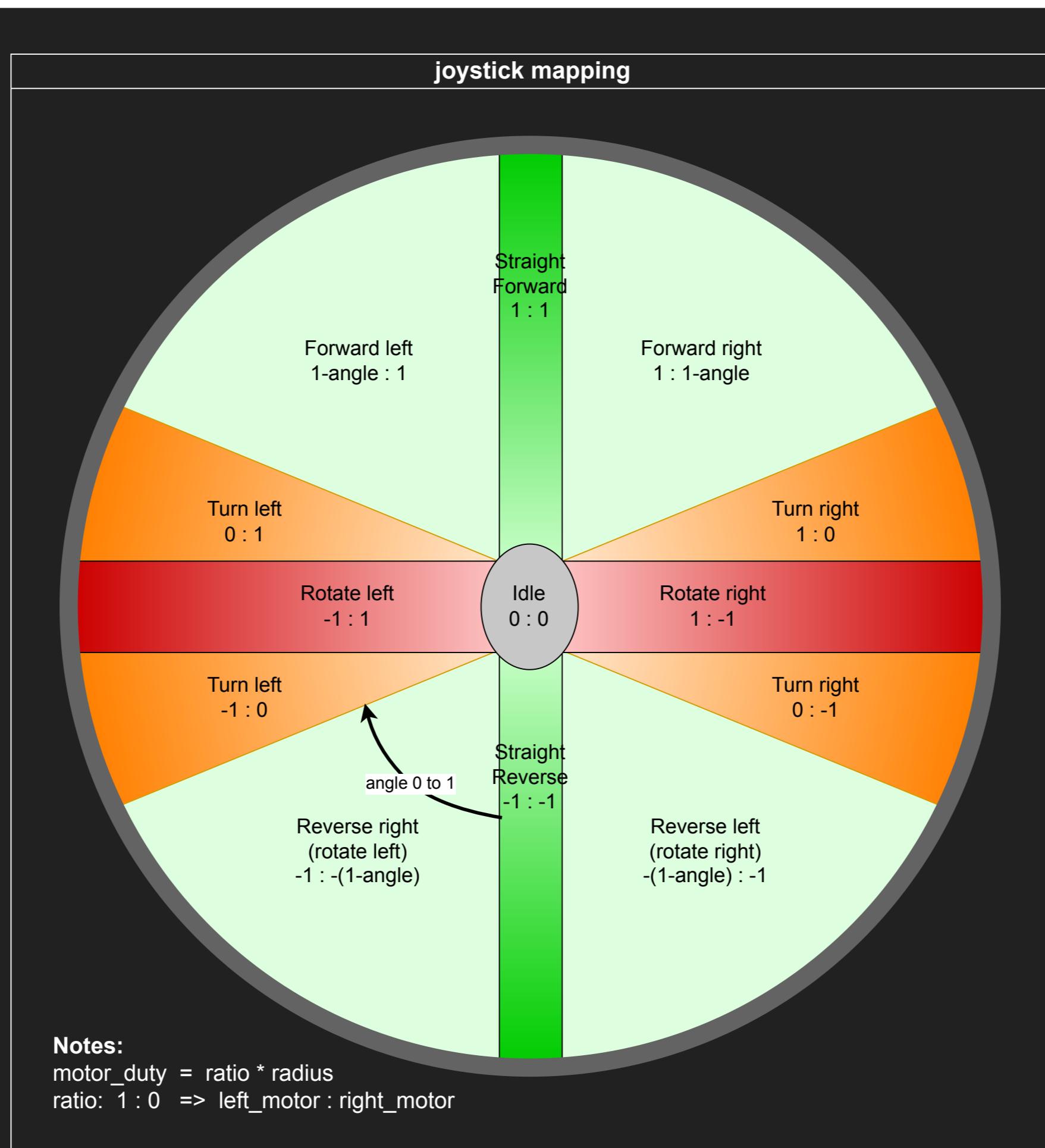
