stays in the same place even if the page is scrolled.
- Absolute document body,
- sticky -is positioned based on the user's scroll position.

Elements are then positioned using the top, bottom, left, and right properties.

```
top: 80px;
right: 0;
left, right
```

The z-index property specifies the stack order of an element.

CSS Pseudo-elements

```
selector::pseudo-element {
  property: value;
}
```

::first-line pseudo-element is used to add a special style to the first line of a text.

::first-letter pseudo-element is used to add a special style to the first letter of a text. ::before pseudo-element can be used to insert some content before the content of an element. Content: url()

::after pseudo-element can be used to insert some content after the content of an element.

::marker pseudo-element selects the markers of list items.

::selection pseudo-element matches the portion of an element that is selected by a user.

::selection: color, background, cursor, and outline.

CSS Height, Width and Max-width

The CSS height and width properties are used to set the height and width of an element.

The CSS max-width property is used to set the maximum width of an element.

The height and width properties may have the following values:

- auto This is default. The browser calculates the height and width
- length Defines the height/width in px, cm, etc.
- % Defines the height/width in percent of the containing block
- initial Sets the height/width to its default value
- inherit The height/width will be inherited from its parent value