

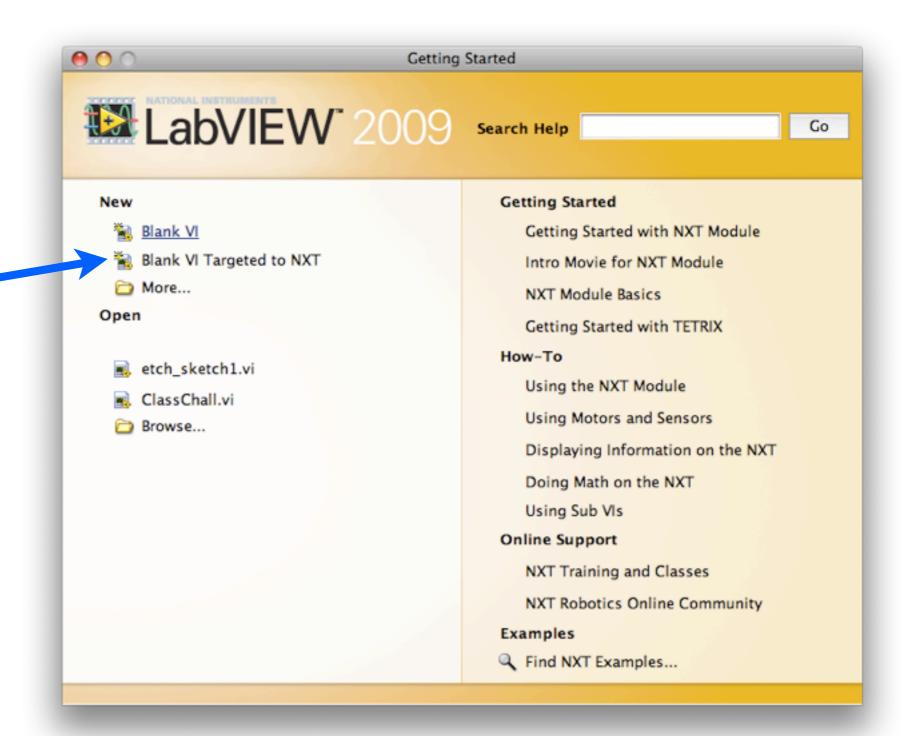
PREVIOUS ACTIVITY





Make a New VI

Make a new VI
Targeted to NXT

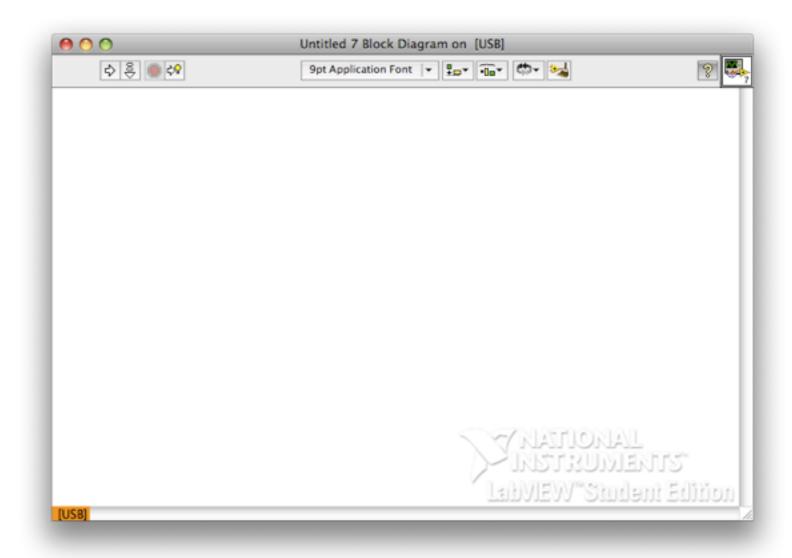




Open the Block Diagram

Bring up the **Block Diagram**

- Control-E
- Window >> ShowBlock Diagram

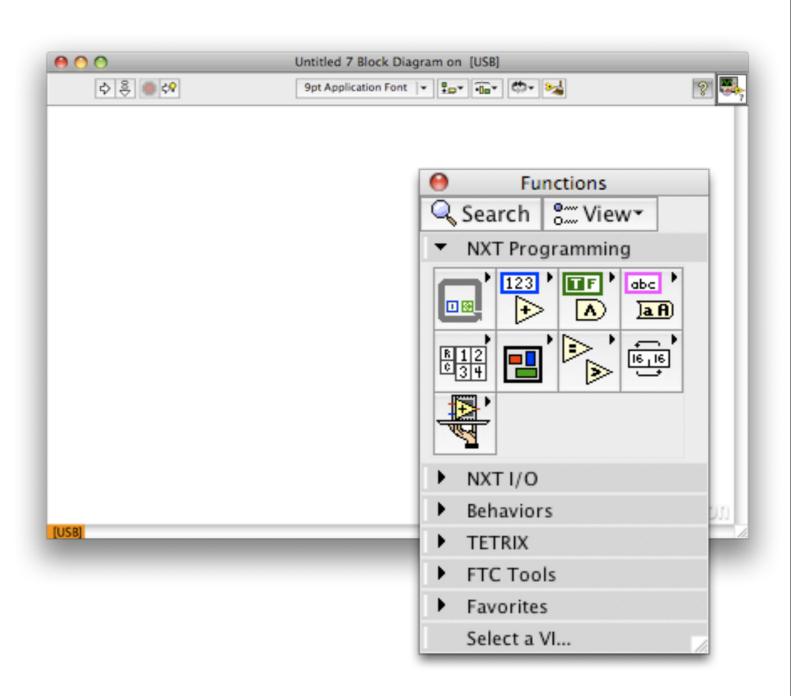




Functions Palette

Bring up the Functions Palette

- Left Click
- View >> FunctionsPalette

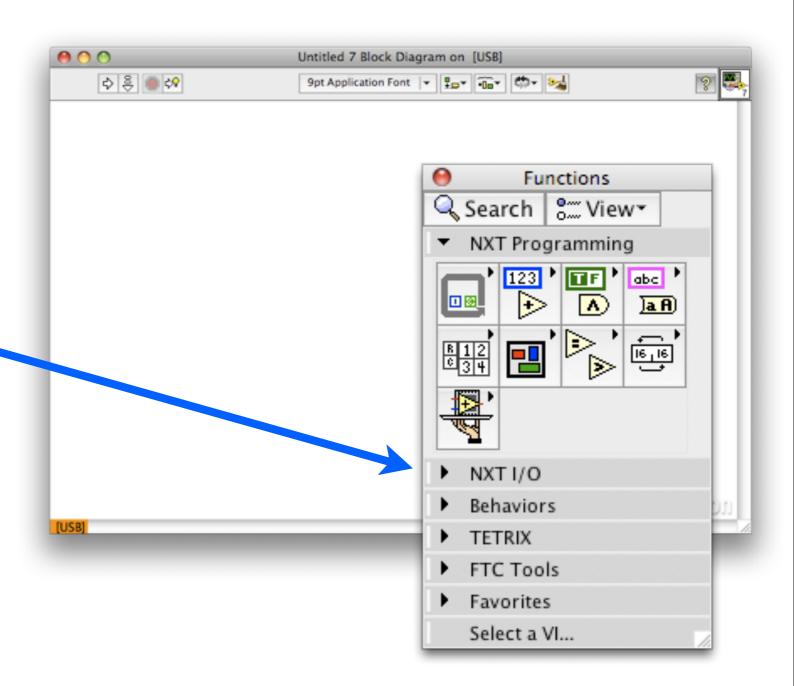




NXT I/O

Select the NXT I/O Menu

– Click NXT I/O

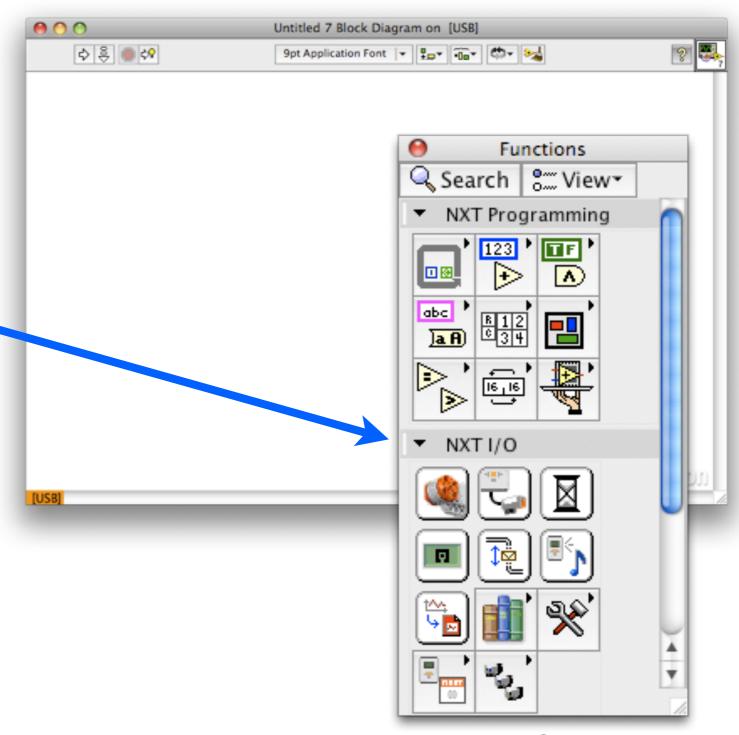




NXT I/O

Select the NXT I/O Menu

- Click NXT I/O

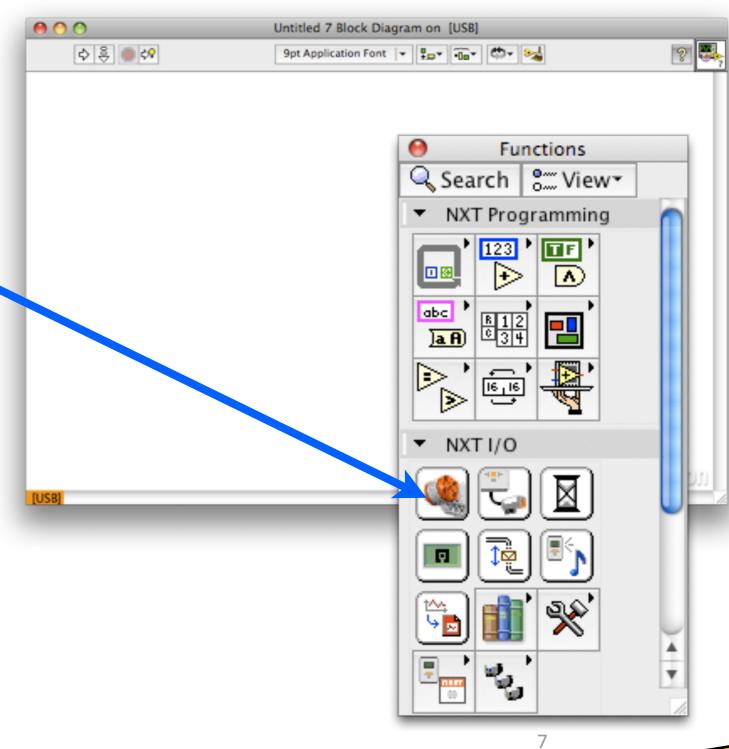


RoboJackets



NXT Motors