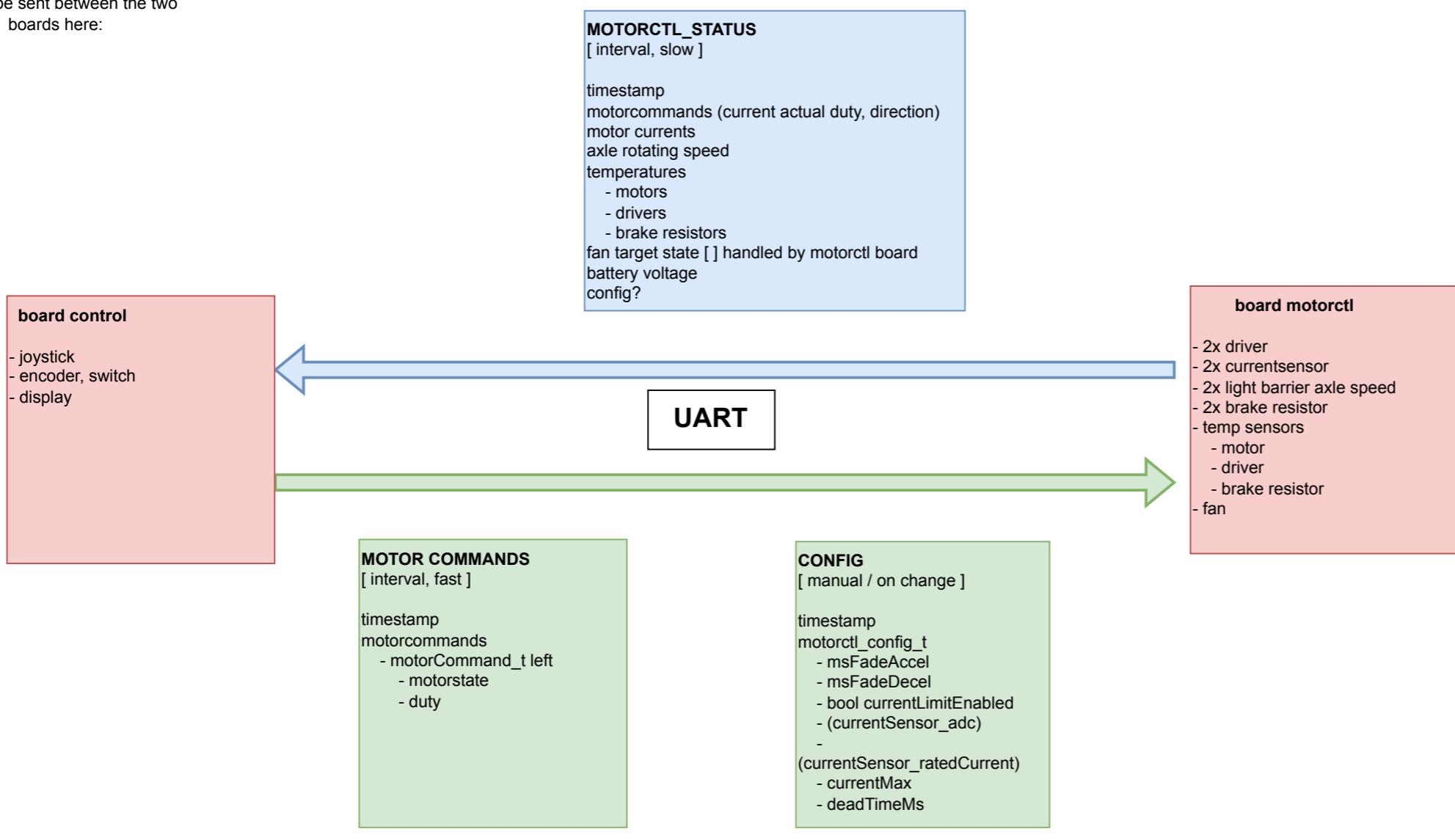


