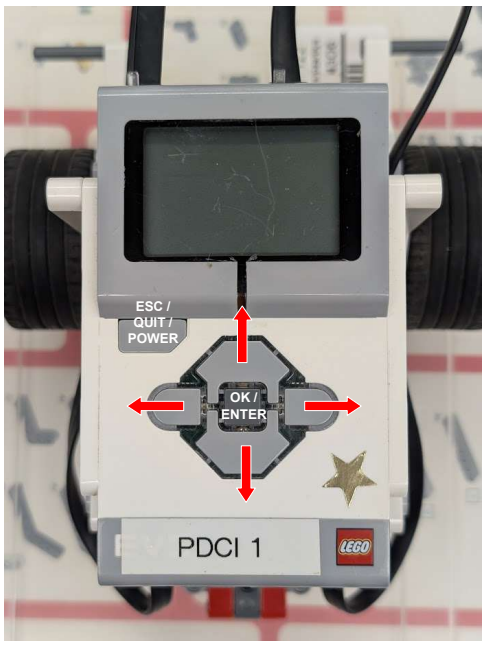
Controlling our EV3



1

The Control Brick



2

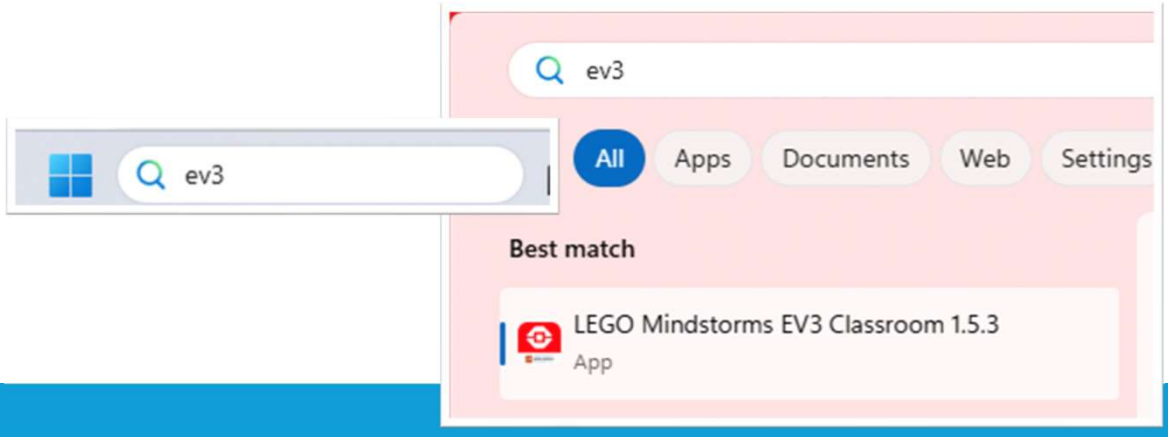
Wiring Devices

- Sensors plug into 1,2,3,4
- Motors plug into A,B,C,D



3

EV3 Software



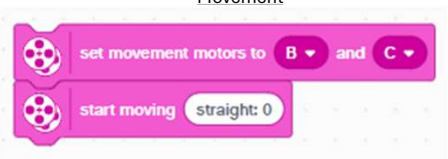
4

“Movement” vs. “Motors” Commands

Magenta ***movement*** commands talk to both motors

Blue ***motors*** commands talk to one individual motor

Movement



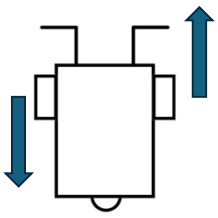
Motors



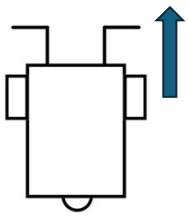
5

TURNING

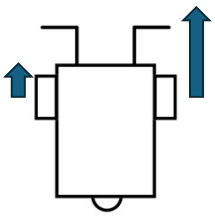
Spin



Pivot

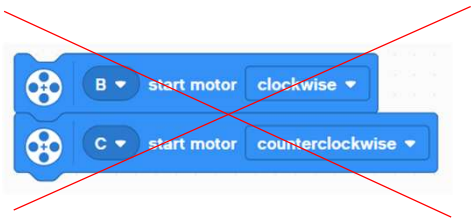


Curve



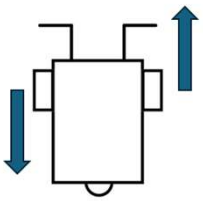
6

TURNING: SPIN





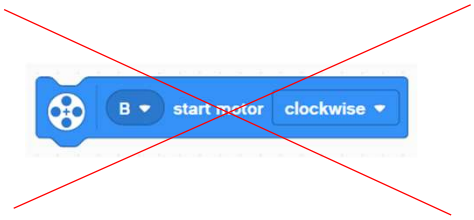
- One wheel driving forward
- One wheel driving backward
- “Tank Style”
- Fastest way to turn
- Least accurate



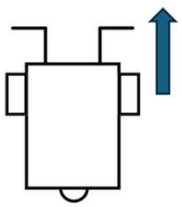
7

TURNING: PIVOT





- One wheel driving forward
- One wheel stopped
- Most consistent and accurate

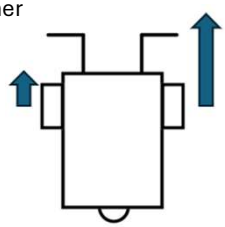


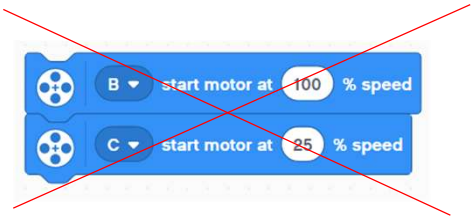
8

TURNING: CURVE



- Both wheels moving forward
- One wheel faster than the other
- Gentlest turning
- Hard to be consistent

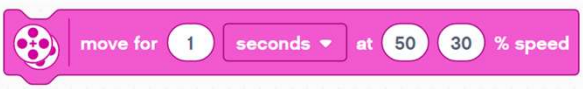




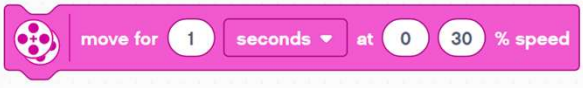
9

Simplest Approach?

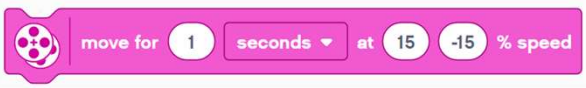




Curve Right



Pivot Left



Spin Right

10

Driving Missions for Today

- Start here
  - Drive forward 3 tiles
  - Drive forward 3 tiles and reverse back to start
  - Drive a square (using a “repeat” loop!)
- Drive a square three times, each time using a different turn at the corners (once using spin, once using pivot, once using curve)
- Done all those? There is a maze!

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