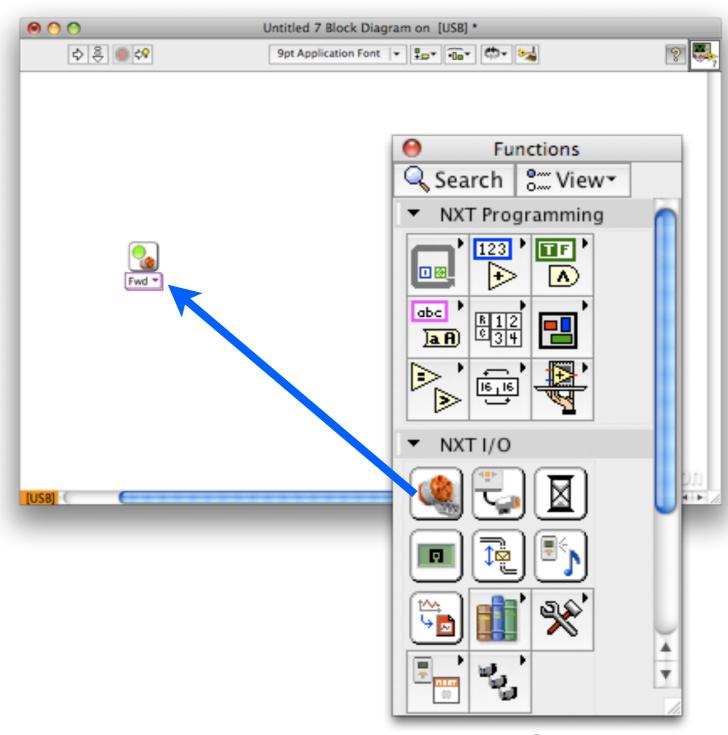
Drag a **Motor** into the VI





NXT Motors

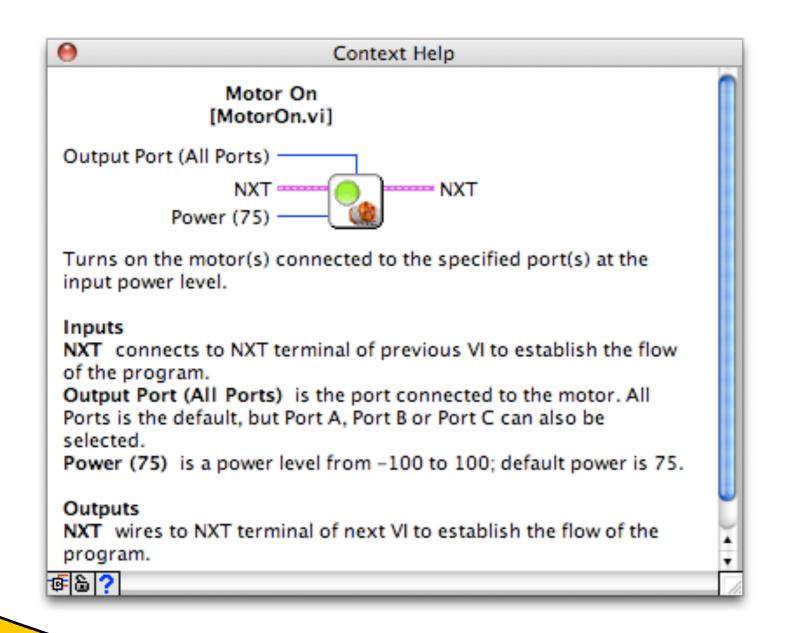
Drag a **Motor** into the VI



ReboJackets



NXT Context Help

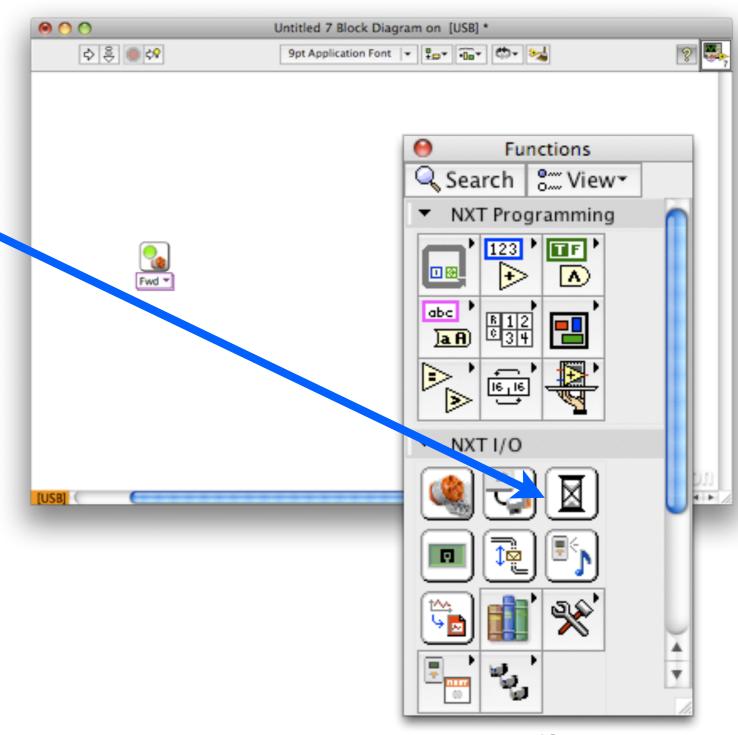


Context Help shows us how to connect to the motor VI

- CNTRL-H
- Help >>Context Help



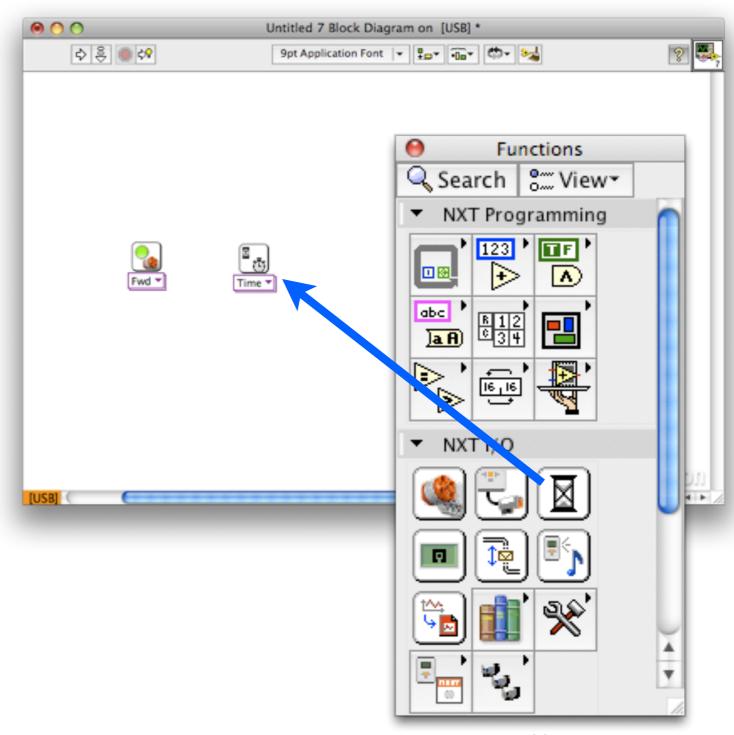
Drag a **Timer** into the VI



RoboJackets



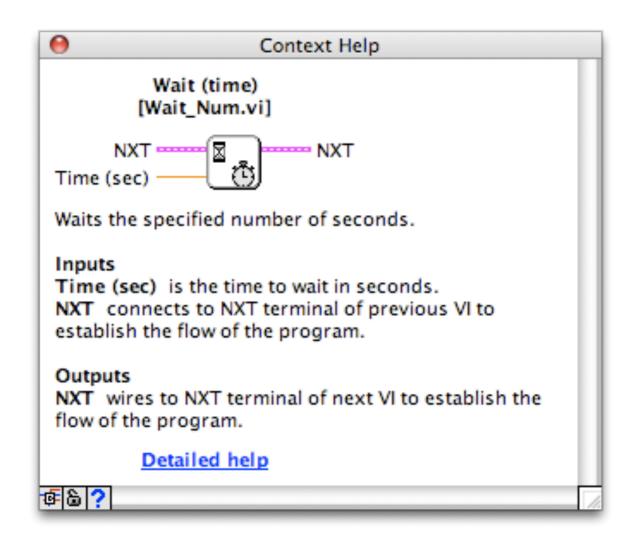
Drag a **Timer** into the VI



ReboJackets



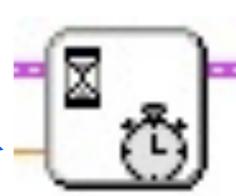
NXT Context Help



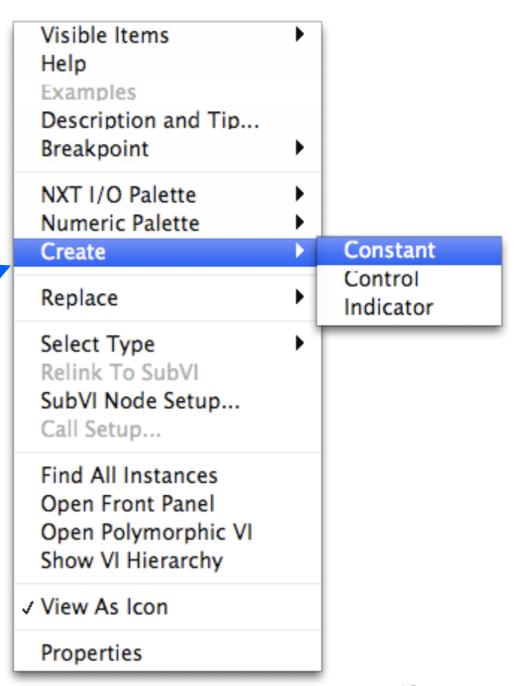
Examine the Context Help to Specify the time



