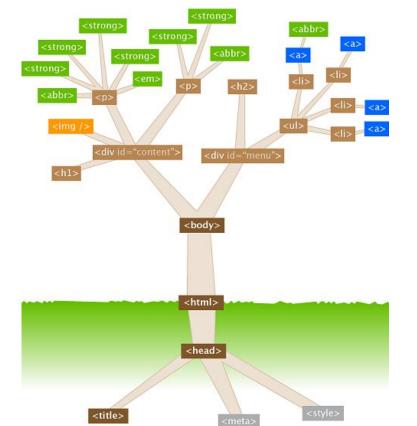
CSS – Properties

the css coding elements





Agenda

- Properties
 - Positioning (repetition)
 - Border
 - Colors
 - Text/Fonts
- Units
- Questions

Learning Objectives

- You know the color properties.
- You are familiar with font/text properties.
- You know the existing css units

CSSProperties

https://www.w3schools.com/cssref/default.asp

CSS Properties can be grouped

Easy to remember

Groups

- Colors
- Text formatting
- Positioning
- Layouting properties
- Animations
- Transformations
- o etc.

text formatting

Just like in MS Office Word

Formatting text Adjusting fonts Changing colors

Property	Description
color	Sets the color of text
direction	Specifies the text direction/writing direction
letter-spacing	Increases or decreases the space between characters in a text
<u>line-height</u>	Sets the line height
text-align	Specifies the horizontal alignment of text
text-decoration	Specifies the decoration added to text
text-indent	Specifies the indentation of the first line in a text-block
text-shadow	Specifies the shadow effect added to text
text-transform	Controls the capitalization of text
text-overflow	Specifies how overflowed content that is not displayed should be signaled to the user
unicode-bidi	Used together with the <u>direction</u> property to set or return whether the text should be overrid languages in the same document
vertical-align	Sets the vertical alignment of an element
white-space	Specifies how white-space inside an element is handled
word-spacing	Increases or decreases the space between words in a text

nderline overline line-through blink inherit spitalize uppercase lowercase r px value nt-family [, font or font-family]	block elements h1h6, p, li, etc. mostly with a (anchor) elements any element that contains text block elements h1h6, p, li, etc. any element that contains text any element that contains text
r px value nt-family [, font or font-family]	any element that contains text block elements h1h6, p, li, etc. any element that contains text any element that contains text
r px value nt-family [, font or font-family]	block elements h1h6, p, li, etc. any element that contains text any element that contains text
r px value nt-family [, font or font-family]	any element that contains text any element that contains text
nt-family [, font or font-family]	any element that contains text
value	any element that contains text
italic oblique	any element that contains text
bold	any element that contains text
BB (Red, Green, Blue hex values)	any element with a background
ge url]")	mostly with body
epeat-x repeat-y no-repeat	mostly with body
er right top center bottom	mostly with body
121E. L. 20	
n	ge url]") repeat-x repeat-y no-repeat iter right top center bottom

colors

look & feel, schema, eye catching

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.

Color models



The color of **lights**, combines **Red**, **Green** and **Blue**, mainly used for screens and used in PowerPoint.



The color of pigment, paints and inks, combines Cyan, Magneta, Yellow and Black, used for print.



A subset of the RGB model, expresses colors in terms of **hue**, **saturation** and **luminosity**, used in PowerPoint.



An extension of the RGB model using hexadecimal numbers to define colors for HTML code.



The pure color.



The **lightness** (added white) or **darkness** (added black) of a hue.



