

DayOfWeek and Month Enums

The Date-Time API provides enums for specifying days of the week and months of the year.

DayOfWeek

The [DayOfWeek](#) enum consists of seven constants that describe the days of the week: **MONDAY** through **SUNDAY**. The integer values of the [DayOfWeek](#) constants range from 1 (Monday) through 7 (Sunday). Using the defined constants ([DayOfWeek.FRIDAY](#)) makes your code more readable.

This enum also provides a number of methods, similar to the methods provided by the temporal-based classes. For example, the following code adds 3 days to **Monday** and prints the result. The output is **THURSDAY**:

```
1 | System.out.printf("%s%n", DayOfWeek.MONDAY.plus(3));
```

By using the [getDisplayName\(TextStyle, Locale\)](#) method, you can retrieve a string to identify the day of the week in the user's locale. The [TextStyle](#) enum enables you to specify what sort of string you want to display: **FULL**, **NARROW** (typically a single letter), or **SHORT** (an abbreviation). The **STANDALONE** [TextStyle](#) constants are used in some languages where the output is different when used as part of a date than when it is used by itself. The following example prints the three primary forms of the [TextStyle](#) for **Monday**:

```
1 | DayOfWeek dow = DayOfWeek.MONDAY;  
2 | Locale locale = Locale.getDefault();  
3 | System.out.println(dow.getDisplayName(TextStyle.FULL, locale));  
4 | System.out.println(dow.getDisplayName(TextStyle.NARROW, locale));  
5 | System.out.println(dow.getDisplayName(TextStyle.SHORT, locale));
```

This code has the following output for the `en` locale:

```
1 | Monday  
2 | M  
3 | Mon
```

Month

The [Month](#) enum includes constants for the twelve months, `JANUARY` through `DECEMBER`. As with the [DayOfWeek](#) enum, the [Month](#) enum is strongly typed, and the integer value of each constant corresponds to the ISO range from 1 (January) through 12 (December). Using the defined constants (`Month.SEPTEMBER`) makes your code more readable.

The [Month](#) enum also includes a number of methods. The following line of code uses the [maxLength\(\)](#) method to print the maximum possible number of days in the month of February. The output is "29":

```
1 | System.out.printf("%d%n", Month.FEBRUARY.maxLength());
```

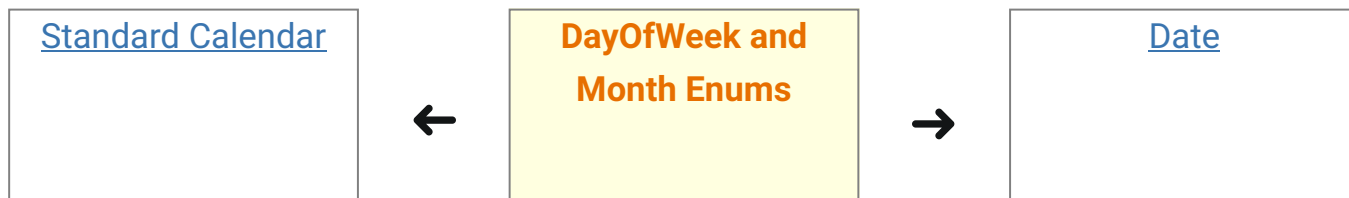
The [Month](#) enum also implements the [getDisplayName\(TextStyle, Locale\)](#) method to retrieve a string to identify the month in the user's locale using the specified [TextStyle](#). If a particular [TextStyle](#) is not defined, then a string representing the numeric value of the constant is returned. The following code prints the month of August using the three primary text styles:

```
1 | Month month = Month.AUGUST;  
2 | Locale locale = Locale.getDefault();  
3 | System.out.println(month.getDisplayName(TextStyle.FULL, locale));  
4 | System.out.println(month.getDisplayName(TextStyle.NARROW, locale));  
5 | System.out.println(month.getDisplayName(TextStyle.SHORT, locale));
```

This code has the following output for the `en` locale:

```
1 | August  
2 | A  
3 | Aug
```

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