Dark version for Website:

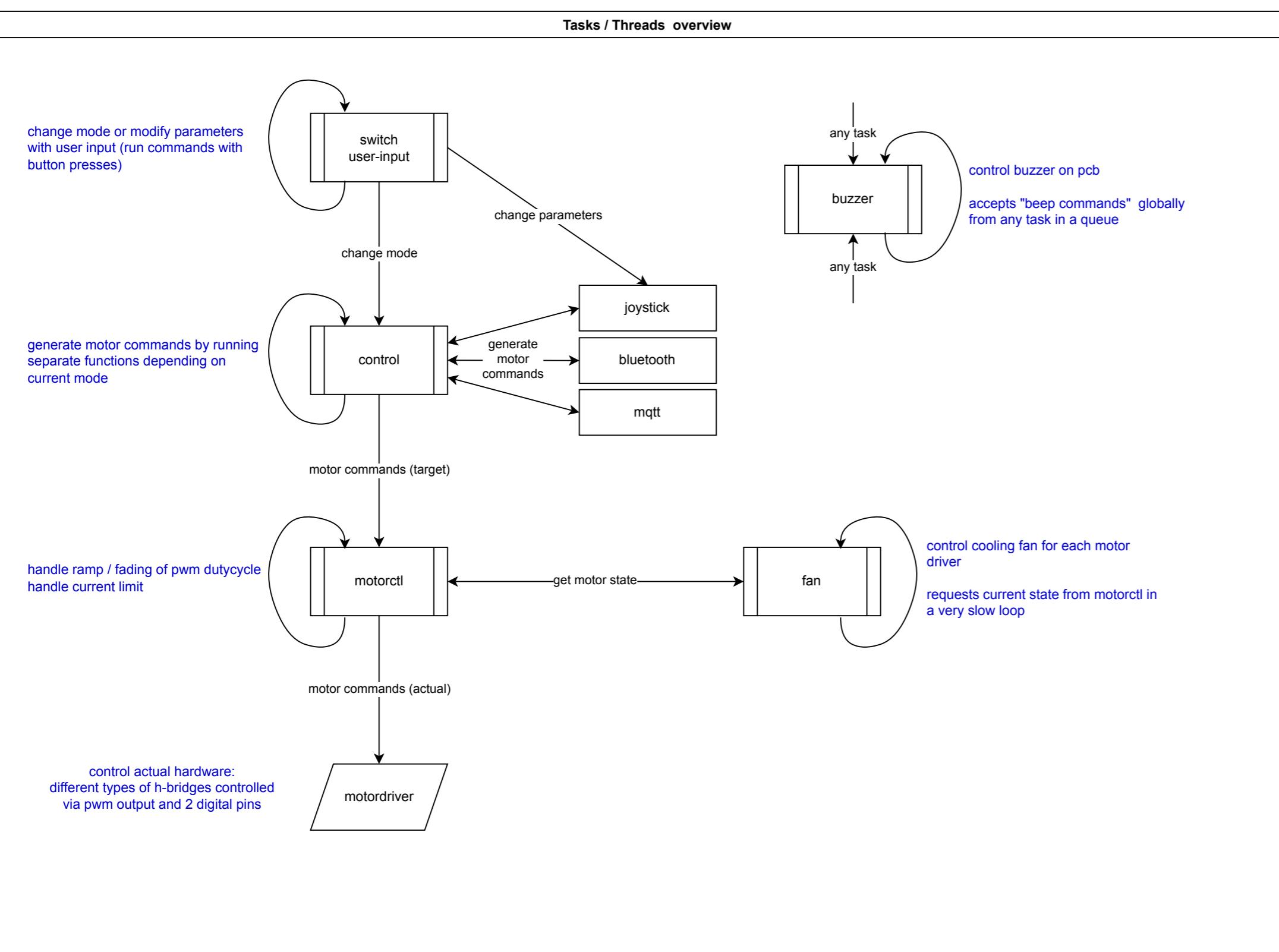


### UART board communication (V2.1)

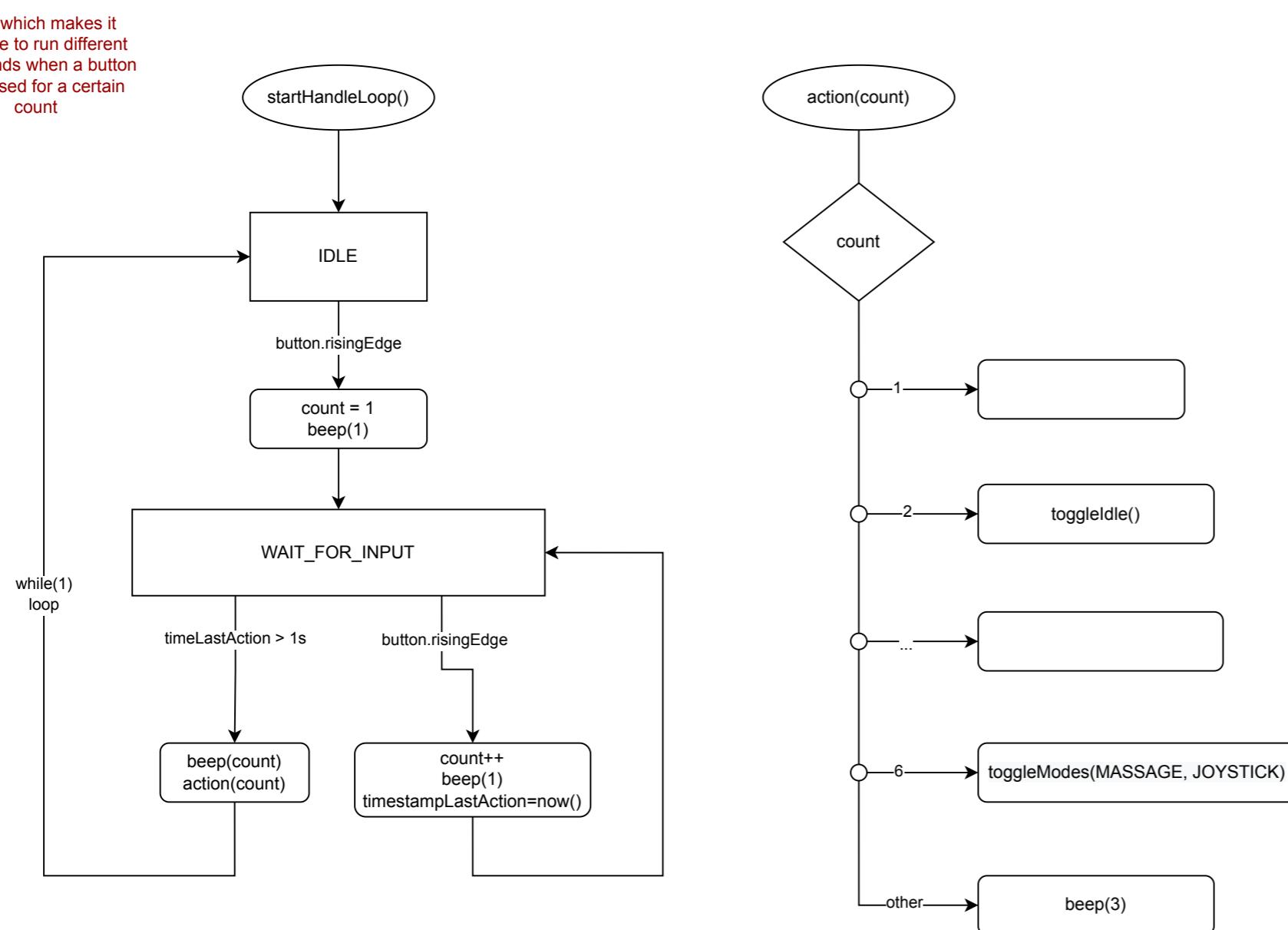
Planning data / structs  
need to be sent between the two  
