

Rock

the Robot Construction Kit

Cheat Sheet

(v1.0)

Basic usage

source env.sh

sources the environmental variables required for your rock installation to be functional

autoproj

allows you to easily install and maintain the rock system.

autoproj update

updates your rock installation.
autoproj update <dir> updates the package located at <dir>. **See also** [aup](#) below

autoproj build

builds the packages in your rock installation.
autoproj build <dir> builds the package in <dir>, as well as its dependencies.
See also [amake](#) below

autoproj status

Shows the "difference between the local packages and the remote repositories.

amake [package_name]

does an autoproj build for the given package, or the package in the current directory if no name is given

aup [package_name]

does an autoproj update for the given package, or the package in the current directory if no name is given

acd

change directories between packages, with shortcuts

Example: \$ *acd s/ikf* will go to slam/quater_ikf
 \$ *acd s/o/ikf* to slam/orogen/quater_ikf

Create commands

rock-create-lib

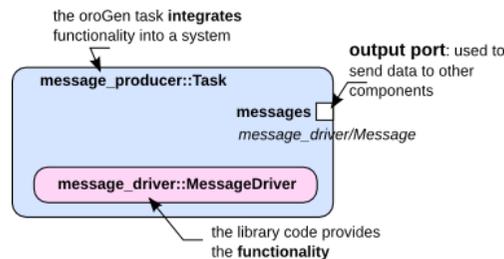
command line program to generate the basic folder layout for a new library, to develop the core of your algorithms

Example: \$ *rock-create-lib MyLibrary*

rock-create-orogen

command line program to generate the basic folder layout for a rock component.

Example: \$ *rock-create-orogen MyComponent*



rock-create-vizkit-widget

command line program to generate the basic folder layout and a ready-to-use Qt Designer widget.

Example: \$ *rock-create-vizkit-widget MyWidget*

rock-create-vizkit-plugin

command line program to generate the basic folder layout for a vizkit 3D plugin ready-to-use in rock.

Example: \$ *rock-create-vizkit-plugin MyPlugin*

rock-create-bundle

command line program to generate a bundle rock package. bundle offers a functional view of your system instead only single components.

Example: \$ *rock-create-bundle MyBundle*

Logging commands

pocolog

command-line tool allows you to easily look at log files

Usage: \$ *pocolog logfile*

rock-convert

conversion between different types version of log files in case of rock base-types updates.

Usage: \$ *rock-convert logfile*

Play commands

rock-run

Starts a new orogen component

Usage: \$ *rock-run project::Task*

rock-replay

command-line tool for replaying the content of log files.

Usage: \$ *rock-replay logfile*



rock-display

command line program for displaying the currently running components in your rock system. As rock-replay, it allows multiple visualization manners of the data flow.

Example: \$ *rock-display*

