**Java Dates SFD**

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# Fuseau horaire (Time zone) et Temps universel coordonné UTC

## Carte des fuseaux horaires

Une image contenant carte

Description générée automatiquement

Carte 1 Fuseaux horaires = L’heure dans le monde par rapport à UTC.

[[1]](#footnote-1)

## Décalage du fuseau horaire par rapport à UTC

De façon simple, un fuseau horaire peut être écrit sous la **forme UTC+X ou UTC-Y, où « X » et « Y »** **représentent le décalage du fuseau par rapport à UTC[[2]](#footnote-2).**

Les exemples suivants donnent des exemples de variation de l'heure locale suivant plusieurs fuseaux horaires lorsqu'il est 12:00 UTC et en hiver :

Los Angeles, États-Unis (UTC-8) : 04:00

Chicago, États-Unis (UTC-6) : 06:00

New York, États-Unis (UTC-5) : 07:00

Halifax, Canada (UTC-4) : 08:00

Londres, Royaume-Uni (UTC±0) : 12:00

Stockholm, Suède (UTC+1) : 13:00

Le Cap, Afrique du Sud (UTC+2) : 14:00

Mysore, Inde (UTC+5:30) : 17:30

Katmandou, Népal (UTC+5:45) : 17:45

Séoul, Corée du Sud (UTC+9) : 21:00

Melbourne, Australie (UTC+10) : 22:00

### Pour une liste des décalages UTC

<https://en.wikipedia.org/wiki/Time_zone#List_of_UTC_offsets>

### Pour une liste **exhaustive** des décalages UTC

<https://en.wikipedia.org/wiki/List_of_UTC_offsets>

# Time Zone et ZoneID

<https://devstory.net/13715/java-zoneid>

# Format des dates

## Class SimpleDateFormat

### Date and Time Patterns

<https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html>

|  |  |  |  |
| --- | --- | --- | --- |
| **Letter** | **Date or Time Component** | **Presentation** | **Examples** |
| G | Era designator | [Text](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#text) | AD |
| y | Year | [Year](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#year) | 1996; 96 |
| Y | Week year | [Year](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#year) | 2009; 09 |
| M | Month in year | [Month](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#month) | July; Jul; 07 |
| w | Week in year | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 27 |
| W | Week in month | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 2 |
| D | Day in year | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 189 |
| d | Day in month | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 10 |
| F | Day of week in month | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 2 |
| E | Day name in week | [Text](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#text) | Tuesday; Tue |
| u | Day number of week (1 = Monday, ..., 7 = Sunday) | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 1 |
| a | Am/pm marker | [Text](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#text) | PM |
| H | Hour in day (0-23) | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 0 |
| k | Hour in day (1-24) | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 24 |
| K | Hour in am/pm (0-11) | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 0 |
| h | Hour in am/pm (1-12) | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 12 |
| m | Minute in hour | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 30 |
| s | Second in minute | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 55 |
| S | Millisecond | [Number](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#number) | 978 |
| z | Time zone | [General time zone](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#timezone) | Pacific Standard Time; PST; GMT-08:00 |
| Z | Time zone | [RFC 822 time zone](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#rfc822timezone) | -0800 |
| X | Time zone | [ISO 8601 time zone](https://docs.oracle.com/javase/7/docs/api/java/text/SimpleDateFormat.html#iso8601timezone) | -08; -0800; -08:00 |

### Exemples

|  |  |
| --- | --- |
| **Date and Time Pattern** | **Result** |
| "yyyy.MM.dd G 'at' HH:mm:ss z" | 2001.07.04 AD at 12:08:56 PDT |
| "EEE, MMM d, ''yy" | Wed, Jul 4, '01 |
| "h:mm a" | 12:08 PM |
| "hh 'o''clock' a, zzzz" | 12 o'clock PM, Pacific Daylight Time |
| "K:mm a, z" | 0:08 PM, PDT |
| "yyyyy.MMMMM.dd GGG hh:mm aaa" | 02001.July.04 AD 12:08 PM |
| "EEE, d MMM yyyy HH:mm:ss Z" | Wed, 4 Jul 2001 12:08:56 -0700 |
| "yyMMddHHmmssZ" | 010704120856-0700 |
| "yyyy-MM-dd'T'HH:mm:ss.SSSZ" | 2001-07-04T12:08:56.235-0700 |
| "yyyy-MM-dd'T'HH:mm:ss.SSSXXX" | 2001-07-04T12:08:56.235-07:00 |
| "YYYY-'W'ww-u" | 2001-W27-3 |

