











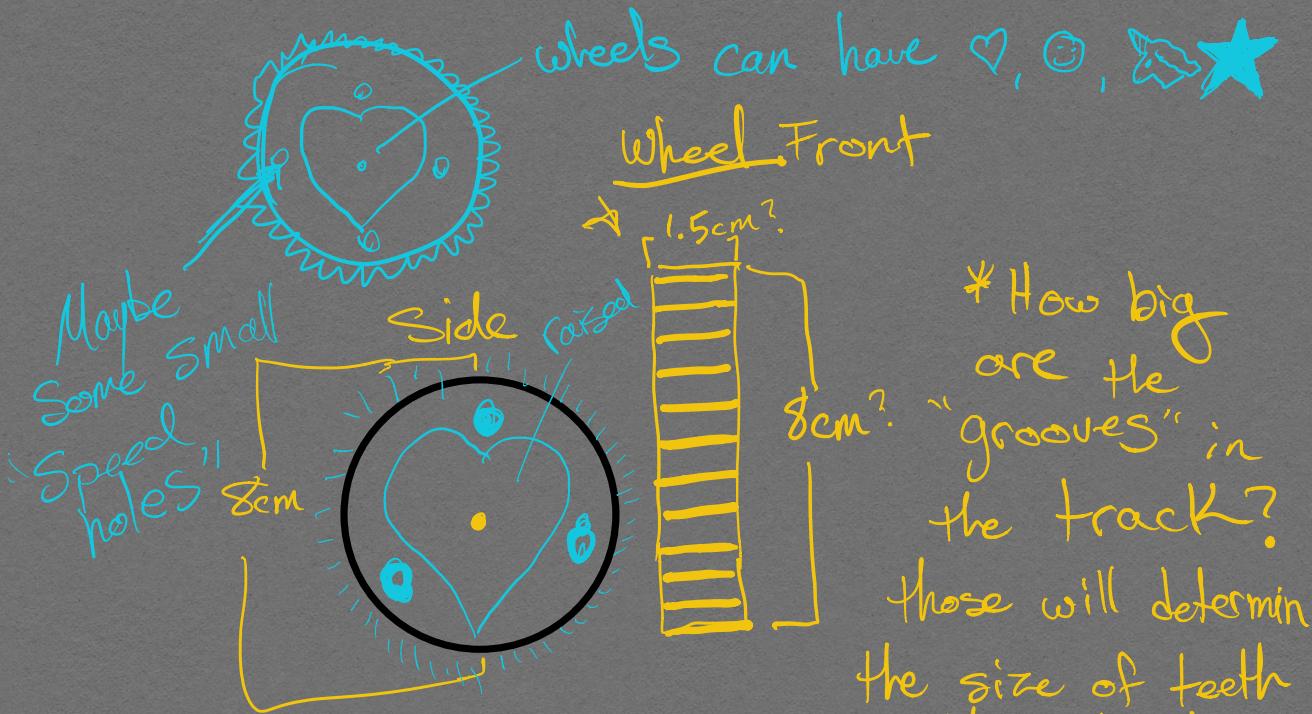
What is the total volume  
of our components?

Board + Motors + Power supply  
+ Sensor + wiring  
 $= X \text{ cm}^3 ?$

→ This will determine Body Size

→ This will determine wheel size

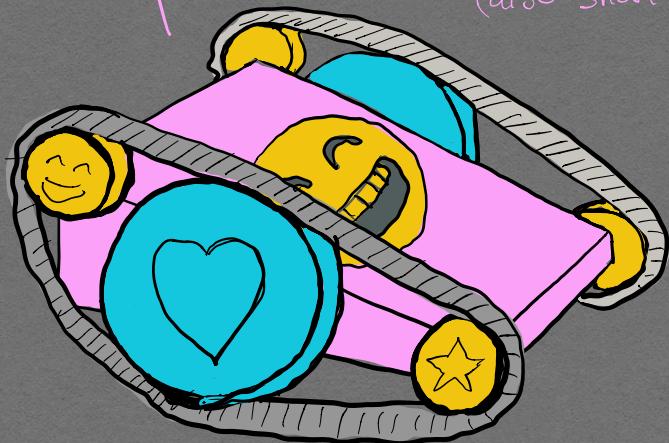
→ 3D Design wheels asap!



- Body → Pink ?
- Smily → Yellow ?
- Wheels → Blue. & Yellow  
small ?