Right Click on the **Time** input

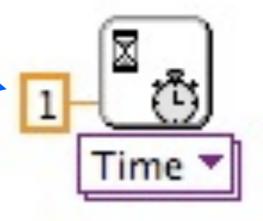


Select
Create >> Constant



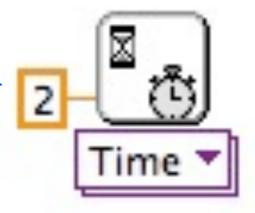


Change value to 2



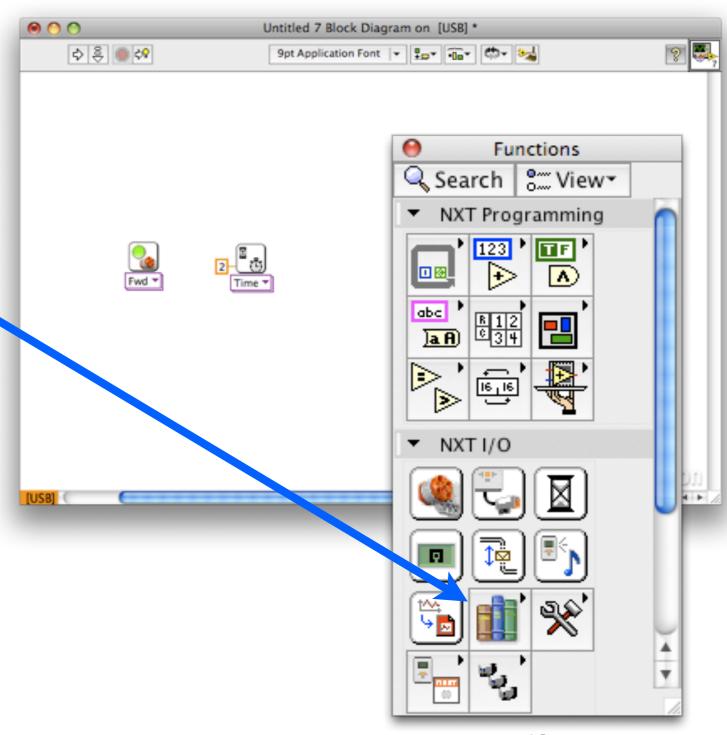


Change value to 2





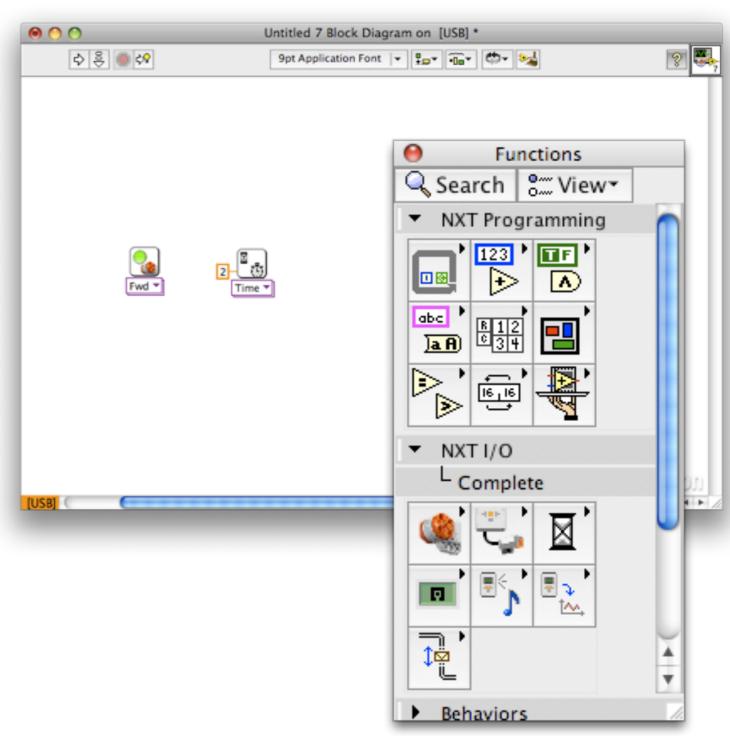
Click Complete



Robeleckets



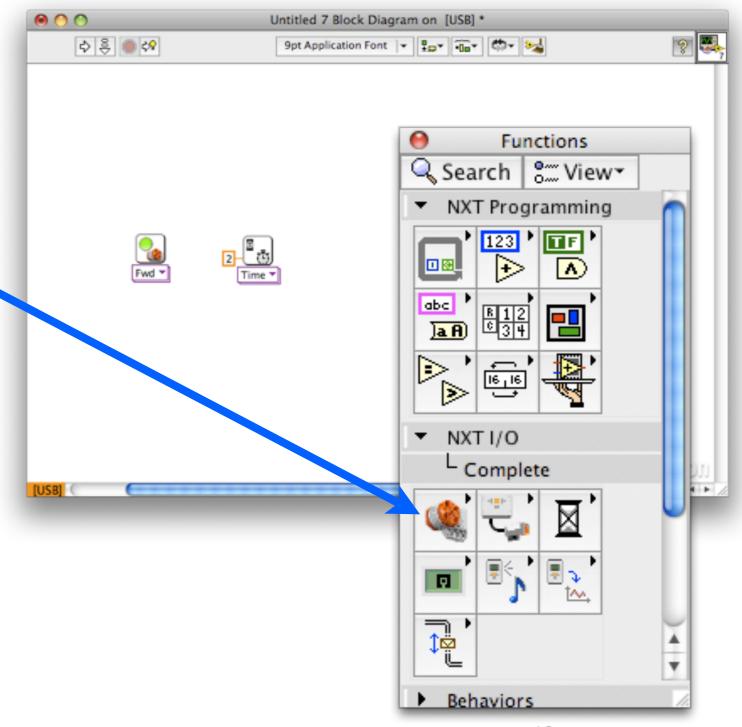
Click Complete



RoboJackets



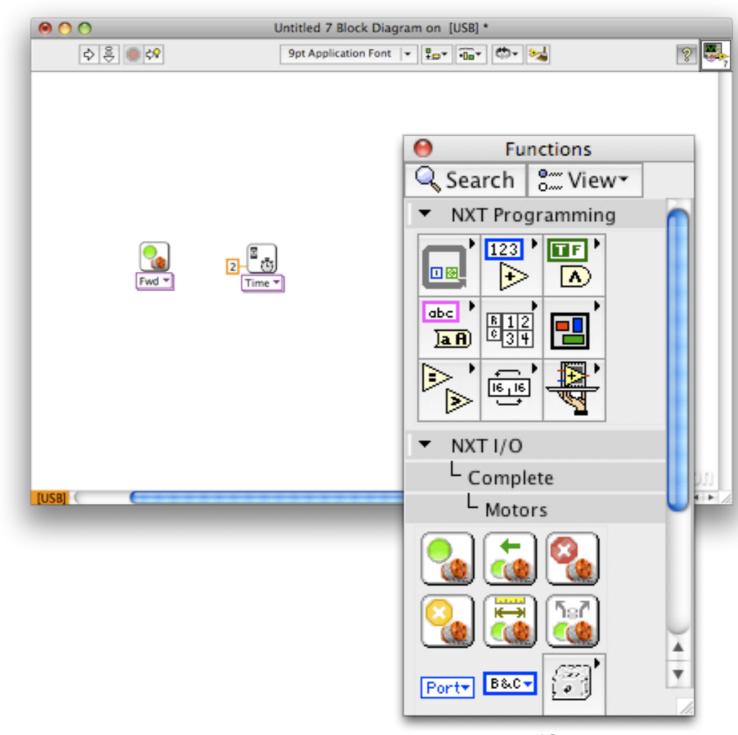
Click Motors



ReboJackets



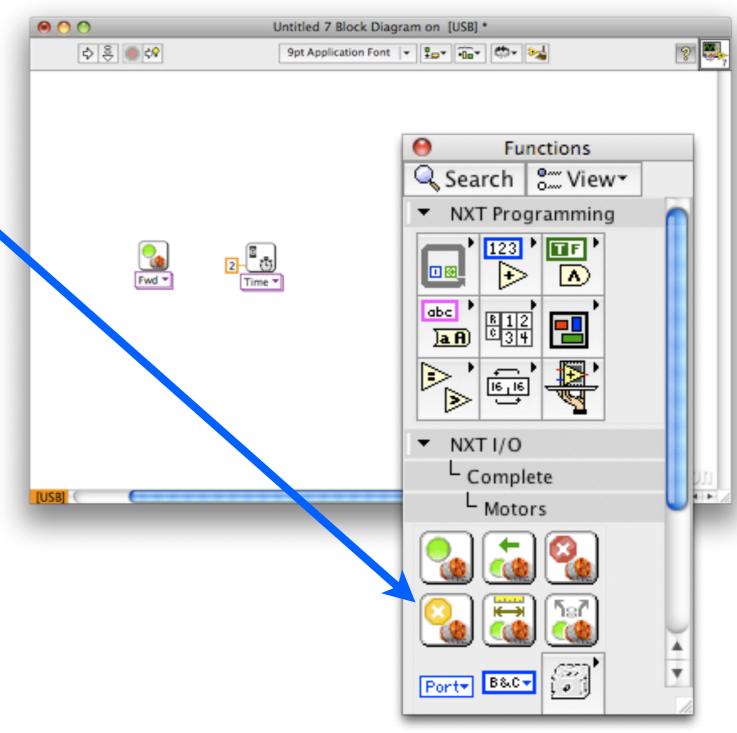
Click Motors



RoboJackets

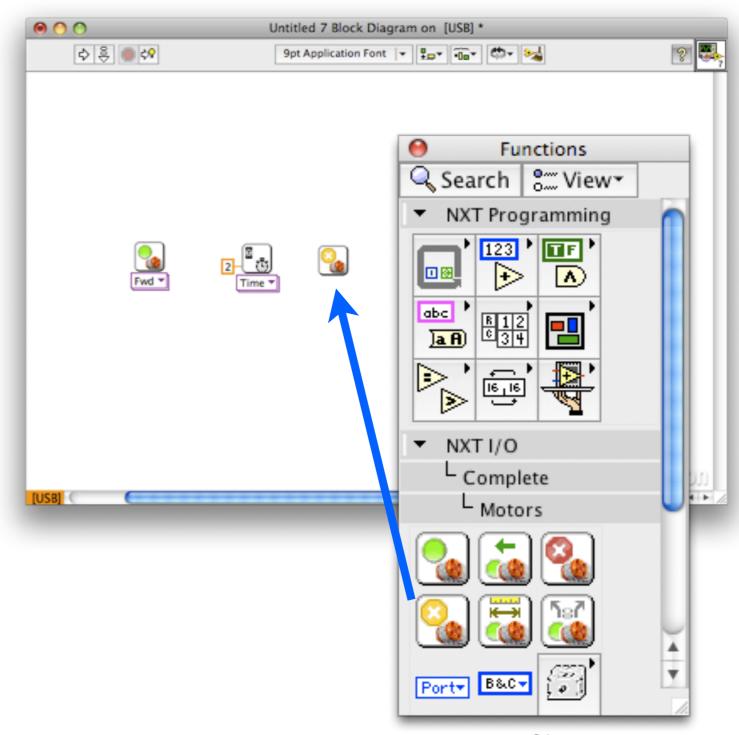


Drag Motor Coast onto the block diagram



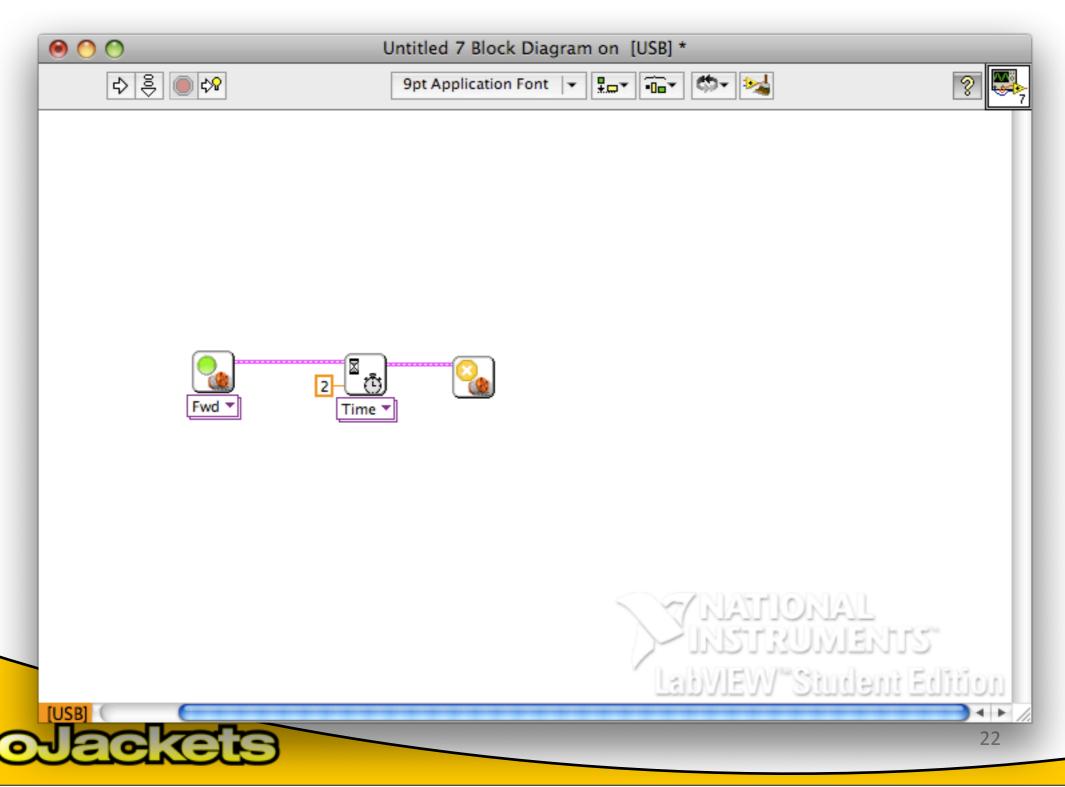


Drag Motor Coast onto the block diagram





Wire the Blocks Together





Running and Deploying the VI

- Connect the NXT
- Run the VI by pressing the Run button
- Load the VI onto the NXT with the **Deploy** button







