Scratch WeDo Setup

Intermediate Level

Go to <https://education.lego.com/en-us/downloads/wedo-2>

* Download wedo 2.0 app for Windows 10
* Install the App
* Open the app click the Book Icon
  + Watch the explore section of Milo Videos:
    - Milo the Science Rover
    - Milo Motions Sensor

Download Example (optional): https://github.com/jwbear/jwbear.github.io/blob/master/wedoexample.sb2

Go to scratchx.org/#scratch

* If Firefox doesn’t work, try IE
* Select “Add An Extension”
* Select Lego WeDo 2.0

Go to <https://scratch.mit.edu/wedo>

* Download Scratch Device Manager for Windows 10+
* Install Scratch Device Manager
* Go to Windows Icon and Run Scratch Device Manager
* Go through the steps to pair the Lego WeDo
  + Open Bluetooth settings and make sure LPF2 Smart Hub is Paired
  + Connect using Device Manager
  + Refresh ScratchX page and reload extension
  + Pairing can be tricky, contact a tech helper if you have trouble

Project Goals: In groups of 2, Help Milo Find a Plant Specimen on the table using your Scratch Sprite

2 Teams

Scratch Team:

One team creates a Sprite to interact with Milo

* This Sprite will report what Milo is doing
  + Distance (when an object is blocking)
  + Speed (how fast Milo is going)
  + Motion
  + Color of Milos light

Robot Team:

Will learn how to get Milo to do the following

* Move forward
* Move backward
* Change his light color
* Stop when he gets too close to a plant specimen

Together:

Teams will combine their code so the Sprite tells Milo what to do

* The Sprite should tell us when Milo has found the plant specimen