

M	T	W	T	F	S
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31					

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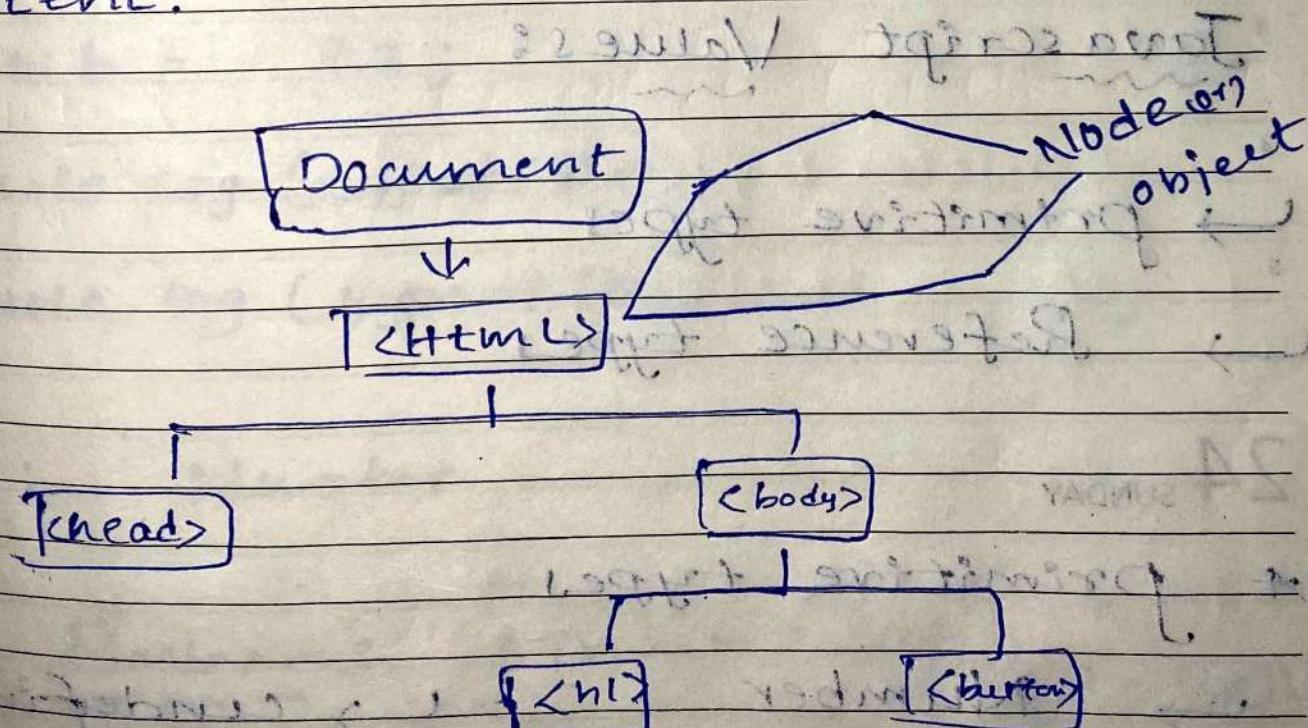
WK 17 • 112-253

HTML DOM:

Tree structured representation

of HTML Document Created by the browser.

It allows Javascript to change the document, structure, style and content.



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WK 17 • 113-252

M	T	W	T	F	S
4	5	6	7	1	2
11	12	13	14	8	9
18	19	20	21	15	16
25	26	27	28	29	30

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Document object:

: MOD INATH

It is the entry point of the DOM

To access any HTML element,

you should always start with

accessing the document object

Javascript Values:

→ primitive types

→ Reference types

24

SUNDAY

* primitive types

→ Number

→ Boolean

→ String

→ undefined

M	T	W	T	F	S
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31					

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WK 18 • 115-250

→ Number :

All numbers are of Number type.

(operator `typeof()` is used to know the type of value assigned)

Code :

Let `a = 900;`

Let `b = 9.2;`

`Console.log(typeof(a));`

`Console.log(typeof(b));`

O/P : Number

→ Boolean : (True or False)

Let `a = false;`

`Console.log(typeof(a));`

`Console.log(typeof(b));`

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M	T	W	T	F	S
4	5	6	7	8	9
11	12	13	14	15	16
18	19	20	21	22	23
25	26	27	28	29	30

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String:

String is a stream of characters.