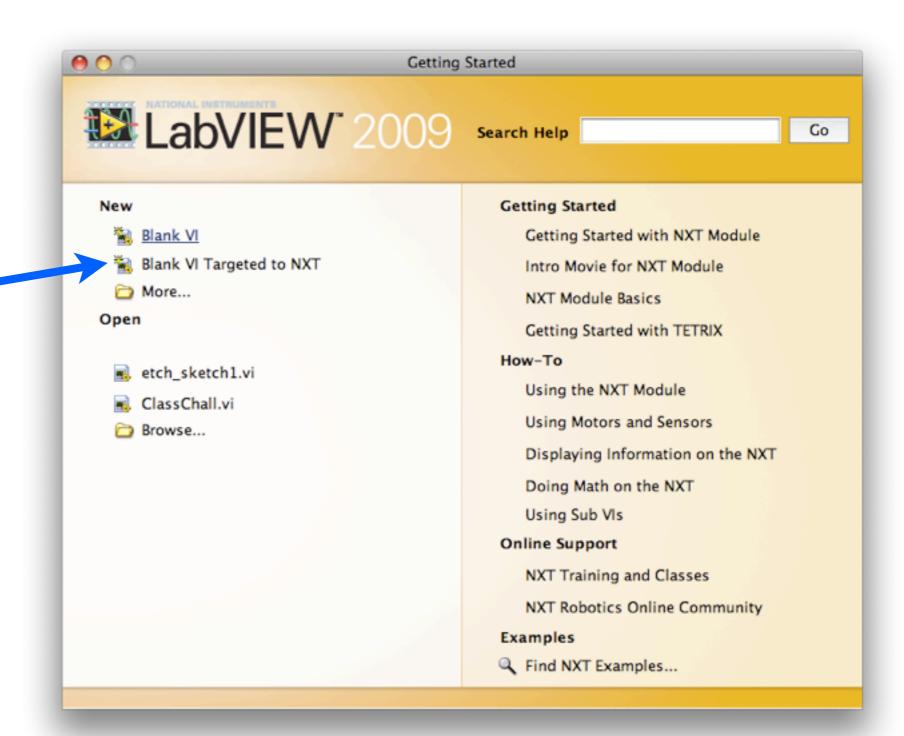
USING TETRIX MOTORS





Make a New VI

Make a new VI
Targeted to NXT

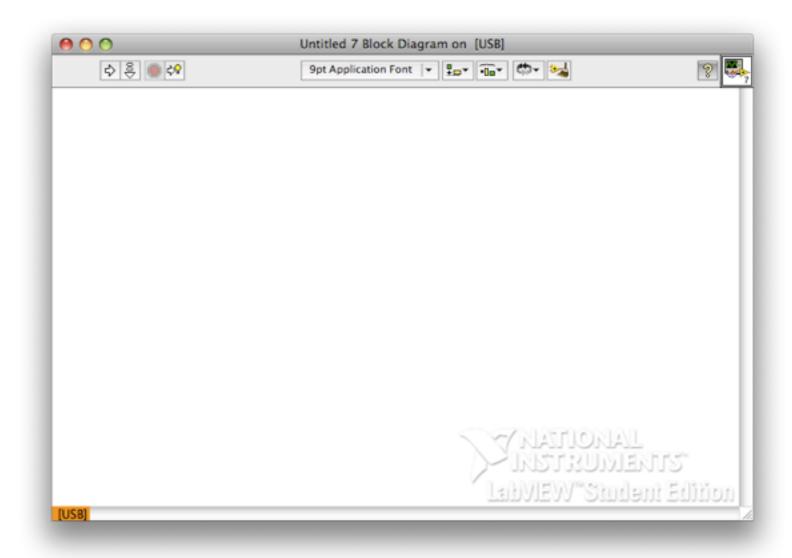




Open the Block Diagram

Bring up the **Block Diagram**

- Control-E
- Window >> ShowBlock Diagram

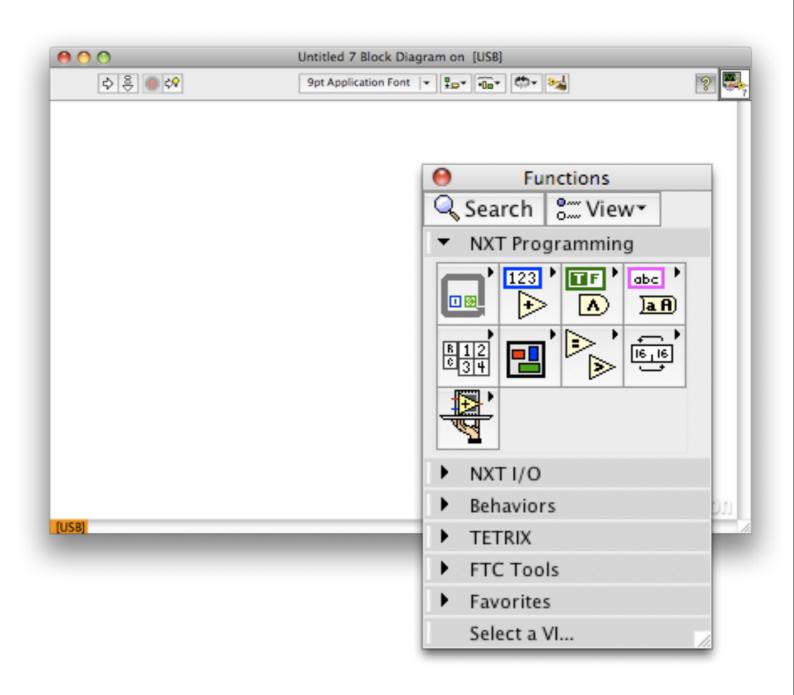




Functions Palette

Bring up the Functions Palette

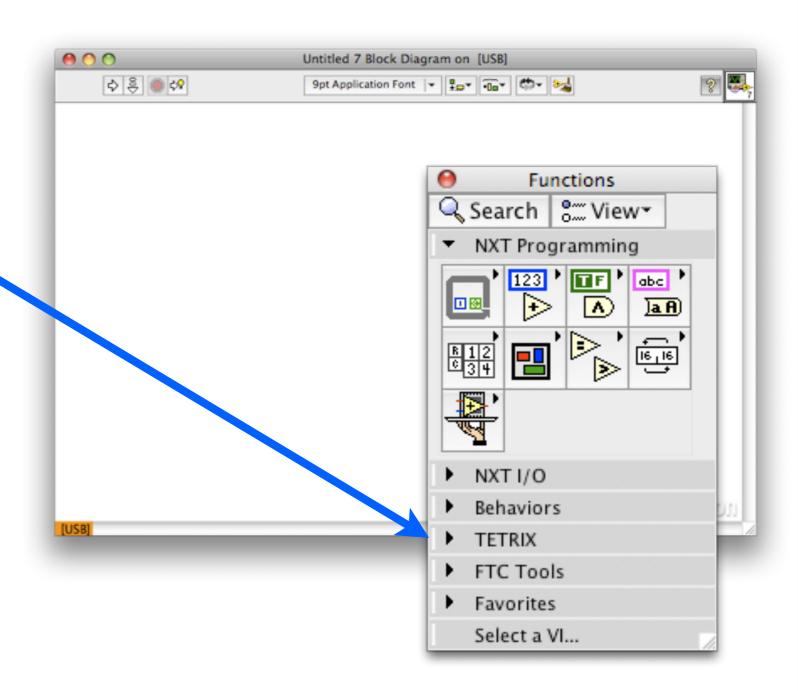
- Left Click
- View >> FunctionsPalette





TETRIX Palette

