









Locale class

- ➤ A Locale object represents a specific geographical, political, or cultural region.
- > An operation that requires a Locale to perform its task is called localesensitive and uses the Locale to tailor information for the user.
- For example, displaying a Date is a locale-sensitive operation— the Date should be formatted according to the customs and conventions of the user's native country, region, or culture.

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Locale Class

- The Locale class is used for worldwide denomination
 - DateFormat class can use an instance of Locale to customize formatted o



Introduction to Date (1/2)

Java API provides an extensive set of classes to work with dates, numbers and currencies Few date related classes

- · java.util.Date
 - This class is used to bridge between the Calendar and DateFormat class
 - · An instance of Date represents a mutable date and time, to a millisecond

· java.util.Calendar

Provides a huge variety of methods that help to convert and manipulate dates and times

- · java.text.DateFormat
 - Used to format dates in various styles such as "01/01/70" or "January 1, 1970"
 - · Used to format dates for numerous locales around the world



Introduction to Date (2/2)

· java.text.NumberFormat

Used to format numbers and currencies for numerous locales

· java.util.Locale

- Used in conjunction with DateFormat to format dates for specific locales
- Used in conjunction with NumberFormat to format numbers and currency for specific locales

Core Java



Date

- · Class Date represents a specific instant in time, with millisecond precision
- The no-arg constructor of date class returns the current date and time
- The methods of date can be used to display, manipulate the date and time

Methods

- after(Date d)
 - · Tests if this date is after the specified date
- before(Date d)
 - · Tests if this date is before the specified date
- getTime()
 - Returns the number of milliseconds since January 1, 1970
- setTime(long time)
 - Sets this Date object to represent number of milliseconds after January 1, 1970



The Calendar Class

 Calendar is an abstract class that has many fields and methods to display and manipulate calendar instance

- In order to create a Calendar instance, use one of the overloaded getInstance() static methods Calendar ca = Calendar.getInstance();
- Calendar reference variable (ca) is referring to an instance of a concrete subclass of Calendar, java.util.GregorianCalendar



DateFormat Class

- · DateFormat is an abstract class
- · It belongs to java.text.DateFormatPackage
- Use two factory methods, getInstance() and getDateInstance() to format dates
- The format() method is used to create Strings representing the properly formatted versions of the Date
- The static fields like SHORT, MEDIUM, LONG, FULL represents a formatting style



Some more DateFormat method

parse() Method

- Takes a String formatted in the style of the DateFormat instance being used, and converts the String into a Date object
- parse() can throw a ParseException





