



by specifying a function name (without prefix/namespace), and a callback address.

When a script calls the specified function name, then CoppeliaSim calls the callback address. The most difficult task inside of a callback function is to correctly read the input arguments, and correctly write the output values. This happens via a stack. The user have two options to interact with the stack:

- the easiest is to use two helper classes (*CScriptFunctionData* and *CScriptFunctionDataItem*, located in *programming/include/simLib*). This however only allows to exchange simple data types (i.e. Booleans, integers, floating point numbers, strings and arrays of any of those)
- the more flexible way, allowing to exchange any type of data, is to use stack functions (located in *programming/include/simStack*): the plugin [simSkeleton](#) illustrates this.

In general, callback routines should execute as fast as possible, and control should then be given back to CoppeliaSim, otherwise the whole simulator will halt.