

autoproj Cheat Sheet

autoproj >= v1.7.1 / sheet v1.0

Installing / Config

Installing autoproj

```
Installing OS dependencies
sudo apt-get install ruby rubygems
wget

Downloading install script
wget http://www.rock-robotics.org/
autoproj_bootstrap

Installing autoproj
ruby autoproj_bootstrap
```

Bootstrapping projects

```
Installing OS dependencies
sudo apt-get install ruby rubygems
wget

Downloading install script
wget http://www.rock-robotics.org/
autoproj_bootstrap

Bootstrapping an existing project
ruby autoproj_bootstrap git <url>
branch=<all>
```

Reconfigure autoproj

```
re-ask all configuration options
autoproj --reconfigure

switching configurations
autoproj switch-config git <url>
branch=<all>

Bootstrapping an existing project
autoproj bootstrap git <url>
branch=<all>
```

Monitoring

```
displaying state of the packages
autoproj status

listing all available packages
autoproj list-config
```

Updating / Building

Updating packages

```
Sourcing autoproj environment
source env.sh

Updating all packages
autoproj update

Updating configuration only
autoproj update-config
```

Building packages

```
Sourcing autoproj environment
source env.sh

Building all packages + install OS deps
autoproj build

Building all packages without OS deps
autoproj fast-build

Building without stopping on errors
autoproj build --keep-going

Building package xy
autoproj build <xy>

Installing package related OS deps
autoproj osdeps

Cleaning and building packages
autoproj rebuild

Triggering all build commands
autoproj force-build

Updating and building all packages
autoproj full-build

Generation documentation
autoproj doc
```

Overriding config

```
Overriding source informations
file: autoproj/overrides.yml
overrides:
- package_name:
url:
```

Creating new packages

Creating new packages

```
Check list
- create package
- add osdeps to manifest.xml
- add osdeps to local.osdeps or
package_set.osdeps
- add package to autoproj/manifest
or package_set.autobuild and
source.yml
- compile new package
autoproj build
```

```
Creating cmake package
rock-create-lib <new_package>
```

```
Creating new orogen package
rock-create-orogen <new_package>
(see orogen cheat sheet)
```

```
Adding additional package informations
file: new_package/manifest.xml
<package>
<description brief="">
</description>
<author>Name/Name@xy.org
</author>
<license></license>
<url>http://</url>
<logo>http://</logo>
<depend package="" />
<versioncontrol type="git"
url="" />
<export>
<cpp cflags="" lflags="" />
</export>
</package>
```

Overriding build config

file: autoproj/overrides.rb

Adding new packages

Adding packages

```
Package types
cmake_package "name"
ruby_package "name"
orogen_package "name"
autotools_package "name"
import_package "name"

Build options
not on 'debian' {}
only_on ['ubuntu', '10.04']{}
cmake_package "name" do |pkg|
pkg.post_install {}
pkg.depends_on "pkg_name"
end
```

Adding packages to local config

```
file: autoproj/local.autoproj
cmake_package "name"
file: autoproj/manifest
layout:
```

```
- name
Adding packages to a package set
file: autoproj/remotes/package_set/
package_set.autoproj
cmake_package "name"
file: autoproj/remotes/package_set/
source.yml
```

```
version_control:
- name:
type: git
url:
push_to:
branch:
```

```
file: autoproj/manifest
layout:
- name
```

Ignoring packages

```
file: autoproj/manifest
exclude_packages:
- package_name
ignore_packages:
- package_name
```

Defining OS deps

Adding OS deps

```
OS deps types
name: gem
name:
debian,ubuntu: [libxy]
name:
debian:
squeeze/sid:
- lib_xy
gentoo: ignore
```

Adding OS deps to packages

```
file: package/manifest.xml
<depend package = "name"/>
```

Defining OS deps for local config

```
file: autoproj/local.osdeps
name: gem
```

Defining OS deps for package sets

```
file: autoproj/remotes/package_set/
package_set.osdeps
name: gem
```

Adding package sets

Adding package sets to local config

```
file: autoproj/manifest
package_sets:
-type: git
branch: master
url:
push_to:
layout:
- package_set_name
```

Adding package sets to package set

```
file: autoproj/remotes/package_set/
source.yml
imports:
-type: git
branch: master
url:
push_to:
```