boards here:



**NOTE:** the below diagrams are significantly outdated -- needs update to match the actual code again



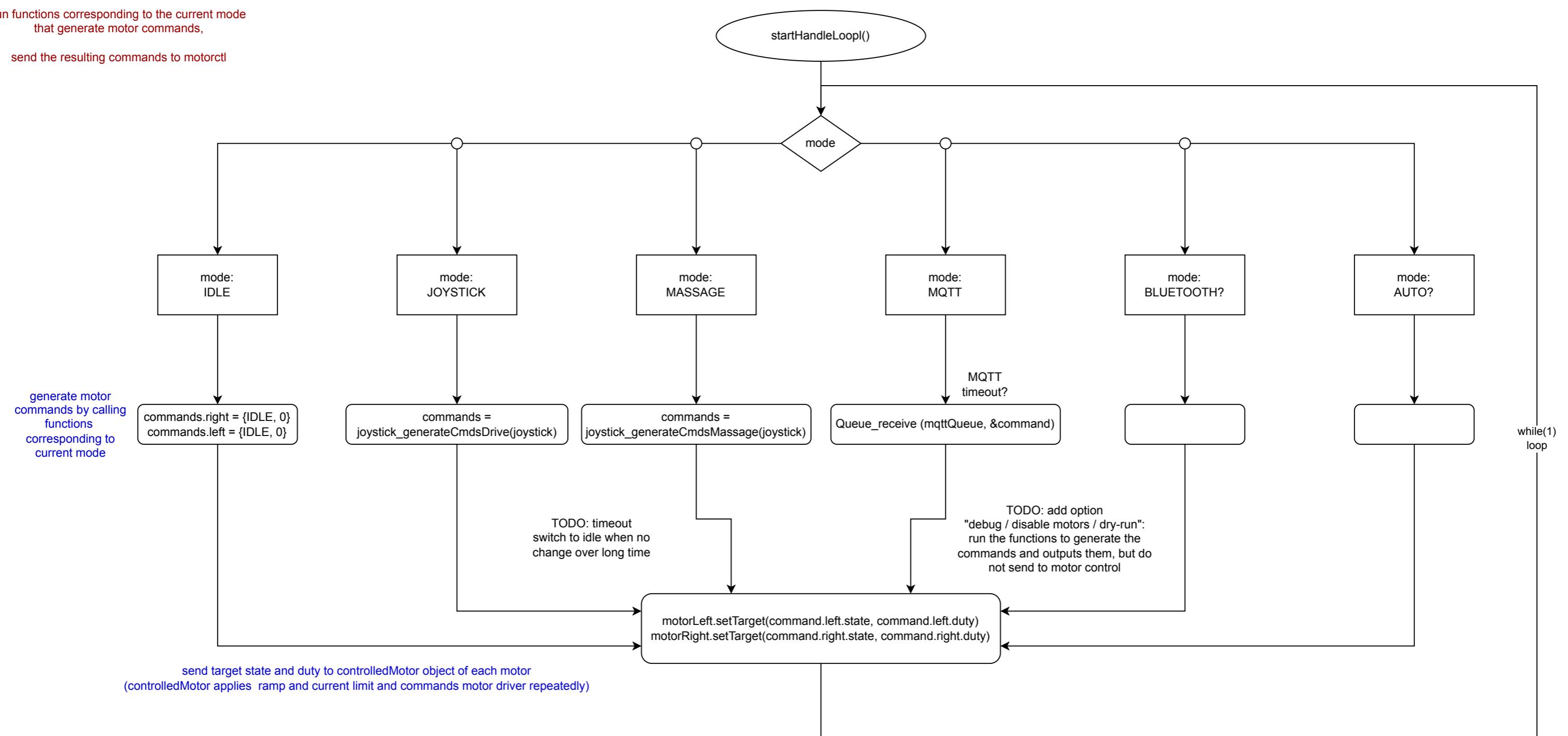
### class buttonCommands (button.hpp, button.cpp)



