



# Date

The Date-Time API provides four classes that deal exclusively with date information, without respect to time or time zone. The use of these classes are suggested by the class names: [LocalDate](#), [YearMonth](#), [MonthDay](#), and [Year](#).

## The LocalDate Class

A [LocalDate](#) represents a year-month-day in the ISO calendar and is useful for representing a date without a time. You might use a [LocalDate](#) to track a significant event, such as a birth date or wedding date. The following examples use the `of` and `with` methods to create instances of [LocalDate](#):

```
1 | LocalDate date = LocalDate.of(2000, Month.NOVEMBER, 20);
2 | LocalDate nextWed = date.with(TemporalAdjusters.next(DayOfWeek.WEDNESDAY));
```

For more information about the [TemporalAdjuster](#) interface, see the section on [Temporal Adjuster](#).

In addition to the usual methods, the [LocalDate](#) class offers getter methods for obtaining information about a given date. The `getDayOfWeek()` method returns the day of the week that a particular date falls on. For example, the following line of code returns "MONDAY":

```
1 | DayOfWeek dotw = LocalDate.of(2012, Month.JULY, 9).getDayOfWeek();
```

The following example uses a [TemporalAdjuster](#) to retrieve the first Wednesday after a specific date.

```

1 | LocalDate date = LocalDate.of(2000, Month.NOVEMBER, 20);
2 | TemporalAdjuster adj = TemporalAdjusters.next(DayOfWeek.WEDNESDAY);
3 | LocalDate nextWed = date.with(adj);
4 | System.out.printf("For the date of %s, the next Wednesday is %s.%n",
5 |                 date, nextWed);

```

Running the code produces the following:

```

1 | For the date of 2000-11-20, the next Wednesday is 2000-11-22.

```

The [Period and Duration](#) section also has examples using the [LocalDate](#) class.

## The YearMonth Class

The [YearMonth](#) class represents the month of a specific year. The following example uses the [lengthOfMonth\(\)](#) method to determine the number of days for several year and month combinations.

```

1 | YearMonth date = YearMonth.now();
2 | System.out.printf("%s: %d%n", date, date.lengthOfMonth());
3 |
4 | YearMonth date2 = YearMonth.of(2010, Month.FEBRUARY);
5 | System.out.printf("%s: %d%n", date2, date2.lengthOfMonth());
6 |
7 | YearMonth date3 = YearMonth.of(2012, Month.FEBRUARY);
8 | System.out.printf("%s: %d%n", date3, date3.lengthOfMonth());

```

The output from this code looks like the following:

```

1 | 2013-06: 30
2 | 2010-02: 28
3 | 2012-02: 29

```

## The MonthDay Class

The [MonthDay](#) class represents the day of a particular month, such as New Year's Day on January 1.

The following example uses the [isValidYear\(.\)](#) method to determine if February 29 is valid for the year 2010. The call returns false, confirming that 2010 is not a leap year.

```
1 | MonthDay date = MonthDay.of(Month.FEBRUARY, 29);
2 | boolean validLeapYear = date.isValidYear(2010);
```

## The Year Class

The [Year](#) class represents a year. The following example uses the [isLeap\(.\)](#) method to determine if the given year is a leap year. The call returns true, confirming that 2012 is a leap year.

```
1 | boolean validLeapYear = Year.of(2012).isLeap();
```

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[Home](#) > [Tutorials](#) > [The Date Time API](#) > Date