String should be enclosed with

* Single quotes → 'Hello'

* Double quotes → "Hello"

* Backticks → `Hello`

Code:

Console.log(("Hello"));

OP: Hello

undefined

If a value is not assigned to the variable then it takes undefined as its value.

In JS undefined refers the value not being assigned.

M	T	W	T	F	S
1	2	3	4	5	6
8	9	10	11	12	13
15	16	17	18	19	20
22	23	24	25	26	27
29	30	31			

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WK 18 • 117-248

Code :

let age; number assigned to

console.log('age'); 25 20 etc

→ parseint is used to convert
String into integer (number to)

Conditional statements;

Conditional statements allow

you to execute a block of code
 only when the specific condition

is true.

if (condition A) {

}

else if (condition B) {

}

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M	T	W	T	F	S	S
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

9 Random:

10 To generate random numbers

11 we use ~~is~~ "Random" (in ~~random~~)

12 Code: at line 7 in ~~random~~

1 Let randomNumber = Math.random()

2 console.log (randomNumber)

5 HTML Element

6 Input Element

Creates interactive Controls
in order to accept the data
from the user.

M	T	W	T	F	S
1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31					

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Different types of input:

- * Text
- * Date
- * Password
- * Radio
- * Checkbox

Text input

Code:

<body>

<p> Enter your Name: </p>

<input type="text"/>

<p> Enter your password </p>

<input type="password"/>

</body>

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30

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WK 18 • 120-245

M	T	W	T	F	S
4	5	6	7	8	9
11	12	13	14	15	16
18	19	20	21	22	23
25	26	27	28	29	30

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Comparison Operator:

Loose vs Strict equal to ($==$ vs $= =$)

Loose equal to ($==$)

Strict Equal to ($= =$)

Loose Equality Compares

Strict Equality

two values for equality Compares two

but doesn't Compare

values for

types of values.

including types

of values

< strud >

Data structures:

01 SUNDAY

Data structures allow us to

store and organize data efficiently.

This will allow us to easily access and perform operations on the data.

2022

F	S
2	3
9	10
16	17
23	24
30	11
	18
	25

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WK 19 • 122-243

02

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In JS, we have built-in data structures like:

Arrays

• Array

objects

• Map

• Set

Array:

Array holds an ordered sequence of items.

→ It can hold all datatypes.

Code:

Let Myarray = [5, "six", 2, 8.2];

03

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M	T	W	T	F	S	S
30	31					
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

* We can manipulate array using
inbuilt methods.

→ Array length?

Let myArray = [5, "six", 2, 8.2];
Let lengthOfArray = myArray.length;
Console.log (lengthOfArray)

Array Methods:

* The push() method adds new items to the end of the Array.

Code:

Let myArray = [5, "six", 2, 8.2];
myArray.push(true);
Console.log(myArray)

2022

o.p. [5, "six", 2, 8.2, true]

S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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WK 19 • 124-241

04

Pop()

The `pop()` method removes the last item of an array, and returns that item.

Code: `(optional) removes the last item`

let Myarray = [5, 'six', 2, 8:2]

myarray.pop(8:2)

Console.log(myarray)

O.P : [5, 'six', 2]

"Hello" : string

05

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WK 19 • 125-240

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M	T	W	T	F	S	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

Object :-

9 ~ ~

10

An object is a collection of

11

Properties.

12

→ A property is an association

1

between a name (or key) and the

2

Value.

3

(key - value) pairs

4

Teja (noSiripuram, 930140)

5

{ name : "Teja", age : 20 }

6

Code :

7

Let person = {

8

name : "Rahul",

9

age : 28

10

};

11

Console.log(person);

2022

M	T	W	T	F	S
1	2	3	4		
5	6	7	8	9	10
13	14	15	16	17	18
20	21	22	23	24	25
27	28	29	30		

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WK 19 • 126-239

06

keys are also called identifiers

A valid identifier should follow the below rules:

→ It can contain alphanumeric characters; and \$.