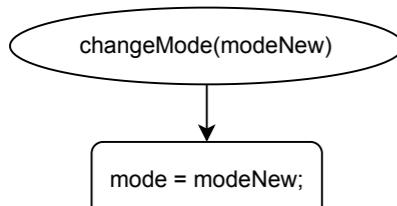
class controledArmchair (control.hpp, control.cpp)

run functions corresponding to the current mode  
that generate motor commands,

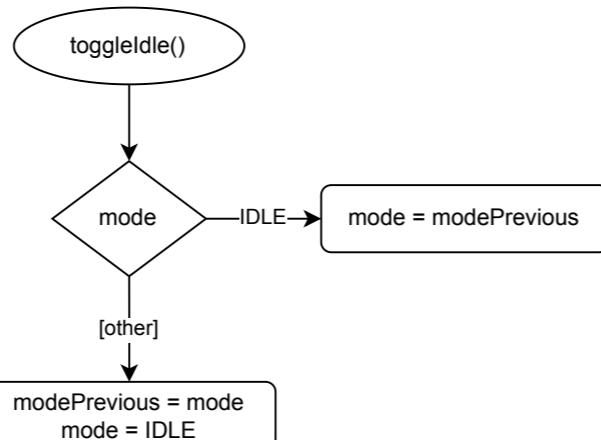
send the resulting commands to motorctrl



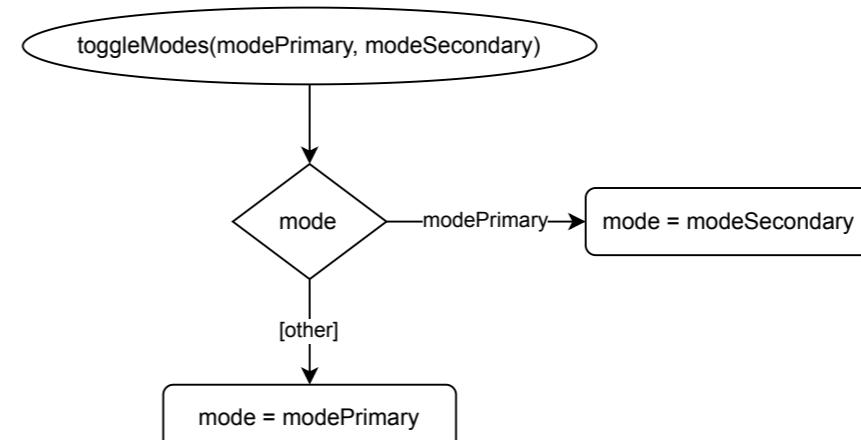
switch to specific mode



toggle between IDLE and previous or default mode



toggle between two specific modes  
e.g. button press switches between MASSAGE and JOYSTICK

