

Tutorials 4.0 Dates

De Wiki

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

[Tutorials 4.0 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 always "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](#)

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[Catégorie](#) :

- [Tutorials 4.0](#)

Menu de navigation

Outils personnels

- [3.137.218.176](#)
- [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 V4.15 and V4.14](#)
- [Main differences between V4.14 and V4.13](#)
- [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 4.15](#)
- [User Manual 4.14](#)
- [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 4.15](#)
- [Tutorials 4.14](#)
- [Tutorials 4.13.5](#)
- [Tutorials 4.12.1](#)
- [Tutorials 4.8.1](#)
- [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 27 mars 2018 à 14:00.
- [Politique de confidentialité](#)
 - [À propos de Wiki](#)
 - [Avertissements](#)