→ It cannot start with a number.

name ✓

12name ✗

\$ name ✓

name.12 ✗

-name ✓

name ✓

* To use invalid identifier as key we have to specify them in quotes.

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07

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M	T	W	T	F	S	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

Accessing object properties:

→ Dot Notation

→ Bracket Notation []

Dot Notation

```
let person = { . }
```

name : "Rahul",

```
}
```

Console.log(person.name)

Bracket Notation

```
let person = {
```

name : "Rahul",

```
}
```

Console.log(person['name'])

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* By Using Bracket Notation
we can access both valid
and invalid values in the
property.

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S	M	T	W	T	F	S
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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09

WK 20 • 129-236

Object Destructuring:

To unpack properties from

objects, we use Object Destructuring.

Modifying Objects

Dot Notation:

Bracket Notation

```
let person = {
```

```
  name: "Rahul",
```

```
  age: 28
```

```
};
```

```
person.name = "Abhi";
```

```
Console.log(person.name);
```

10

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WK 20 • 130-235

M	T	W	T	F	S	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

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9 Bracket Notation

10 let person = {
 name: "Rahul",
 age: 28
};

11 name: "Rahul"
 age: 28

12 };

13 person['name'] = "Abhi";

14 console.log(person['name']);

3

4 Methods:

5 A Javascript Method is a

6 property Containing a function

7 definition.

Method

document.createElement('li')

Object

Key

2022

S	M	T	W	T	F	S
1	2	3	4			
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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WK 20 • 131-234

11

Array as a value:

```

10 let person = {
11   name: "Rahul",
12   age: 28,
13   habits: ['playing chess', 'Singing']
14 };

```

```
2 console.log(person.habits);
```

```
3 console.log(person.habits[0]);
```

```
4 console.log(person['habits'][1]);
```

Comments:

→ single line comments

→ Multi-line comments.

Javascript comments can be used

to explain Javascript code, and to
make it more readable.

2022

12

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M	T	W	T	F	S	S
30	31					
2	3	4	5	6	7	1
9	10	11	12	13	14	8
16	17	18	19	20	21	15
23	24	25	26	27	28	29

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9 ↪ Use two forward slashes (//) to

10 Comments single line of text (or code)

11 12 Multi-line Comments:

1 Multi-line Comments start with

2 /* (and end with */)

3 ([]) () () () () ()

4 ([]) () () () () ()

5

6

7

8

S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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WK 20 • 133-232

13

HTML:

<!DOCTYPE html>

The Doctype tells the browser to use standards mode.

* The `<!DOCTYPE>` declaration represents the document type, and helps the browser to display web pages correctly.

HTML Headings

HTML headings are defined with `<h1>`, `<h2>`, `<h3>`, `<h4>`, `<h5>`, `<h6>` tags.

HTML Paragraph:

HTML paragraphs are defined with the `<p>` tag.
`<p> This is para </p>`

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M	T	W	T	F	S	S
30	31					
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

HTML Links

HTML links are defined with the `<a>` tag.

Ex:

```
<a href = "http://www.w3schools.com"> w3schools </a>
```

This is a link `<a>`.

HTML Images

15

SUNDAY

The

Ex: ``

width = "104" height = "142" >

2022

M	T	W	T	F	S
1	2	3	4		
6	7	8	9	10	11
13	14	15	16	17	18
20	21	22	23	24	25
27	28	29	30		

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src = source file

alt = alternative text

width = width initial value

height = height

 contains start and end tag

HTML Element; has no body

The HTML element is everything
from the start tag to end tag

[<h1> This is teja </h1>]

|
Element

 is used to break the

line.

terminating him

2022

M	T	W	T	F	S	S
30	31					
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

- * <html> element is the root element and it defines the whole HTML document.
- * It has a start tag <html> and an end tag </html>.

* <body> element the document body.

* <p> defines Paragraph

→ Empty html elements

HTML elements with no content are called empty elements or void elements.

M	T	W	T	F	S
1	2	3	4		
6	7	8	9	10	11
13	14	15	16	17	18
20	21	22	23	24	25
27	28	29	30		

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HTML attributes: addition about site

HTML attribute provides additional information about HTML elements.

