

JavaScript Date Functions

JavaScript Date Functions – Day, Month, Year Related

◆ 1. `new Date()`

Creates a new Date object.

```
let today = new Date(); // current date and time
console.log(today);    // Example: Mon May 06 2025 12:00:00 GMT+0530
```

You can also pass a specific date:

```
let birth = new Date('2005-10-21');
```

◆ 2. `.getFullYear()`

Returns the **year (4-digit)** from a Date object.

```
let date = new Date('2025-03-15');
console.log(date.getFullYear()); // Output: 2025
```

◆ 3. `.getMonth()`

Returns the **month (0-based)**:

0 = January , 1 = February , ..., 11 = December

```
let date = new Date('2025-03-15');
console.log(date.getMonth()); // Output: 2 (March is index 2)
```

```
let month = date.getMonth() + 1;
```

◆ 4. `.getDate()`

Returns the **day of the month** (1–31)

```
let date = new Date('2025-03-15');  
console.log(date.getDate()); // Output: 15
```

◆ 5. `.getDay()`

Returns the **day of the week** (0–6):

0 = Sunday , 1 = Monday , ..., 6 = Saturday

```
let date = new Date('2025-03-15');  
console.log(date.getDay()); // Output: 6 (Saturday)
```

◆ 6. Days in a Month (Smart Trick)

Find how many days in any month:

```
// Get total days in February 2025  
let daysInFeb = new Date(2025, 2, 0).getDate();  
console.log(daysInFeb); // Output: 28 (2025 is not a leap year)
```

Use 0 as day to get the last day of the previous month.

```
// Days in April  
new Date(2025, 4, 0).getDate(); // Output: 30 (April has 30 days)
```

◆ 7. `.setFullYear(year)`

Sets the year of a date object.

```
let d = new Date();  
d.setFullYear(2000);  
console.log(d); // year will be 2000 now
```

◆ 8. `.setMonth(month)`

Sets the month (0–11)

```
let d = new Date();  
d.setMonth(0); // Sets to January
```

◆ 9. `.setDate(day)`

Sets the **day of the month**.

```
let d = new Date();  
d.setDate(15); // Sets to 15th of the month
```

◆ 10. Getting Time Differences in ms/days

```
let dob = new Date('2000-01-01');  
let today = new Date();  
  
let diffInMs = today - dob; // difference in milliseconds  
let days = Math.floor(diffInMs / (1000 * 60 * 60 * 24)); // convert to days  
  
console.log(`You are ${days} days old`);
```

Summary Table

Function	Returns
<code>getFullYear()</code>	Year (e.g., 2025)
<code>getMonth()</code>	Month index (0–11)
<code>getDate()</code>	Day of month (1–31)
<code>getDay()</code>	Weekday index (0–6) → started from Sunday
<code>new Date(Y, M, 0)</code>	Last day of previous month
<code>setFullYear(year)</code>	Sets the year
<code>setMonth(month)</code>	Sets the month
<code>setDate(day)</code>	Sets the day of month