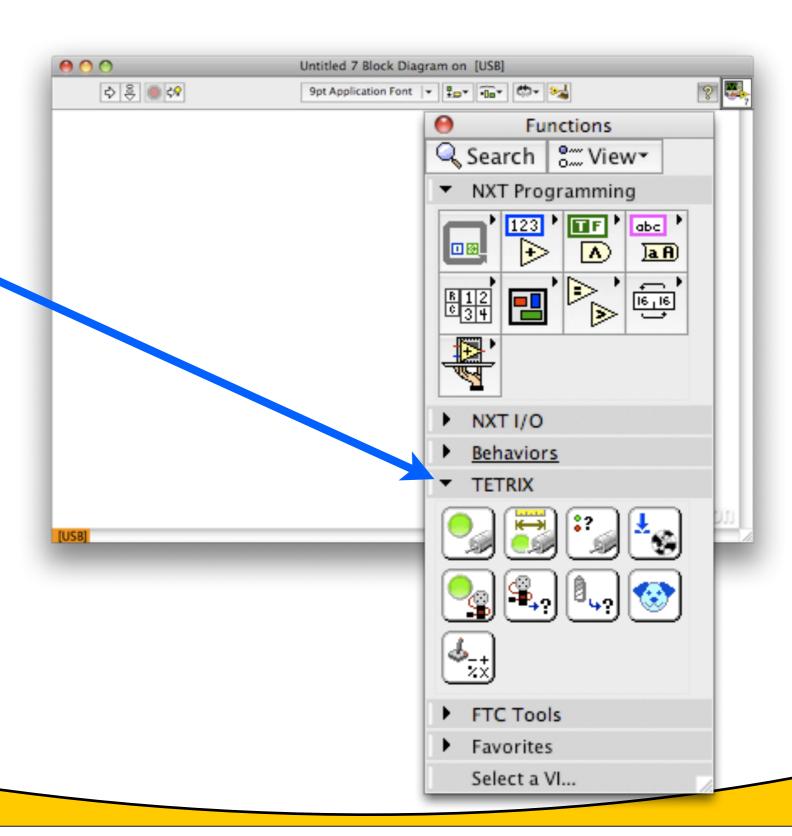
Select the TETRIX Palette





TETRIX Palette

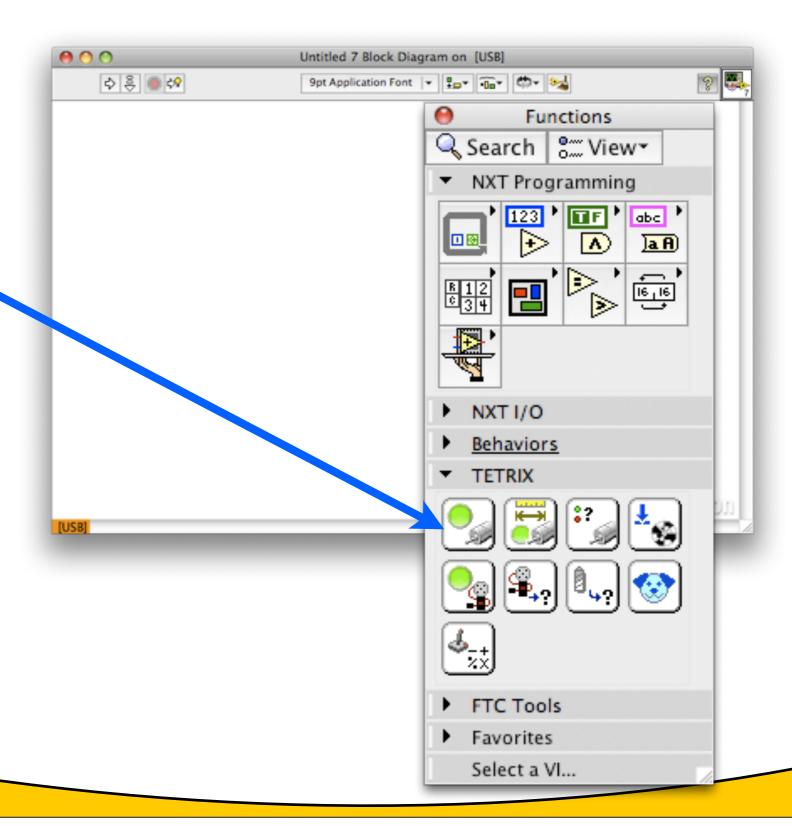
Select the TETRIX Palette





TETRIX Motor

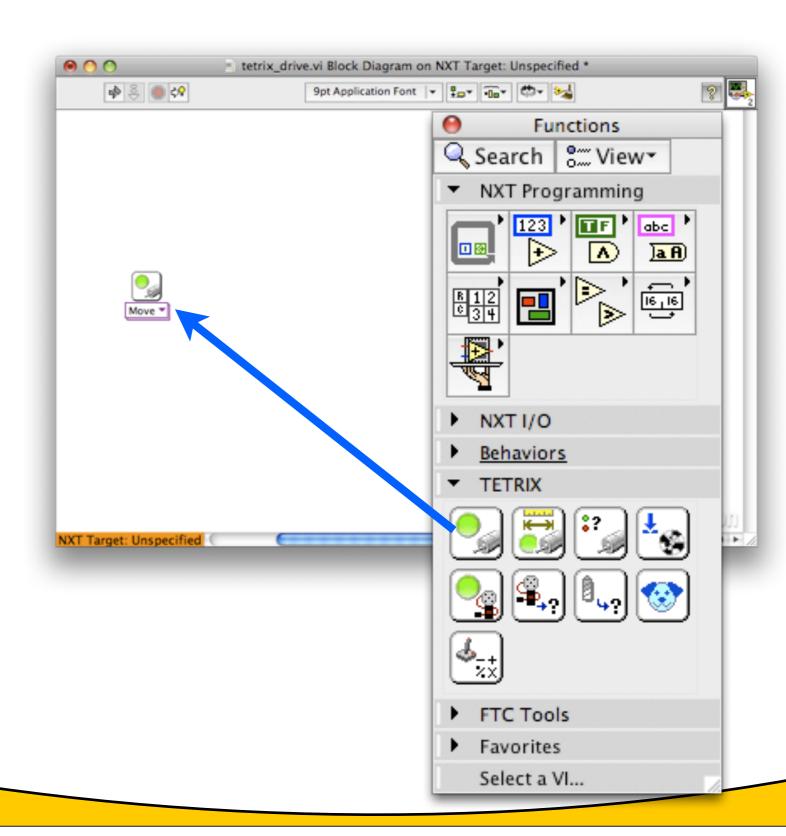
Drag on a TETRIX Motor





TETRIX Motor

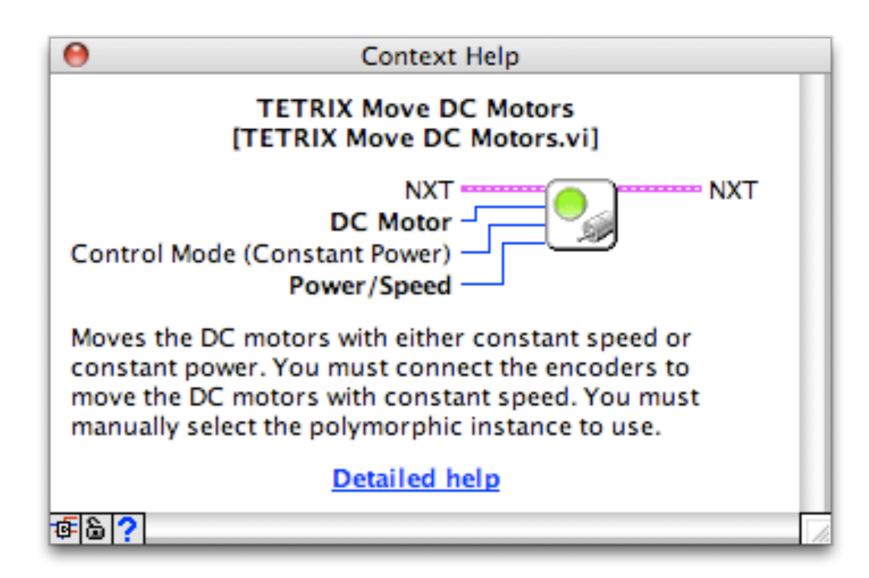
Drag on a **TETRIX Motor**





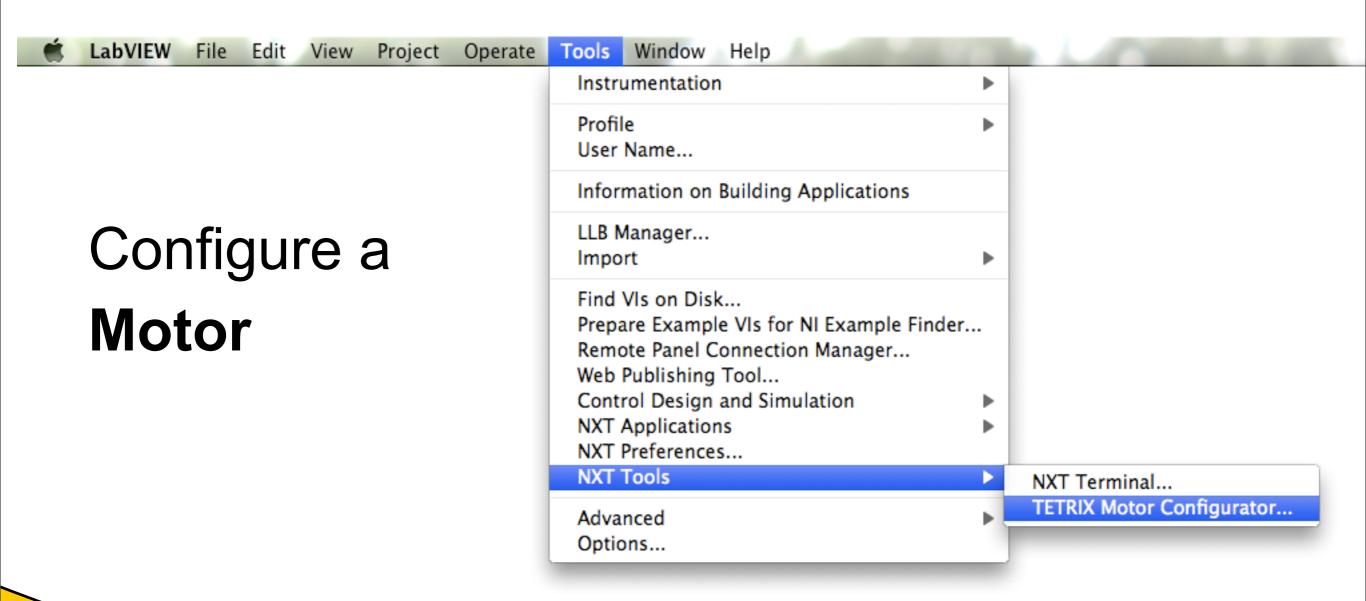
Context Help

Open
Context Help
and check out
TETRIX Motor



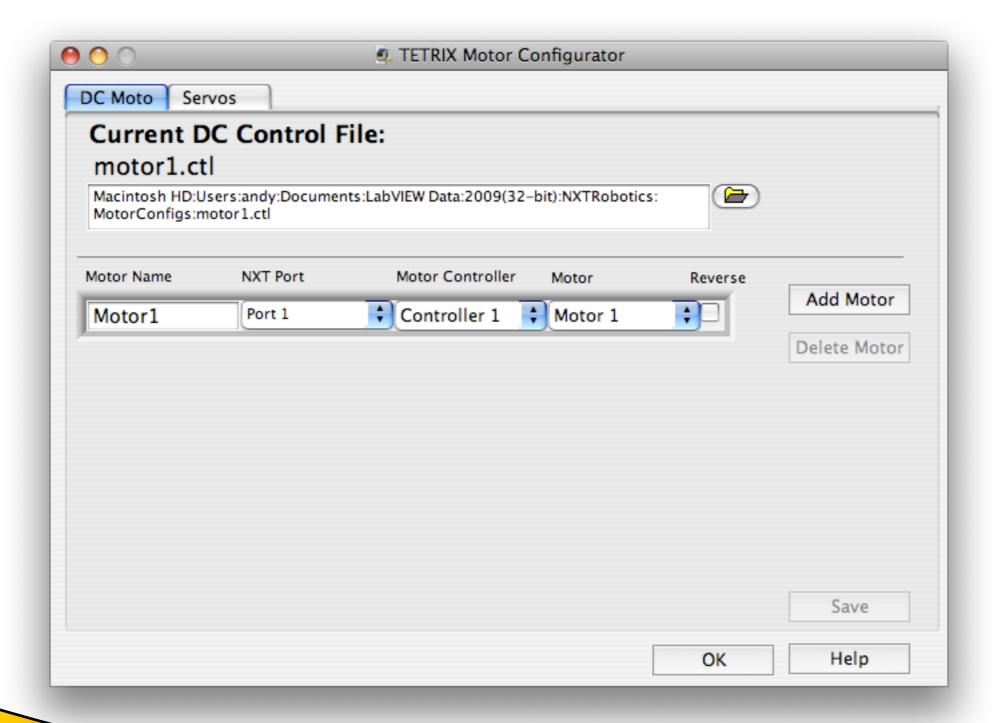


TETRIX Motor





