# toplevel CMakeLists.txt for a catkin workspace

# catkin/cmake/toplevel.cmake

cmake\_minimum\_required(VERSION 3.0.2)

project(Project)

set(CATKIN\_TOPLEVEL TRUE)

# search for catkin within the workspace

set(\_cmd "catkin\_find\_pkg" "catkin" "${CMAKE\_SOURCE\_DIR}")

execute\_process(COMMAND ${\_cmd}

RESULT\_VARIABLE \_res

OUTPUT\_VARIABLE \_out

ERROR\_VARIABLE \_err

OUTPUT\_STRIP\_TRAILING\_WHITESPACE

ERROR\_STRIP\_TRAILING\_WHITESPACE

)

if(NOT \_res EQUAL 0 AND NOT \_res EQUAL 2)

# searching fot catkin resulted in an error

string(REPLACE ";" " " \_cmd\_str "${\_cmd}")

message(FATAL\_ERROR "Search for 'catkin' in workspace failed (${\_cmd\_str}): ${\_err}")

endif()

# include catkin from workspace or via find\_package()

if(\_res EQUAL 0)

set(catkin\_EXTRAS\_DIR "${CMAKE\_SOURCE\_DIR}/${\_out}/cmake")

# include all.cmake without add\_subdirectory to let it operate in same scope

include(${catkin\_EXTRAS\_DIR}/all.cmake NO\_POLICY\_SCOPE)

add\_subdirectory("${\_out}")

else()

# use either CMAKE\_PREFIX\_PATH explicitly passed to CMake as a command line argument

# or CMAKE\_PREFIX\_PATH from the environment

if(NOT DEFINED CMAKE\_PREFIX\_PATH)

if(NOT "$ENV{CMAKE\_PREFIX\_PATH}" STREQUAL "")

if(NOT WIN32)

string(REPLACE ":" ";" CMAKE\_PREFIX\_PATH $ENV{CMAKE\_PREFIX\_PATH})

else()

set(CMAKE\_PREFIX\_PATH $ENV{CMAKE\_PREFIX\_PATH})

endif()

endif()

endif()

# list of catkin workspaces

set(catkin\_search\_path "")

foreach(path ${CMAKE\_PREFIX\_PATH})

if(EXISTS "${path}/.catkin")

list(FIND catkin\_search\_path ${path} \_index)

if(\_index EQUAL -1)

list(APPEND catkin\_search\_path ${path})

endif()

endif()

endforeach()

# search for catkin in all workspaces

set(CATKIN\_TOPLEVEL\_FIND\_PACKAGE TRUE)

find\_package(catkin QUIET

NO\_POLICY\_SCOPE

PATHS ${catkin\_search\_path}

NO\_DEFAULT\_PATH NO\_CMAKE\_FIND\_ROOT\_PATH)

unset(CATKIN\_TOPLEVEL\_FIND\_PACKAGE)

if(NOT catkin\_FOUND)

message(FATAL\_ERROR "find\_package(catkin) failed. catkin was neither found in the workspace nor in the CMAKE\_PREFIX\_PATH. One reason may be that no ROS setup.sh was sourced before.")

endif()

endif()

catkin\_workspace()