## Class DateTimeFormatter

<https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html>

### Predefined Formatters

| **Formatter** | **Description** | **Example** |
| --- | --- | --- |
| [ofLocalizedDate(dateStyle)](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ofLocalizedDate-java.time.format.FormatStyle-) | Formatter with date style from the locale | '2011-12-03' |
| [ofLocalizedTime(timeStyle)](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ofLocalizedTime-java.time.format.FormatStyle-) | Formatter with time style from the locale | '10:15:30' |
| [ofLocalizedDateTime(dateTimeStyle)](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ofLocalizedDateTime-java.time.format.FormatStyle-) | Formatter with a style for date and time from the locale | '3 Jun 2008 11:05:30' |
| [ofLocalizedDateTime(dateStyle,timeStyle)](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ofLocalizedDateTime-java.time.format.FormatStyle-) | Formatter with date and time styles from the locale | '3 Jun 2008 11:05' |
| [BASIC\_ISO\_DATE](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#BASIC_ISO_DATE) | Basic ISO date | '20111203' |
| [ISO\_LOCAL\_DATE](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_LOCAL_DATE) | ISO Local Date | '2011-12-03' |
| [ISO\_OFFSET\_DATE](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_OFFSET_DATE) | ISO Date with offset | '2011-12-03+01:00' |
| [ISO\_DATE](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_DATE) | ISO Date with or without offset | '2011-12-03+01:00'; '2011-12-03' |
| [ISO\_LOCAL\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_LOCAL_TIME) | Time without offset | '10:15:30' |
| [ISO\_OFFSET\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_OFFSET_TIME) | Time with offset | '10:15:30+01:00' |
| [ISO\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_TIME) | Time with or without offset | '10:15:30+01:00'; '10:15:30' |
| [ISO\_LOCAL\_DATE\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_LOCAL_DATE_TIME) | ISO Local Date and Time | '2011-12-03T10:15:30' |
| [ISO\_OFFSET\_DATE\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_OFFSET_DATE_TIME) | Date Time with Offset | 2011-12-03T10:15:30+01:00' |
| [ISO\_ZONED\_DATE\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_ZONED_DATE_TIME) | Zoned Date Time | '2011-12-03T10:15:30+01:00[Europe/Paris]' |
| [ISO\_DATE\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_DATE_TIME) | Date and time with ZoneId | '2011-12-03T10:15:30+01:00[Europe/Paris]' |
| [ISO\_ORDINAL\_DATE](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_ORDINAL_DATE) | Year and day of year | '2012-337' |
| [ISO\_WEEK\_DATE](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_WEEK_DATE) | Year and Week | 2012-W48-6' |
| [ISO\_INSTANT](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#ISO_INSTANT) | Date and Time of an Instant | '2011-12-03T10:15:30Z' |
| [RFC\_1123\_DATE\_TIME](https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html#RFC_1123_DATE_TIME) | RFC 1123 / RFC 822 | 'Tue, 3 Jun 2008 11:05:30 GMT' |

### Patterns for Formatting and Parsing

Symbol Meaning Presentation Examples

------ ------- ------------ -------

G era text AD; Anno Domini; A

u year year 2004; 04

y year-of-era year 2004; 04

D day-of-year number 189

M/L month-of-year number/text 7; 07; Jul; July; J

d day-of-month number 10

Q/q quarter-of-year number/text 3; 03; Q3; 3rd quarter

Y week-based-year year 1996; 96

w week-of-week-based-year number 27

W week-of-month number 4

E day-of-week text Tue; Tuesday; T

e/c localized day-of-week number/text 2; 02; Tue; Tuesday; T

F week-of-month number 3

a am-pm-of-day text PM

h clock-hour-of-am-pm (1-12) number 12

K hour-of-am-pm (0-11) number 0

k clock-hour-of-am-pm (1-24) number 0

H hour-of-day (0-23) number 0

m minute-of-hour number 30

s second-of-minute number 55

S fraction-of-second fraction 978

A milli-of-day number 1234

n nano-of-second number 987654321

N nano-of-day number 1234000000

V time-zone ID zone-id America/Los\_Angeles; Z; -08:30

z time-zone name zone-name Pacific Standard Time; PST

O localized zone-offset offset-O GMT+8; GMT+08:00; UTC-08:00;

X zone-offset 'Z' for zero offset-X Z; -08; -0830; -08:30; -083015; -08:30:15;

x zone-offset offset-x +0000; -08; -0830; -08:30; -083015; -08:30:15;

Z zone-offset offset-Z +0000; -0800; -08:00;

p pad next pad modifier 1

' escape for text delimiter

'' single quote literal '

