



Java Date and Time

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Java Dates

Java does not have a built-in Date class, but we can import the `java.time` package to work with the date and time API. The package includes many date and time classes. For example:

Class	Description
<code>LocalDate</code>	Represents a date (year, month, day (yyyy-MM-dd))
<code>LocalTime</code>	Represents a time (hour, minute, second and nanoseconds (HH-mm-ss-ns))
<code>LocalDateTime</code>	Represents both a date and a time (yyyy-MM-dd-HH-mm-ss-ns)
<code>DateTimeFormatter</code>	Formatter for displaying and parsing date-time objects

If you don't know what a package is, read our [Java Packages Tutorial](#).

Display Current Date

To display the current date, import the `java.time.LocalDate` class, and use its `now()` method:

Example

```
import java.time.LocalDate; // import the LocalDate class

public class Main {
    public static void main(String[] args) {
        LocalDate myObj = LocalDate.now(); // Create a date object
        System.out.println(myObj); // Display the current date
    }
}
```

The output will be:

2022-09-03

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Display Current Time

To display the current time (hour, minute, second, and nanoseconds), import the `java.time.LocalTime` class, and use its `now()` method:

Example

```
import java.time.LocalTime; // import the LocalTime class

public class Main {
    public static void main(String[] args) {
        LocalTime myObj = LocalTime.now();
    }
}
```

```
        System.out.println(myObj);  
    }  
}
```

The output will be:

20:29:36.190537

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Display Current Date and Time

To display the current date and time, import the `java.time.LocalDateTime` class, and use its `now()` method:

Example

```
import java.time.LocalDateTime; // import the LocalDateTime class  
  
public class Main {  
    public static void main(String[] args) {
```

```
        LocalDateTime myObj = LocalDateTime.now();  
        System.out.println(myObj);  
    }  
}
```

The output will be:

```
2022-09-03T20:29:36.190750
```

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Formatting Date and Time

The "T" in the example above is used to separate the date from the time. You can use the `DateTimeFormatter` class with the `ofPattern()` method in the same package to format or parse date-time objects. The following example will remove both the "T" and nanoseconds from the date-time:

Example

```
import java.time.LocalDateTime; // Import the LocalDateTime class  
import java.time.format.DateTimeFormatter; // Import the DateTimeFormatter class  
  
public class Main {  
    public static void main(String[] args) {  
        LocalDateTime myDateObj = LocalDateTime.now();  
        System.out.println("Before formatting: " + myDateObj);  
        DateTimeFormatter myFormatObj = DateTimeFormatter.ofPattern("dd-MM-yyyy HH:mm");  
  
        String formattedDate = myDateObj.format(myFormatObj);  
        System.out.println("After formatting: " + formattedDate);  
    }  
}
```

The output will be:

Before Formatting: 2022-09-03T20:29:36.190387

After Formatting: 03-09-2022 20:29:36

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The `ofPattern()` method accepts all sorts of values, if you want to display the date and time in a different format. For example:

Value	Example	Tryit
<i>yyyy-MM-dd</i>	"1988-09-29"	Try it »
<i>dd/MM/yyyy</i>	"29/09/1988"	Try it »
<i>dd-MMM-yyyy</i>	"29-Sep-1988"	Try it »
<i>E, MMM dd yyyy</i>	"Thu, Sep 29 1988"	Try it »

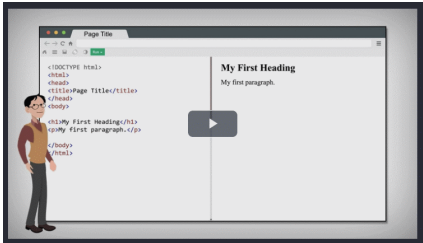
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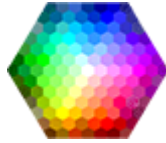
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