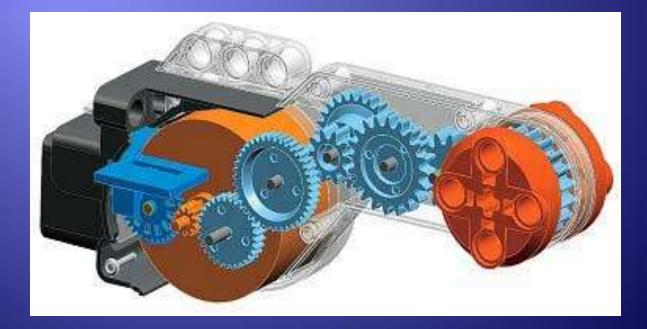
The Details

Motors, Moving, & Math



Rotation sensors...



Making Your Robot Turn

Accurate Turning Formula



Making Your Robot Turn

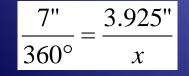
Let's say the wheel diameter = 2.25"
The wheel circumference = pi * 2.25 = 7"
So one rotation = 360 degrees = 7"

Track distance = 5"
So spin circumference = pi * 5 = 15.7"

•If one full spin = 15.7" then ¼ turn = 15.7 / 4 = 3.92"

•So to make a spin turn, each wheel moves 3.9"....remember, each wheel must spin in the opposite direction!

•Finally, how many degrees will the wheel spin?



7x = 1413 $x = 201.8^{\circ}$



