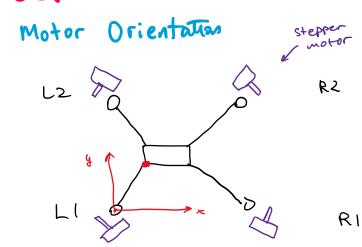
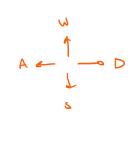
TODO

- Double check motor rotation direction mapping

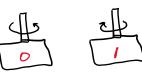
Definitions



WASD



Rotating Direction



chockwise = 1

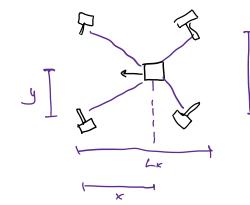
Appondix: Derivatives

$$\frac{\int \sqrt{(L-x)^2 + c}}{\int x} = \frac{x-L}{\sqrt{(L-x)^2 + c}}$$

$$\frac{\int \sqrt{x^2 + c}}{\partial x} = \frac{x}{\sqrt{x^2 + c}}$$

Calculations

Going left (A)



L(:
$$\sqrt{x^2 + y^2}$$

L2: $\sqrt{x^2 + (L_y - y)^2}$

R1: $\sqrt{(L_x - x)^2 + (L_y - y)^2}$
 $\sqrt{\frac{3L_1}{3L}} = \sqrt{\frac{3L_1}{3L}} \sqrt{\frac{3L_2}{3L}} = \sqrt{\frac{x^2 + y^2}{2L}}$

R2: $\sqrt{(L_x - x)^2 + (L_y - y)^2}$
 $\sqrt{\frac{3L_2}{3L}} = \sqrt{\frac{3L_1}{3L}} \sqrt{\frac{3L_2}{3L}} = \sqrt{\frac{x^2 + y^2}{2L}}$

子能= 又,

the notor speeds are ...

$$\frac{\partial L_2}{\partial t} = (\frac{\partial x}{\partial x}) \frac{\partial t}{\partial t} = \frac{x}{\sqrt{(L_x - x)^2 + y^2}}$$

$$\frac{\partial R_1}{\partial t} = \frac{x - L_x}{\sqrt{(L_x - x)^2 + y^2}}$$

$$\frac{\partial R_2}{\partial t} = \frac{x - L_x}{\sqrt{(L_x - x)^2 + y^2}}$$

Going from (xo, yo) to (x, y)