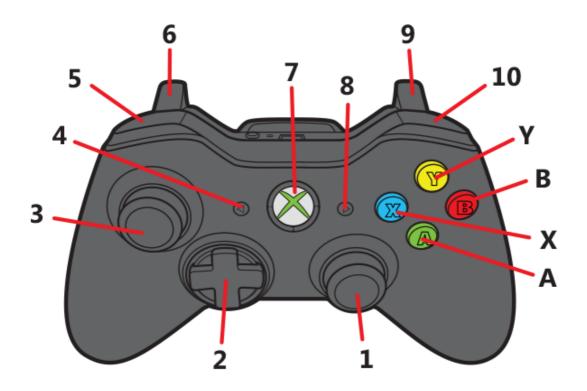
Xbox Controller Button Mapping for arms and wheel

This README file provides a visual mapping of every button on an Xbox controller and its function.



Button Descriptions

- 1. Rigth Stick: Controll Thorvald
- 2. **D-pad**: Controlling end effectors
- 3. Left stick: Controlling arms
- 4. Back Button: Used to decreese the arm speed
- 5. LB Button: Decreese the driving speed
- 6. LT Button: Controll the arm in z-direction, LT is positiv direction
- 7. **Xbox Button**: ----
- 8. Start Button: Increese the arm speed
- 9. RT Button: Controll the arm in z-direction, RT is negative direction
- 10. RB Button: Increese the driving speed
- 11. Y Button: Switches between the end effectors
- 12. **B Button**: Moves the arm to home position, moves the end effector to home position when Y is beeing pressed.
- 13. A Button: Call the homing service that realign the wheels
- 14. X Button: Switches between the arms

L3 and R3 the safety service is called and the robot stops.

More info

LT and RT need to be pressed down completly before they are in use.

L3 is Left stick pressed down, and R3 is Right stick pressed down.

Usage

You can refer to this button mapping diagram when driving thorvald and controlling the arms with the teleop_arm_and_wheels.py

When endeffectors are not active they will follow the arms so that the camera always follows the y-axis (global frame). The tilt will remain from its last setpoint.