

# Tutorials 4.4 Attitude

De Wiki

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## Attitude

We must not confuse an [Attitude](#) and an [AttitudeLaw](#) (or [AttitudeLawLeg](#)). Indeed an [Attitude](#) is the current orientation of the spacecraft as the other ones will define the "laws" allowing to determine at each moment, the [Attitude](#).

For example, if we have an inertial [AttitudeLaw](#), the (inertial) [Attitude](#) of the spacecraft will be the same at each moment of the trajectory.

But if we have a Sun Pointing [AttitudeLaw](#), the current [Attitude](#) will change at each step.

So, most of the time, users will define [AttitudeLaw](#) or [AttitudeLawLeg](#) and will get the current [Attitude](#) using the [getAttitude\(\)](#) method.

## Attitude laws

Building an attitude law is relatively easy, using one of the the constructors available depending of the kind of law you want to use. Next examples show different cases.

### Code examples:

- [create a LOF attitude law](#)
- [create a Solar pointed attitude law](#)
- [create a two directions attitude law](#)

## Attitude legs

*To be written ...*

## Attitude sequence

[AttitudesSequence](#) is a very powerful concept which allows to define attitude logic all along a mission. Indeed, as it is based on orbital events detection, it avoids to define step by step attitude laws. For example, if we want to have:

- [LVLH](#) attitude during eclipse

- Sun pointing attitude else

... only two "switches" inside the attitude sequence are sufficient. It is coded in the proposed following tutorial.

**Code example:** [create a sequence of attitude laws](#)

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