

# BasicPrinciples

De Wiki

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**GENOPUS** widgets correspond to [\[PATRIUS\]](#) objects (for example [GPAbsoluteDate](#) for [AbsoluteDate](#), [GPOrbit](#) for [Orbit](#) ...). All these widgets are coded in [Java](#) using [\[\[1\]\]](#) functionalities for [display](#) but also [read/write](#): it means that they will propose the possibility to store them via an [XML](#) file.

## Initialization

A main requirement for most of the **GENOPUS** widgets is the fact that they can be initialized:

1. With no argument, meaning that all internal values have “by default” values
2. With the corresponding [\[PATRIUS\]](#) object

## Getting PATRIUS objects

Another main requirement is the fact that most of **GENOPUS** widgets own a [getPatriusObject\(\)](#) method allowing getting the corresponding [\[PATRIUS\]](#) object.

## Some non graphical objects

Some classes are not widgets but more computation flight dynamics ones. Most of the time, their name start with “**Custom**”. In fact, they correspond to temporary classes that could be included in [\[PATRIUS\]](#) library but which are not available at the time being or available but with lacking methods (getters for example). Each time an equivalent class will be available with [\[PATRIUS\]](#) , the next **GENOPUS** version will link with it and the old “**Custom**” equivalent class will become obsolete.

Since **V2.0** , only classes linked to events and maneuvers remains as “**Custom**”.

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