→ href attribute

→ The src attribute

→ width and height attributes

→ The alt attribute to display alternative text

→ The style attribute

→ The lang attribute

→ The title attribute

Structure

← [name = "value"]

In src attribute we have

→ Absolute url (directs another website)
(these)

→ Relative url (starts with)

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M	T	W	T	F	S	S
30	31					
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

The style attribute is used to

add styles to an element.

Ex:- `<P style = "color: red;> This is a red paragraph.</P>`

* The lang attribute:-

The lang attribute inside the `<html>` tag, to declare the language of the web page.

Ex:-

`<html lang = "en">`

S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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* Bigger Headings:

Each HTML heading has a default size. However, you can specify the size for any heading with the "style" attribute, using CSS font-size property.

```
<h1 style="font-size: 60px;"> Heading</h1>
```

The <hr> tag defines a thematic break in an HTML page

[It draws a line]

W	T	F	S	S
S	M	T	W	T
4	5	6	7	8
1	12	13	14	15
8	19	20	21	22
5	26	27	28	29

S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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- Use the style attribute for styling HTML elements.
- Use background-color for Background color
- Use colors for text-colors
- Use font-family for text fonts
- Use 'font-size' for text sizes
- Use text-align for text alignment

HTML Text Formatting Elements

- Defines bold text
- Defines emphasized text
- <i> italic

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M	T	W	T	F	S	S
30	31					
2	3	4	5	6	7	1
9	10	11	12	13	14	8
16	17	18	19	20	21	15
23	24	25	26	27	28	29

S	M	T	W	T	F
5	6	7	8	9	10
12	13	14	15	16	17
19	20	21	22	23	24
26	27	28	29	30	

- `<small>` Defines smaller elements
- `<sub>` Defines subscripted
- `` Defines important text
- `<sup>` Defines superscripted
- `<ins>` Defines inserted
- `` Defines deleted
- `<mark>` " " marked by highlighted text.

Syntax:

5 `<P> ` This is teja ` </P>`

5 → `<q>`

7 `<div> </div>`

6 The `<div>`

8 `<div> </div>`

7 a sh
Bra
mar

26

THURSDAY • MAY

WK 22 • 146-219

S	M	T	W	T	F	S
2	3	4	5	6	7	1
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

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27

* <abbr> tag

- The HTML <abbr> tag defines an abbreviation or acronym.
- An abbreviation or acronym like "HTML", "CSS", "Mr.", "Dr.", "ASAP".

* Example:

```
<p><abbr title="World Wide Web"> was founded in 1998.</p>
```

* <cite>

- The HTML <cite> tag defines the title of a creative work.
- <cite> tag is used to cite by.

```
<img alt="Mural by Edward Munch. Painted in 1893.">
```

- The HTML <address> tag defines the contact information for the author/owner of the document.

WK 22 • 146-219

WK 22 • 147-218

```
<address>
  name : Director of Library
  place : 001 Loarindale Dr., 227
  email : . . . . . <br> . . . . .
  phn : . . . . . <br>
</address>
```

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9	10	11	12	13	14
16	17	18	19	20	21
23	24	25	26	27	28

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S	M	T	W	T	F	S
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	-

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WEEK 23 • 150-215

HTML CSS:

CSS Sheets

HTML Links - The target Attribute

WEEK 23 • 150-215

10 CSS stands for Cascading Style

11 Sheets.

12 what is CSS?

13 It is used to format the layout

of a webpage.

* With CSS you can control the color, font, the font size of text, the spacing between elements.

29 Links

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HTML links are hyperlinks

{
 `[Link text](url)`
}

10 By default, the linked page will be displayed in the current browser window. To change this, you must

11 specify another target for the link.

12 The target attribute can be have

one of the following values :

13 * self - open in the same window/tab

14 * blank - opens in the new "

15 * parent - opens document in the parent frame

16 * top - opens the document in the window with all "ifull" body off the window

31

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M	T	W	T	F	S	S
30	31					
2	3	4	5	6	7	8
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16	17	18	19	20	21	22
23	24	25	26	27	28	29

9

10

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→ Absolute URLs

11

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