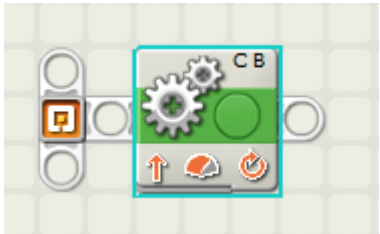



# Coaches' Workshop 2010 Programming

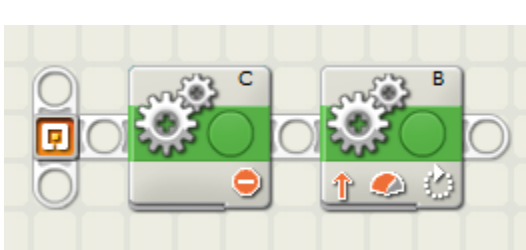
## Moving Forward

	<p><b>Configuration</b> Change duration to 3 rotations</p> <p><b>Try This!</b> See what happens when you vary the direction, duration, and power</p>
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## Point Turn

	<p><b>Configuration</b> Turn slider all the way to the left Duration is 360 degrees</p> <p><b>Try This!</b> Vary the direction, duration and power of the turn. Try to turn the robot 90 degrees.</p>
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## Swing Turn

	<p><b>Configuration</b> 1<sup>st</sup> Move Block: Motor C only, stopped 2<sup>nd</sup> Move Block: Motor B only, duration is 360 degrees (not rotations)</p> <p><b>Try This!</b> Turn the opposite direction by changing the settings. Adjust the duration to turn precisely 90 degrees.</p>
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## Move Until Touch

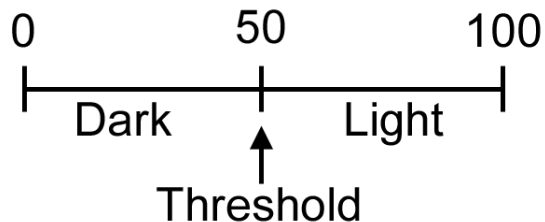
	<p><b>Configuration</b> 1<sup>st</sup> Block: Unlimited duration 3<sup>rd</sup> Block: Stopped</p> <p><b>Try This!</b> Configure the wait block to wait for time instead of a touch sensor reading.</p>
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## Calculating Threshold

Light Value: \_\_\_\_\_

Dark Value: \_\_\_\_\_

Average (threshold): \_\_\_\_\_



## Move Until Dark



### Configuration

- 1<sup>st</sup> Block: Unlimited Duration
- 2<sup>nd</sup> Block: Wait until *less than* your threshold
- 3<sup>rd</sup> Block: Stop

### Try this!

Vary the threshold. What happens?  
Vary the 1<sup>st</sup> Block's power level.

## Sound Block



### Configuration

Sound file: !Attention

### Try This!

Change the sound file.  
Play a tone instead of a file.  
Play a sound when the touch sensor is pressed.

## Display Block



### Configuration

- 1<sup>st</sup> Block: Text = "Programming"
- 2<sup>nd</sup> Block: Uncheck "Clear"; Line = 5; Text = "is fun!"

### Try This!

Display pictures instead of text  
Put the text on three lines instead of two