[ optional section start

] optional section end

# reserved for future use

{ reserved for future use

} reserved for future use

# Liste déroulante

## Format des Dates

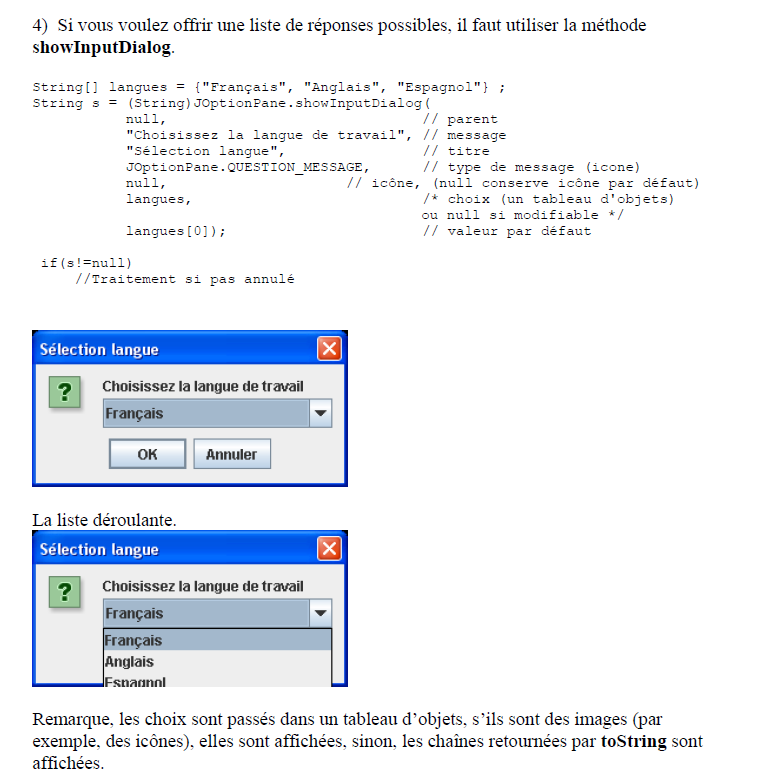
TU

<https://www.delftstack.com/fr/howto/java/how-to-get-the-current-date-time-in-java/>

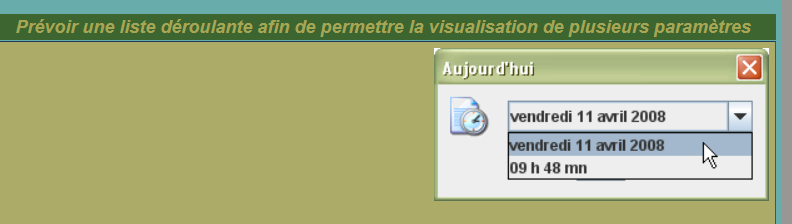
eu

usa

uk



[C:\Users\Djamel\Workspace\jSwing\JOptionPane\JOptionPane\WorkItems](file:///C:\Users\Djamel\Workspace\jSwing\JOptionPane\JOptionPane\WorkItems)

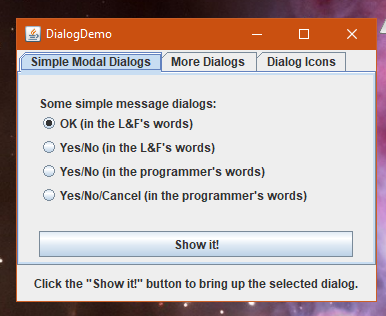


<http://remy-manu.no-ip.biz/Java/Tutoriels/IHM/dialogue.html>

# JTabbedPane

Une image contenant texte

Description générée automatiquement

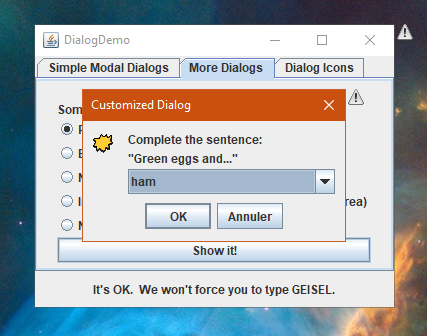


Une image contenant texte, capture d’écran, moniteur

Description générée automatiquement

Une image contenant texte

Description générée automatiquement



Une image contenant texte, arbre, capture d’écran

Description générée automatiquement

Une image contenant texte, capture d’écran, arbre

Description générée automatiquement

# Links

<https://www.delftstack.com/fr/howto/java/how-to-get-the-current-date-time-in-java/>

<https://docs.oracle.com/javase/8/docs/api/java/time/format/DateTimeFormatter.html>

<https://www.delftstack.com/fr/howto/java/java-get-current-timestamp/>

<https://koor.fr/Java/API/java/lang/System/currentTimeMillis.wp>

1. <https://en.wikipedia.org/wiki/Time_zone> [↑](#footnote-ref-1)
2. <https://fr.wikipedia.org/wiki/Fuseau_horaire> [↑](#footnote-ref-2)