The **intensity** of a hue (also called chroma).



hue, saturation, brightness

Colors in CSS

- Names
- Hexadecimal
- RGB and RGBA
- HSL and HSLA

Black	#CF0000	rgb(0, 0, 0)	hsl(0, 0%, 100%); -
Red	#FF0000	rgb(255, 0, 0)	hsl(0, 100%, 50%);

rgb(128, 0, 0)

rgb(255, 255, 0)

RGB Color Code

HSL Color code

hsl(0, 100%, 25%);

hsl(50, 100%, 50%);

CMYK

#800000

#FFFF00

Hex Color Code

Color Name

Maroon

Yellow

		原色大辞典 和色大辞典 洋	色大辞典 web216 パステルカラー ビビッ	ドカラー メトロカラー 新着色 並べ方 🗇 🕖
black	aliceblue	darkcyan	lightyellow	coral
#000000	#f0f8ff	#008b8b	#ffffe0	#ff7f50
dimgray	lavender	teal	lightgoldenrodyellow	tomato
#696969	#e6e6fa	#008080	#fafad2	#ff6347
gray	lightsteelblue	darkslategray	lemonchiffon	orangered
#808080	#b0c4de	#2f4f4f	#fffacd	#ff4500
darkgray	lightslategray	darkgreen	wheat	red
#a9a9a9	#778899	#006400	#f5deb3	#160000
silver	slategray	green	burlywood	crimson # dc143c
#c0c0c0	#708090	#008000	#deb887	
lightgrey	steelblue	forestgreen	tan	mediumvioletred
#d3d3d3	#4682b4	#228b22	#d2b48c	#c71585
gainsboro	royalblue	seagreen	khaki	deeppink
#dcdcdc	#4169e1	#2e8b57	#f0e68c	#ff1493
whitesmoke	midnightblue	mediumseagreen	yellow	hotpink
#f5f5f5	#191970	#3cb371	#ffff00	#ff69b4
white	navy	mediumaquamarine	gold	palevioletred
#ffffff	#000080	#66cdaa	#ffd700	#db7093
snow	darkblue	darkseagreen	orange	pink
#fffafa	#00008b	#8fbc8f	#ffa500	#ffc0cb
ghostwhite	mediumblue	aquamarine	sandybrown	lightpink
#f8f8ff	#0000cd	#7fffd4	#f4a460	#ffb6c1
floralwhite	blue	palegreen	darkorange	thistle
#fffaf0	#0000ff	#98fb98	#ff8c00	#d8bfd8
linen	dodgerblue	lightgreen	goldenrod	magenta
#faf0e6	#1e90ff	#90ee90	#daa520	#ff00ff
antiquewhite	cornflowerblue	springgreen	peru	fuchsia
#faebd7	#6495ed	#00ff7f	#cd853f	#ff00ff
papayawhip	deepskyblue	mediumspringgreen	darkgoldenrod	violet
#ffefd5	#00bfff	#00fa9a	#b8860b	#ee82ee

There are 140 safe color names!

CSS Units

Units

Measure your distance, width, height....

- In the 3D world, we do have x, y and z coordinates, distances, lengths, etc.
- We do need units to define uniformly those measures.
- CSS is offering two types of units
 - absolute units
 - relative units

Absolute units

exactly the value

Absolute units are fixed and the defined value is measured the same on screens and devices (almost).

Recommended for print layouts.

- mm
- cm
- in (inches, 96px = 2.54cm)
- px (pixel, 1/96 of 1in)
- pt (points, 1/72 of 1 in)
- pc (picas, 12pt)

Relative units

The values are adjusted to another reference point. It can scale better in the screen.

Unit	Description
em	Relative to the font-size of the element (2em means 2 times the size of the current font)
ex	Relative to the x-height of the current font (rarely used)
ch	Relative to width of the "0" (zero)
rem	Relative to font-size of the root element
vw	Relative to 1% of the width of the viewport*
vh	Relative to 1% of the height of the viewport*
vmin	Relative to 1% of viewport's* smaller dimension
vmax	Relative to 1% of viewport's* larger dimension
%	Relative to the parent element

Additional Resources

- https://developer.mozilla.org/en-US/docs/Web/CSS/Reference?retiredLocale=tr
- https://www.w3schools.com/cssref/
- https://www.youtube.com/watch?v=Qf-wVa9y9V4

Questions?