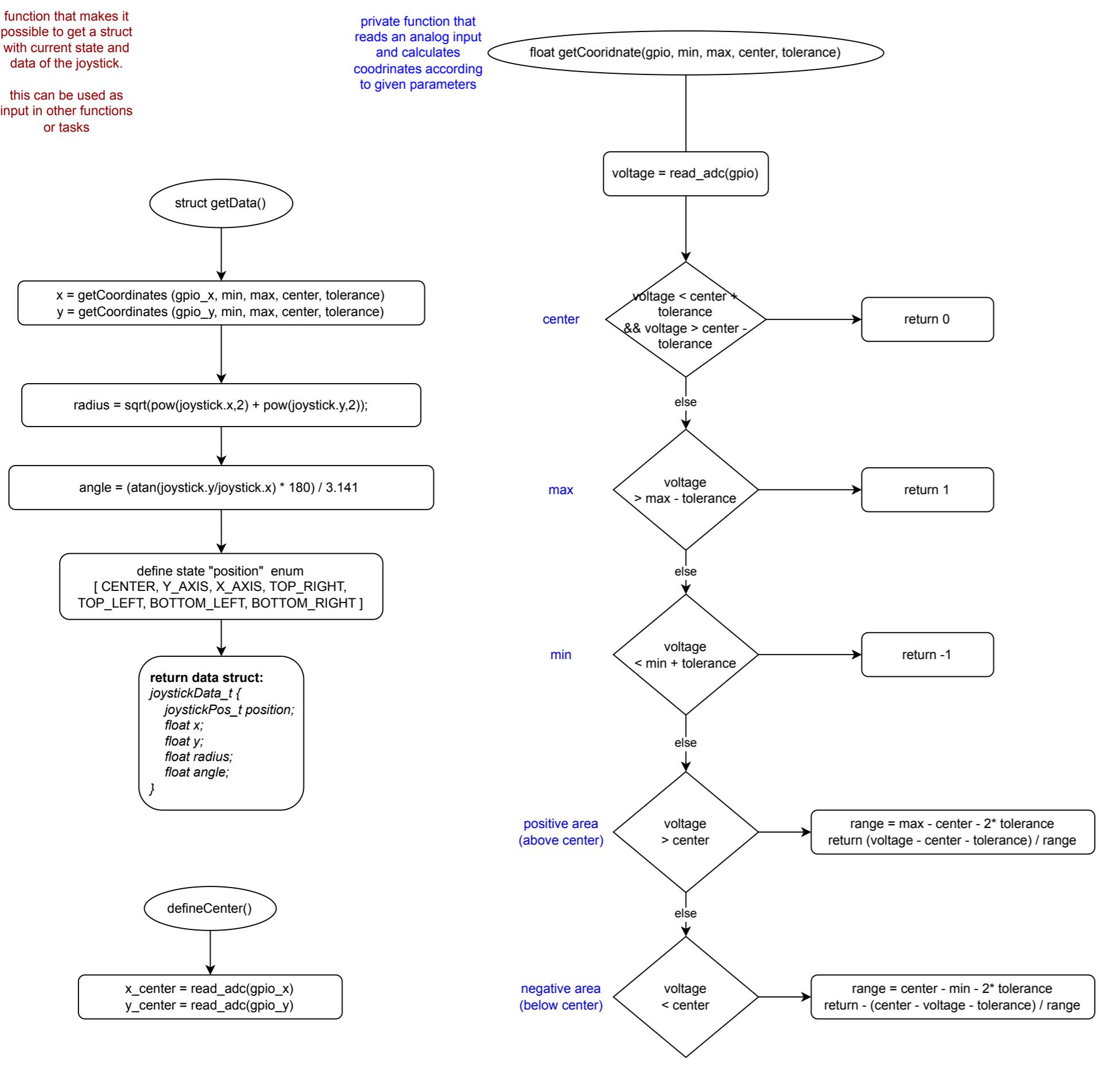


class evaluatedJoystick (joystick.hpp, joystick.cpp)

function that makes it possible to get a struct with current state and data of the joystick.

this can be used as input in other functions or tasks

private function that reads an analog input and calculates coordinates according to given parameters



function: joystick\_generateCommandsDriving

motorCommands\_t joystick\_generateCommandsDriving(evaluatedJoystick)

function that generates motor commands from joystick data