*"I DRIVE  
TO MY DEATH!"* Big

Life-Long Existential M isery  
(also short for Lemmings:)



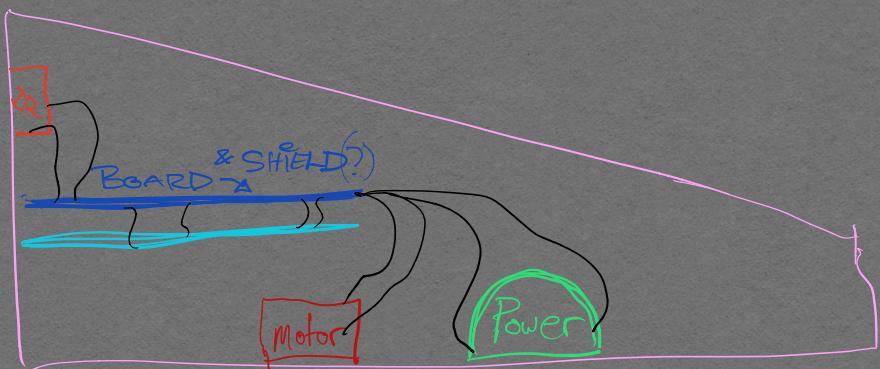
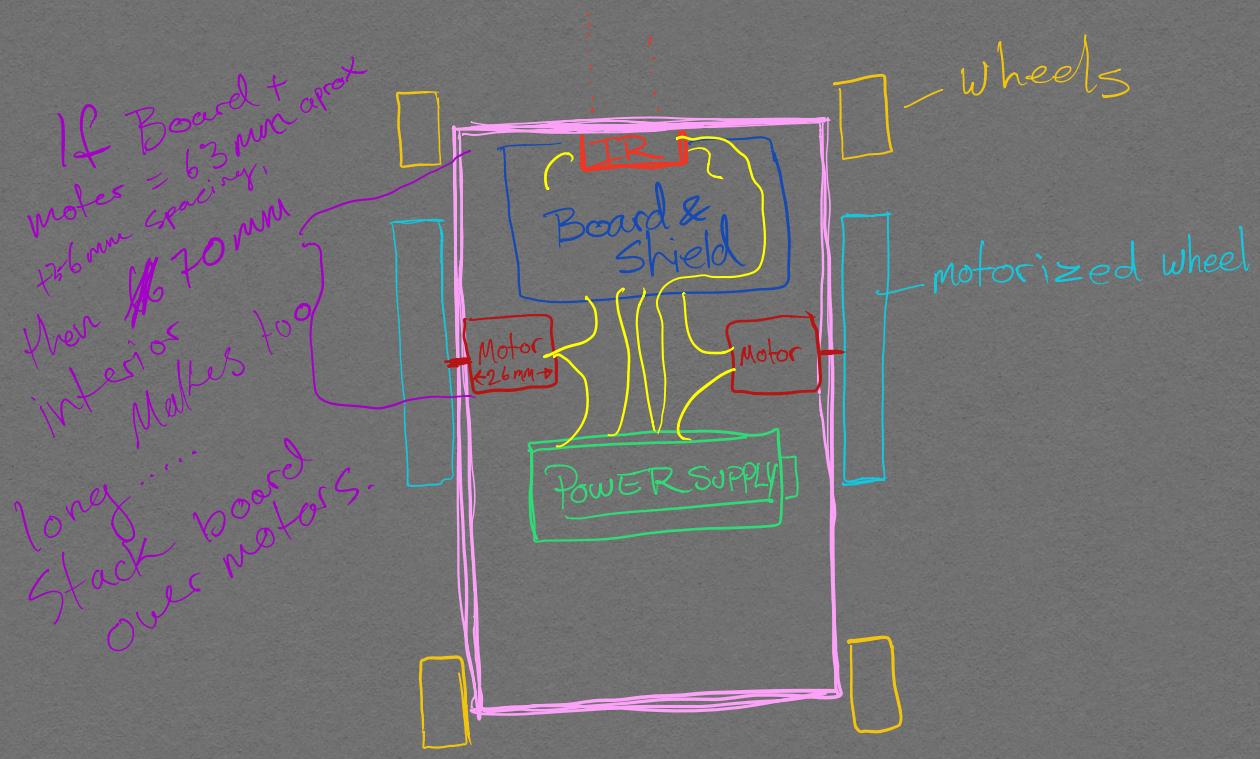
- Arduino Nano =  $18 \times 45$  mm

⇒ Arduino Uno =  $53 \times 68$  mm

- Motor (110RPM micro gear motor - 6-12V)  $\xleftrightarrow{35.5}$  (including drive shaft 26W)

- Shield samiish =  $53 \times 68$

- Grove IR Distance interrupter  $\rightarrow$  small



Body could be 8mm ply. However, most motor drive shafts are 9mm, we need a few mm of distance from the body + solid connection to the wheels. → probably closer to 20mm