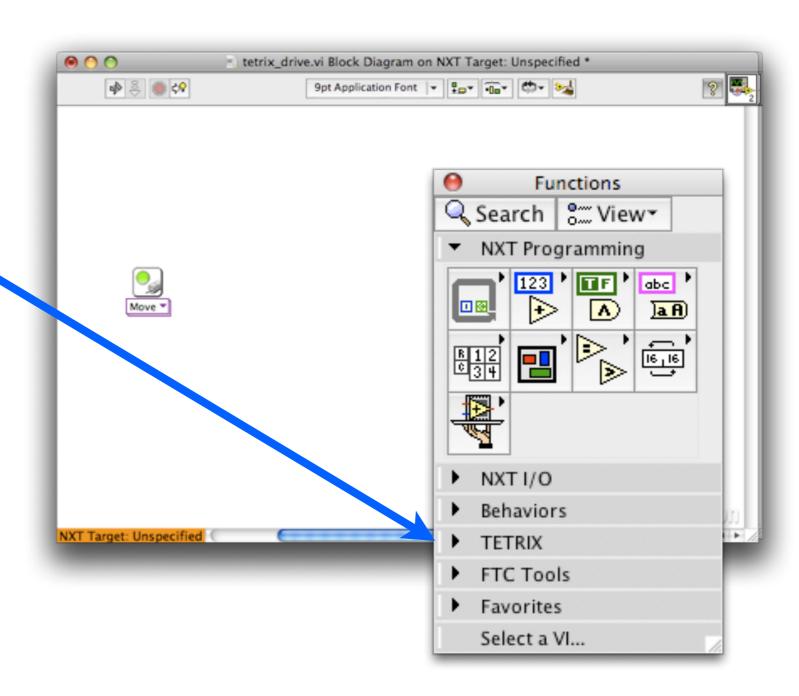
TETRIX Motor





TETRIX Palette

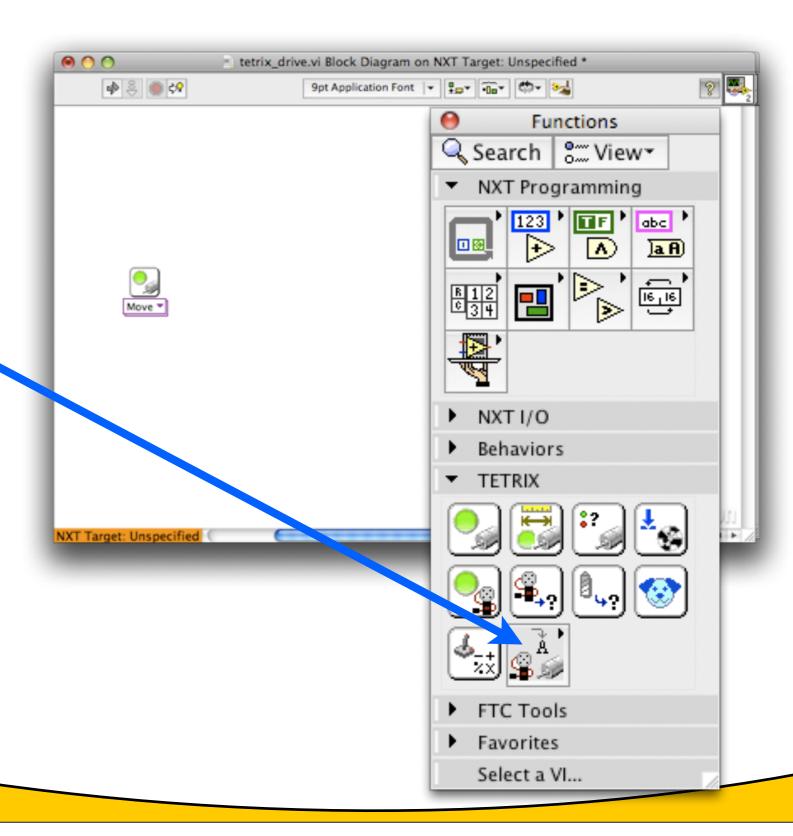
Select the TETRIX Palette





TETRIX Motor

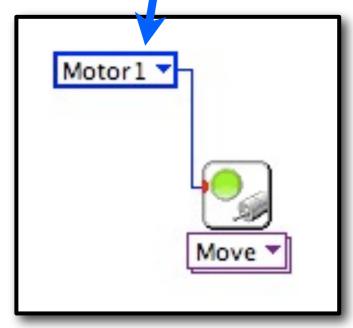
Click
Motor
Configuration

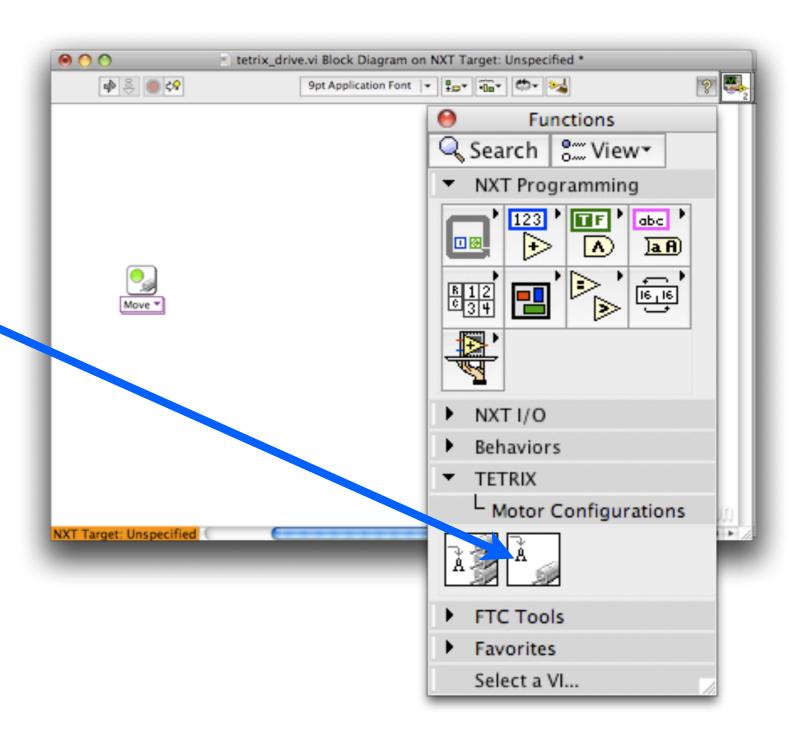




TETRIX Motor

Drag on a motor1.ctl

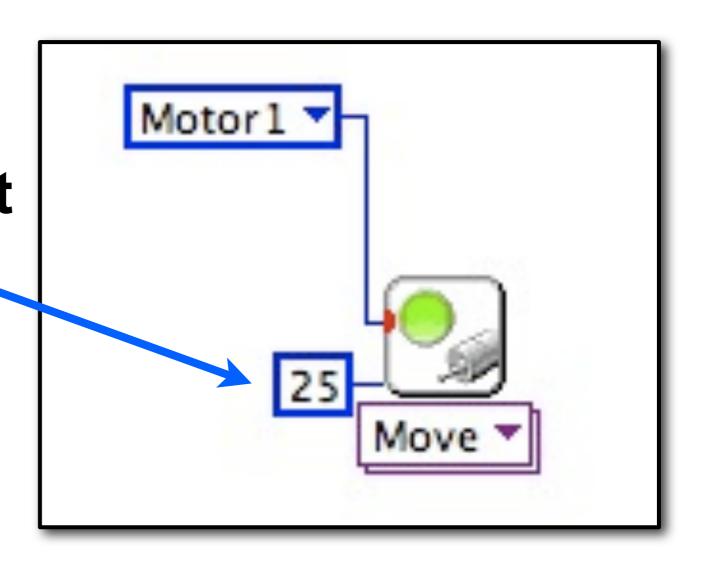






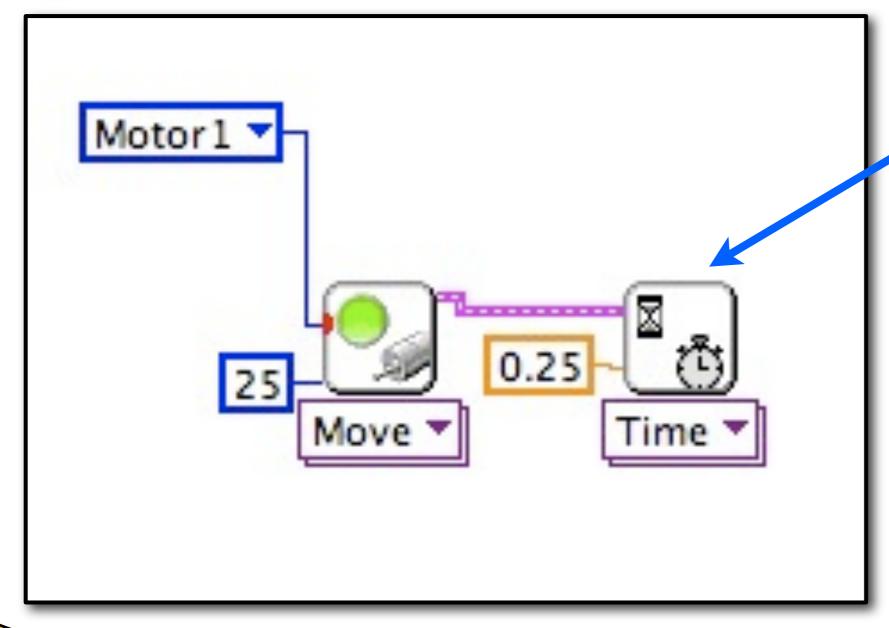
Set Motor Speed

Right Click ->
Create Constant
Highlight
Type "25"





