**JavaScript Date Methods with Examples**

In JavaScript, the Date object is used to work with **dates and times**. You can create a new date using:

javascript

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let now = new Date();

**🛠 Constructor**

javascript

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let date1 = new Date(); // current date & time

let date2 = new Date("2025-07-24"); // date from string

let date3 = new Date(2025, 6, 24); // year, month (0-based), day

let date4 = new Date(2025, 6, 24, 10, 30); // year, month, day, hour, minute

**🔍 Get Methods**

| **Method** | **Example & Output** |
| --- | --- |
| **getFullYear()** | date.getFullYear() → 2025 |
| **getMonth()** | date.getMonth() → 6 *(July)* |
| **getDate()** | date.getDate() → 24 |
| **getDay()** | date.getDay() → 4 *(0=Sunday...6=Saturday)* |
| **getHours()** | date.getHours() → 14 |
| **getMinutes()** | date.getMinutes() → 45 |
| **getSeconds()** | date.getSeconds() → 33 |
| **getMilliseconds()** | date.getMilliseconds() → 12 |
| **getTime()** | date.getTime() → milliseconds since Jan 1, 1970 |
| **getTimezoneOffset()** | date.getTimezoneOffset() → -330 (for IST) |
| **getUTCFullYear()** | date.getUTCFullYear() |
| **getUTCMonth()** | date.getUTCMonth() |
| **getUTCDate()** | date.getUTCDate() |

**✍️ Set Methods**

| **Method** | **Example** |
| --- | --- |
| **setFullYear(y)** | date.setFullYear(2026) |
| **setMonth(m)** | date.setMonth(0) // January |
| **setDate(d)** | date.setDate(1) |
| **setHours(h)** | date.setHours(10) |
| **setMinutes(m)** | date.setMinutes(30) |
| **setSeconds(s)** | date.setSeconds(20) |
| **setMilliseconds(ms)** | date.setMilliseconds(100) |
| **setTime(ms)** | date.setTime(1678930212332) |

**🌐 Conversion Methods**

| **Method** | **Example** |
| --- | --- |
| **toDateString()** | date.toDateString() → "Thu Jul 24 2025" |
| **toTimeString()** | date.toTimeString() → "14:45:30 GMT+0530" |
| **toISOString()** | date.toISOString() → "2025-07-24T09:15:30.000Z" |
| **toUTCString()** | date.toUTCString() |
| **toLocaleString()** | date.toLocaleString() |
| **toLocaleDateString()** | date.toLocaleDateString() |
| **toLocaleTimeString()** | date.toLocaleTimeString() |

**🧮 Other Methods**

| **Method** | **Example** |
| --- | --- |
| **valueOf()** | date.valueOf() → milliseconds |
| **Date.now()** | Date.now() → current timestamp |
| **Date.parse(str)** | Date.parse("2025-07-24") → milliseconds |
| **Date.UTC(...)** | Date.UTC(2025, 6, 24) |