# JavaScript Dates Review

**The date() Object and Common Methods**

* **Definition**: The date() object is used to create, manipulate, and format dates and times in JavaScript. In the following example, the new keyword is used to create a new instance of the Date object, and the Date object is then assigned to the variable now. If you were to log the value of now to the console, you would see the current date and time based on the system clock of the computer running the code.

Example Code

const now = new Date();

* **Date.now() Method**: This method is used to get the current date and time. Date.now() returns the number of milliseconds since January 1, 1970, 00:00:00 UTC. This is known as the Unix epoch time. Unix epoch time is a common way to represent dates and times in computer systems because it is an integer that can be easily stored and manipulated. UTC stands for Universal Time Coordinated, which is the primary time standard by which the world regulates clocks and time.
* **getDate() Method**: This method is used to get a day of the month based on the current date. getDate() will return an integer value between 1 and 31, depending on the day of the month. If the date is invalid, it will return NaN (Not a Number).

Example Code

const now = new Date();

const date = now.getDate();

console.log(date); // 15

* **getMonth() Method**: This method is used to get the month. The month is zero-based, so January is 0, February is 1, and so on. In this example, the output is 2, which corresponds to March. If the month is invalid, it will return NaN.

Example Code

const now = new Date();

const month = now.getMonth();

console.log(month); // 2

* **getFullYear() Method**: This method is used to get the full year. If the year is invalid, it will return NaN.

Example Code

const now = new Date();

const year = now.getFullYear();

console.log(year); // 2024

**Different Ways to Format Dates**

* **toISOString() Method**: This method is used to format the date in an extended ISO (ISO 8601) format. ISO 8601 is an international standard for representing dates and times. The format is YYYY-MM-DDTHH:mm:ss.sssZ.

Example Code

const date = new Date();

console.log(date.toISOString());

* **toLocaleDateString() Method**: This method is used to format the date based on the user's locale.

Example Code

const date = new Date();

console.log(date.toLocaleDateString()); // 11/23/2024

The toLocaleDateString() method accepts two optional parameters: locales and options.

The locales parameter is a string representing the locale to use. For example, you can pass in "en-US" for English (United States) or "fr-FR" for French (France). If you don't pass in a locales parameter, the default locale is used. The second optional parameter is the options parameter. This parameter is an object that allows you to specify the format of the date string.

Example Code

const date = new Date();

const options = {

weekday: "long",

year: "numeric",

month: "long",

day: "numeric",

};

console.log(date.toLocaleDateString("en-GB", options)); // Saturday, November 23, 2024