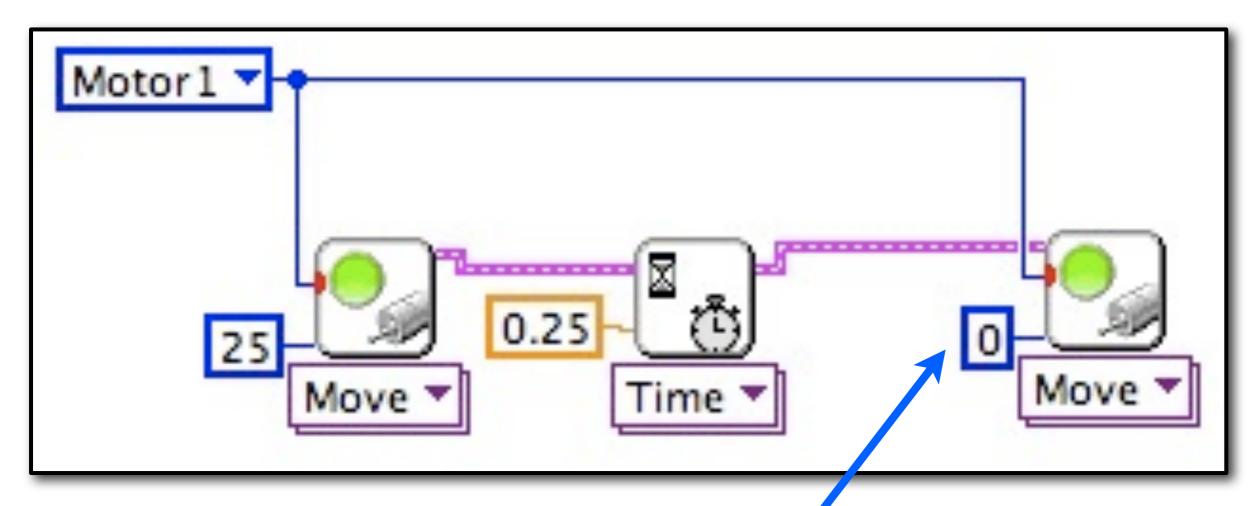
Add Timer



Add Timer Set .25 Sec



Add Another Motor Block



Set Speed to 0 Stopping the Motor

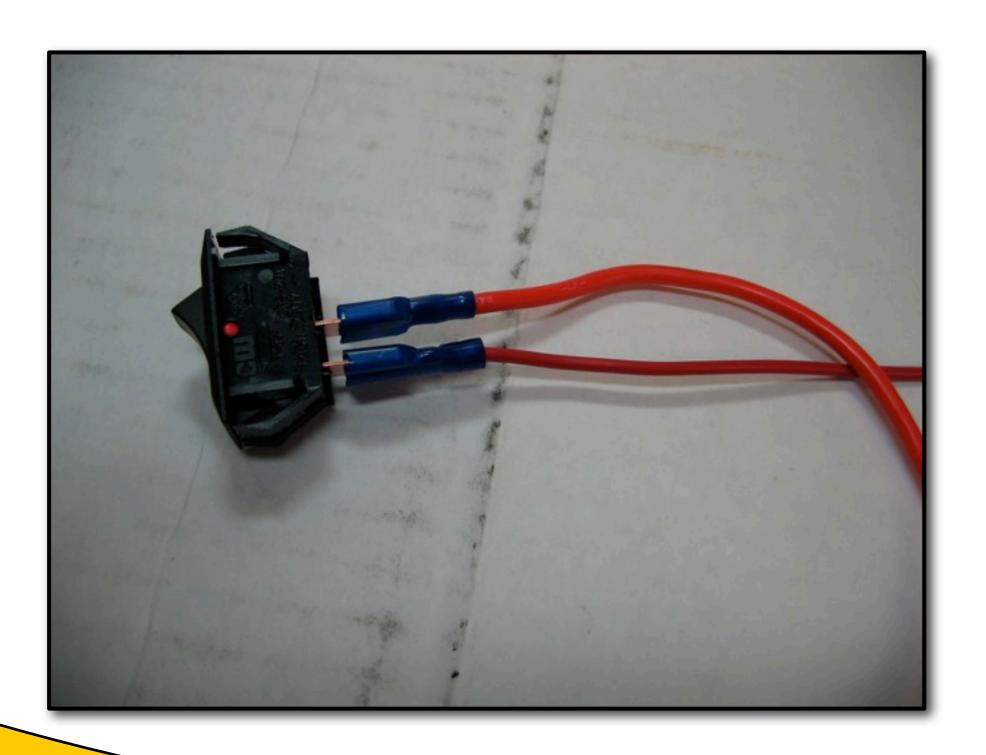


HOOKING EVERYTHING UP



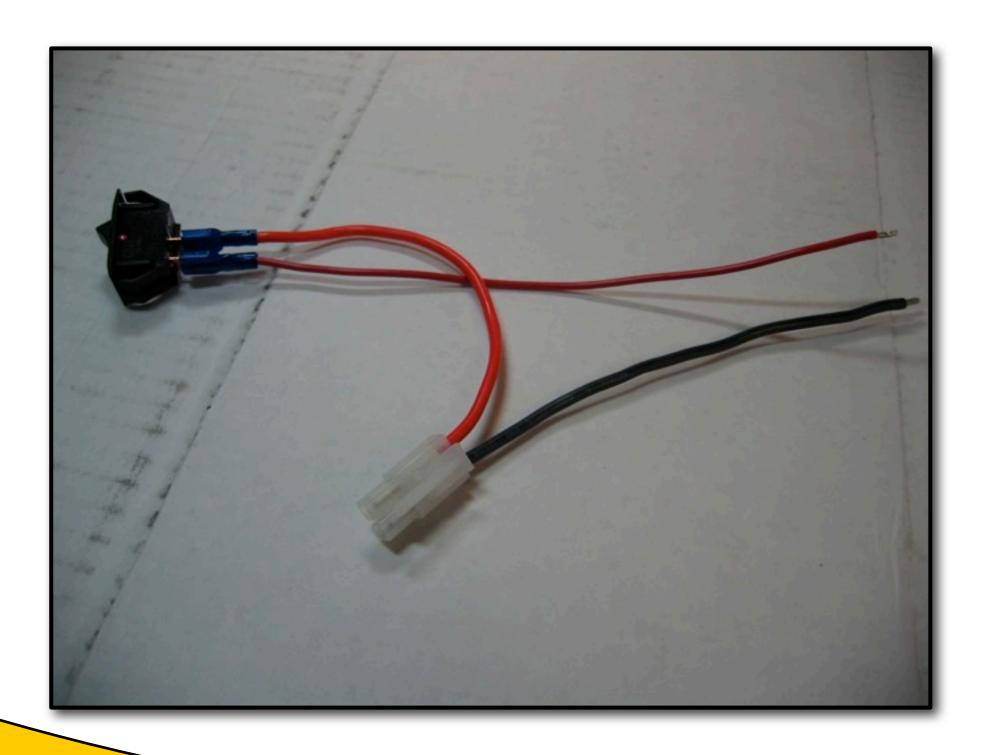


Connect the Switch

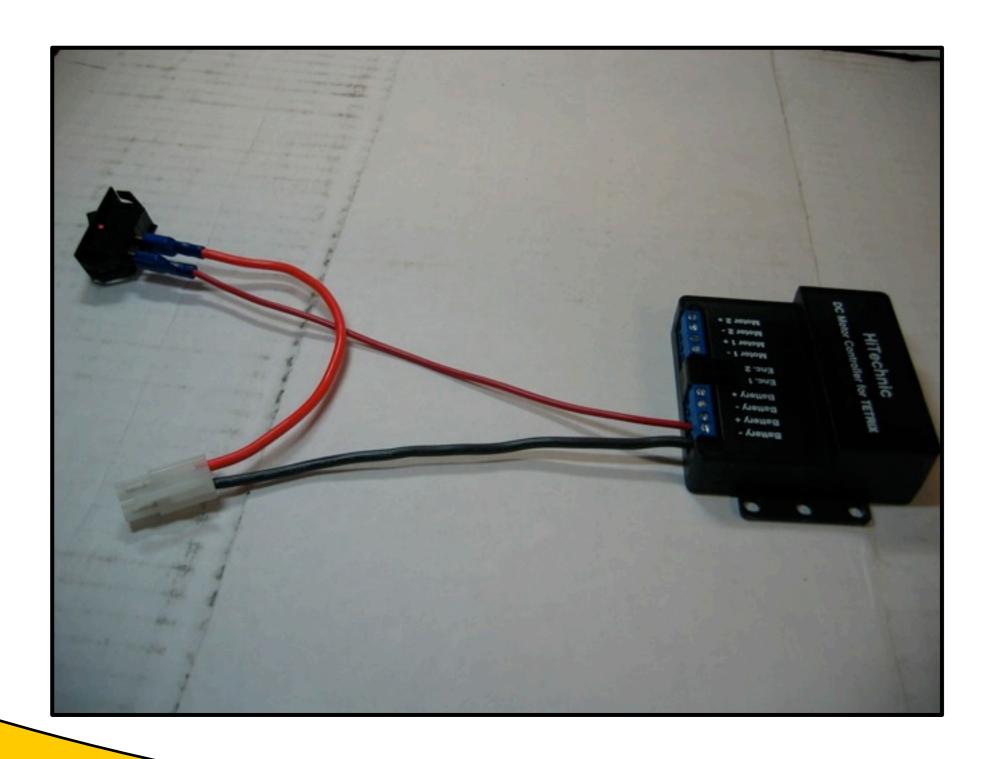




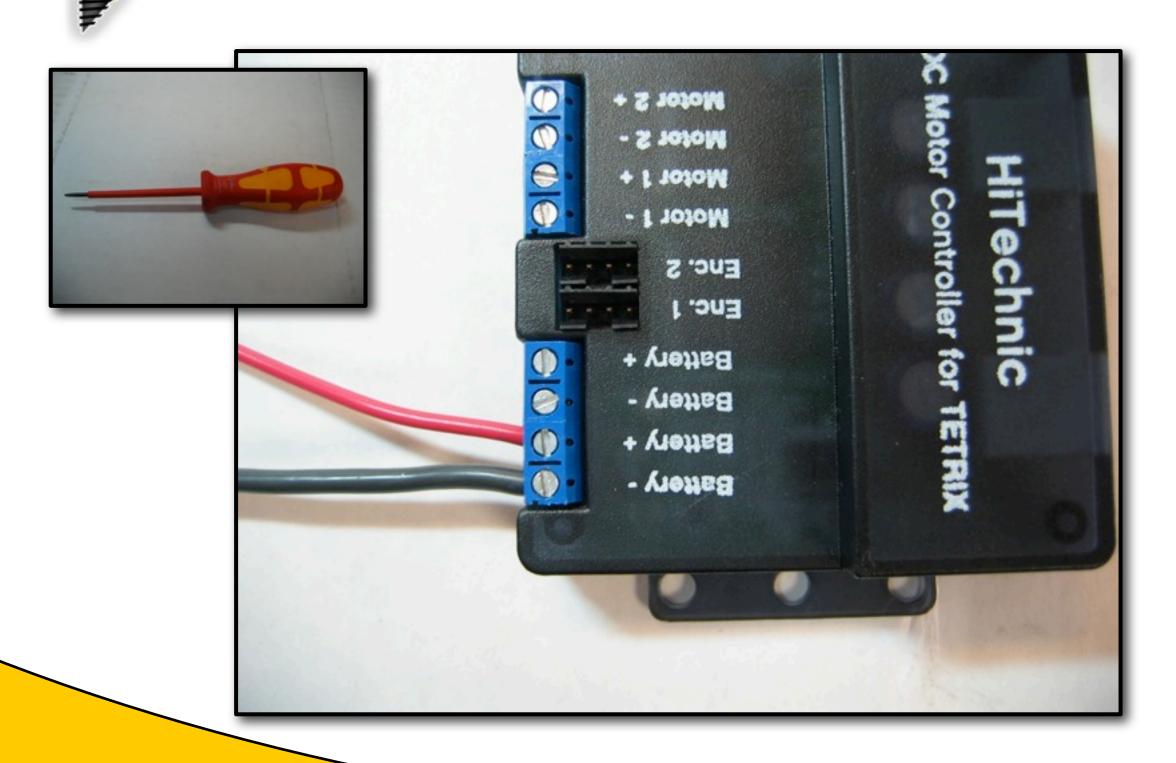
Connect the Switch



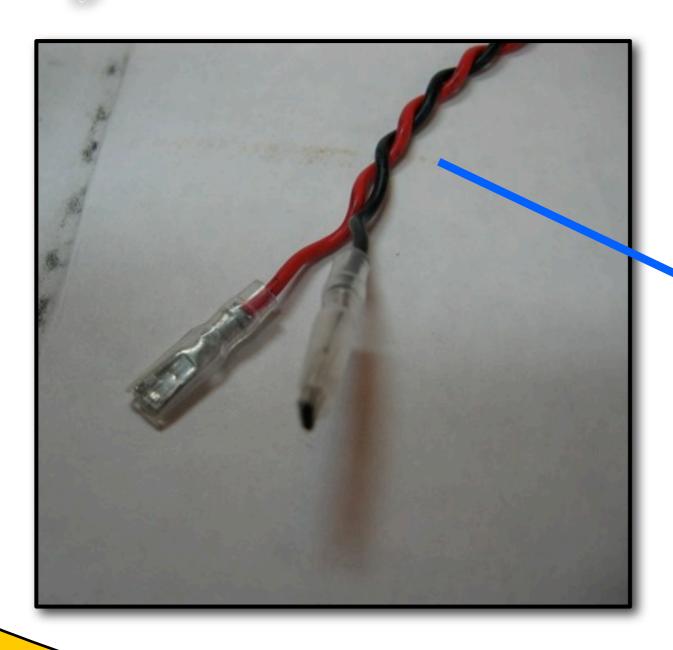
Connect Switch to Motor Driver

