

What is Genius

De Wiki

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[What is Genius](#)

As indicated by its name, (**GENeration of Interface for Users of Scientific S/W**), **GENIUS** is a [CNES](#) higher level layer based on [swing](#), fully written in [Java](#) (no need of code generation) but allowing to create more easily [GUI](#) for **scientific** tools.

GENIUS is provided as **Open Source** under license **Apache 2.0**. [JavaDoc](#) is accessible via this site.

As it is coded in [Java](#), this product is available for any kind of platforms owning Java.

WHY GENIUS ?

In [Java](#) world, basic tools, as [swing](#), may become relatively complex to use because it stays at a certain low level (on the opposite, it allows to do a lot of things). Moreover, [GUI](#) for flight dynamics tools (or, more generally, scientific tools) need most of the time :

- To enter input (numerical) data from the screen or the keyboard
- To read / write these data into files
- To execute computation thanks to these data,
- To visualize results

MAIN ADVANTAGES

- As it is coded in [Java](#), this product is available for any kind of platforms owning Java.
- **GENIUS** is provided as **Open Source** under license **Apache 2.0**. [Java doc](#) is accessible via this site.
- Simplified approach, in particular about **events management** ([BEFORE](#), [AFTER](#))
- Performing **conditional display**
- **Read/write** for files directly integrated
- **Units management**
- **Process management** compatible of all OS (thanks to [Java](#)).

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