

# Tutorials 4.4 Dates

De Wiki

Aller à : [navigation](#), [rechercher](#)

[Spécial:Suivi des liens/User Manual 3.4.1 Attitude law](#) > [Fichier:Cardan.gif](#) > [Discussion utilisateur:3.19.211.134](#) > [Discussion utilisateur:3.144.93.73](#) > [Tutorials 4.4 Dates](#)

## What is a date ?

A date is an instance of [AbsoluteDate](#). Two important things are necessary to know:

- It is an immutable object, meaning, once it is created, it is no more possible to change it. If you want, for example to shift it, you will have to create a new date, eventually starting from the initial one using the [shiftedBy\(\)](#) method;
- It is allways "stored" in the **TAI** time scale (but may be built and/or expressed in other formats). Time scales are available with a factory ([TimeScalesFactory](#).getXXX()). But, be careful that it is mandatory to use a **PATRIUS** data set as **UTC/TAI** shifts are stored in it !

Some basic operations may be executed as, for example, comparizon ([compareTo\(\)](#)), computing a duration ([durationFrom\(\)](#)), adding an offset ([shiftedBy\(\)](#)) ...

**Code example:** [create dates](#)

Récupérée de « [http://patrius.cnes.fr/index.php?title=Tutorials\\_4.4\\_Dates&oldid=2451](http://patrius.cnes.fr/index.php?title=Tutorials_4.4_Dates&oldid=2451) »  
[Catégorie](#) :

- [Tutorials 4.4](#)

## Menu de navigation

### Outils personnels

- [3.142.201.206](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

### Espaces de noms

- [Page](#)
- [Discussion](#)

### Variantes

### Affichages

- [Lire](#)

- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

## Plus

## Rechercher

## PATRIUS

- [Welcome](#)

## Evolutions

- [Main differences between V4.13 and V4.12](#)
- [Main differences between V4.12 and V4.11](#)
- [Main differences between V4.11 and V4.10](#)
- [Main differences between V4.10 and V4.9](#)
- [Main differences between V4.9 and V4.8](#)
- [Main differences between V4.8 and V4.7](#)
- [Main differences between V4.7 and V4.6.1](#)
- [Main differences between V4.6.1 and V4.5.1](#)
- [Main differences between V4.5.1 and V4.4](#)
- [Main differences between V4.4 and V4.3](#)
- [Main differences between V4.3 and V4.2](#)
- [Main differences between V4.2 and V4.1.1](#)
- [Main differences between V4.1.1 and V4.1](#)
- [Main differences between V4.1 and V4.0](#)
- [Main differences between V4.0 and V3.4.1](#)

## User Manual

- [User Manual 4.13](#)
- [User Manual 4.12](#)
- [User Manual 4.11](#)
- [User Manual 4.10](#)
- [User Manual 4.9](#)
- [User Manual 4.8](#)
- [User Manual 4.7](#)
- [User Manual 4.6.1](#)
- [User Manual 4.5.1](#)
- [User Manual 4.4](#)

- [User Manual 4.3](#)
- [User Manual 4.2](#)
- [User Manual 4.1](#)
- [User Manual 4.0](#)
- [User Manual 3.4.1](#)
- [User Manual 3.3](#)

## Tutorials

- [Tutorials 4.5.1](#)
- [Tutorials 4.4](#)
- [Tutorials 4.1](#)
- [Tutorials 4.0](#)

## Links

- [CNES freeware server](#)

## Navigation

- [Accueil](#)
- [Modifications récentes](#)
- [Page au hasard](#)
- [Aide](#)

## Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)
- [Information sur la page](#)
- [Citer cette page](#)

• Dernière modification de cette page le 3 octobre 2019 à 11:28.

- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)

- 