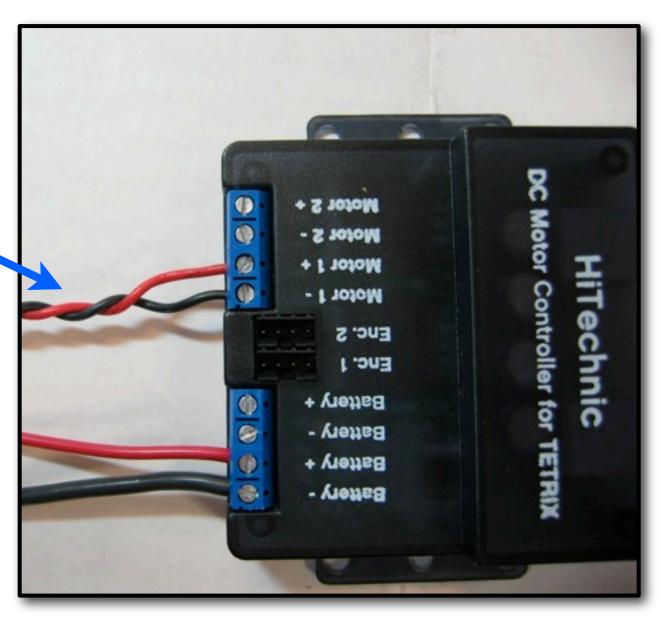


Connect Switch to Motor Driver



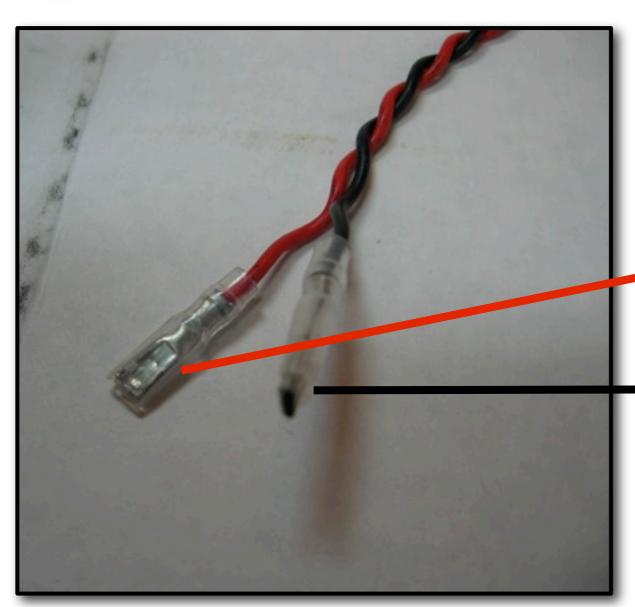
Connect Motor Wires To Driver

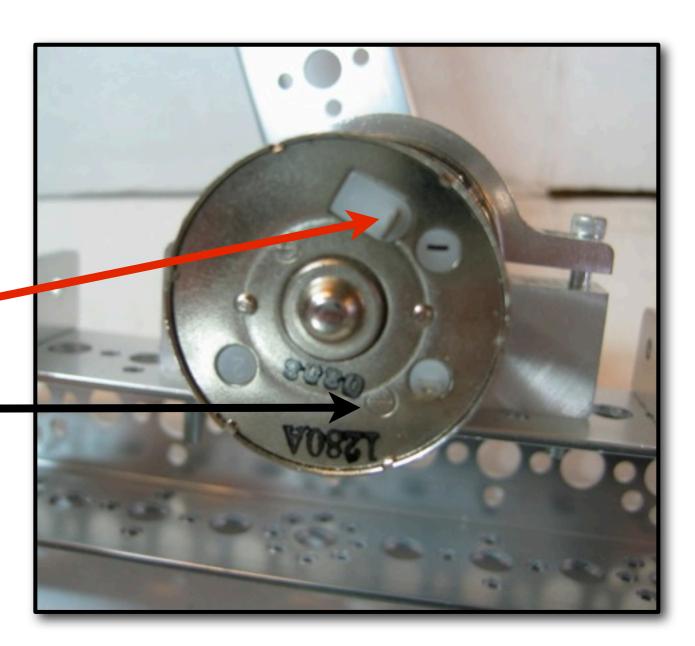






Connect Motor Wires to Motor

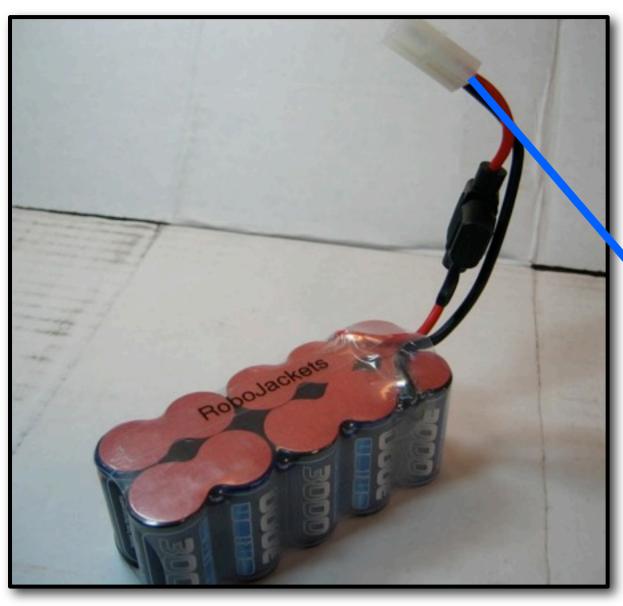


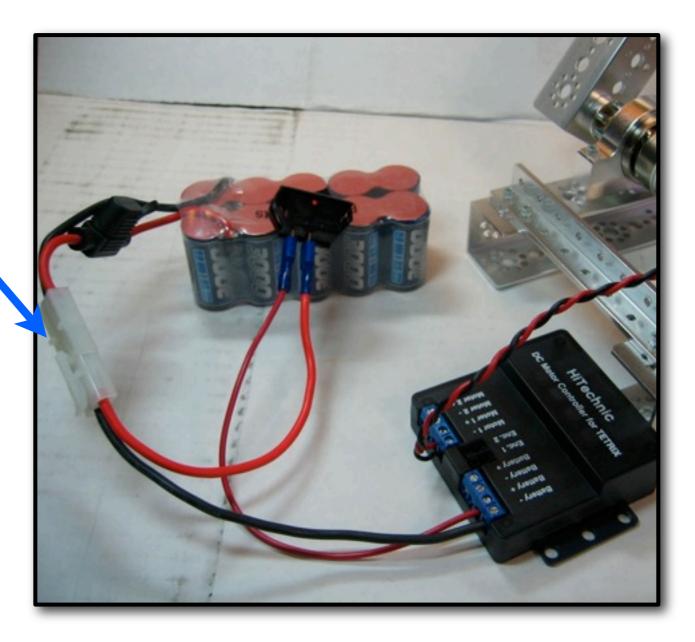


Polarity matters!



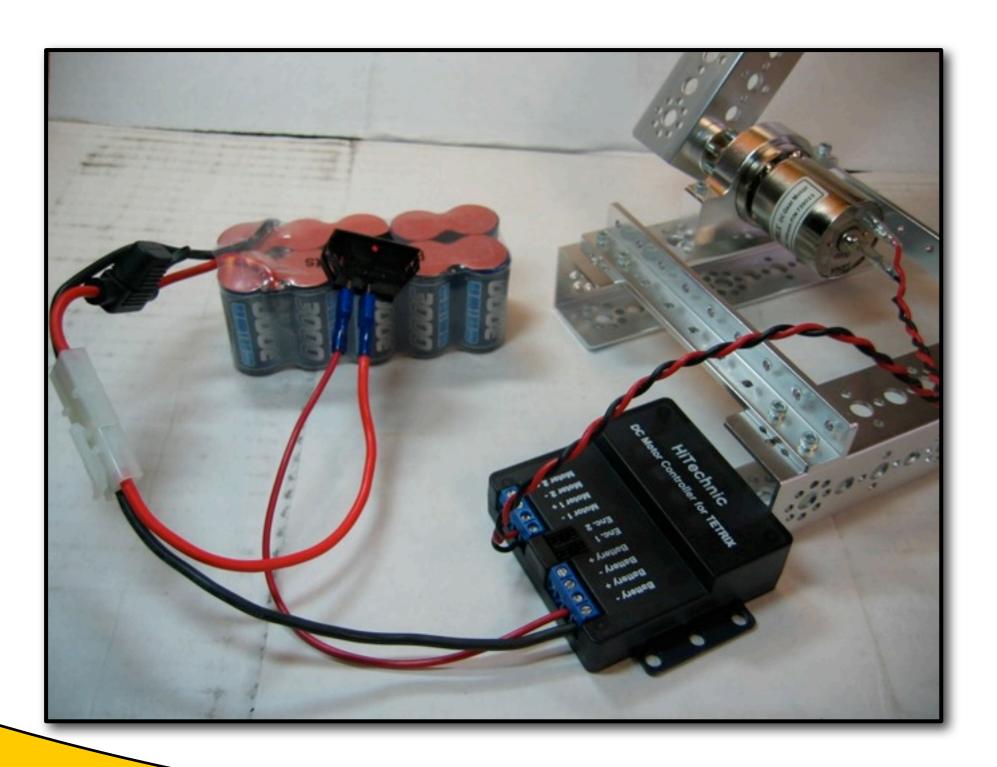
Connect Battery







Current Assembly





Connect NXT

Use Port 1
Any Port on Controller

