



# CoderDojo

Season 5  
Episode 3



# Welcome to Coder Dojo NOVA!

## Today's Agenda:

### 1:00-1:55 Split into Groups

- Novice Scratch (New to Scratch or need some extra guidance, all ages)
- Advanced Scratch (Able to work independently, all ages)
- Robotics (You know who you are)

### 1:55-2:05 Short Break

### 2:05-3:00 Write more code!

While you wait for us to get started

- Try to log in to the NOVA Guest Wifi
- Check in on this form: <http://goo.gl/forms/Um9sqY1UQs>

# White Belt Supplies are Ordered!

First opportunity to try for the White Belt will be Sunday March 6th (4th meeting). Next opportunity May 1st (8th meeting)

The Scratch testing app can be found at:  
<https://scratch.mit.edu/projects/98437165/>

Requirements can be found on our website!  
CoderDojoNova.co off the Classes tab under Lessons



# Logistics

Information your child will need to have at their fingertips:

- To access NOVA Guest WiFi
  - an email address
- To access the Scratch Website
  - an email address
  - a password you set up

Occasionally the Wifi just doesn't work. We then rely on the offline version of Scratch. Do you have it installed on your child's laptop? If not talk to a mentor!

Did everyone receive the emails to the CoderDojoNovaNinjas email list?

# Novice Scratchers Plan

First Hour:

Build a Band (From Unit 2)


Second Hour:

It's Alive (Unit 2)

## IT'S ALIVE!


HOW CAN YOU TAKE AN IMAGE OR A PHOTO AND MAKE IT COME ALIVE?

In this activity, you will explore ways of bringing sprites, images, and scenes to life as an animation by programming a series of costume changes.



**START HERE**

- Choose a sprite.
- Add a different costume.
- Add blocks to make the image come alive.
- Repeat!



**THINGS TO TRY**

- Try sketching your animation ideas on paper first – like a flipbook.
- Experiment with different blocks and costumes until you find something you enjoy.
- Need some inspiration? Find projects in the Animation section of the Explore page.

**FINISHED?**

- Add your project to the It's Alive studio: <https://scratch.mit.edu/studios/475529>
- Challenge yourself to do more! Add more features to your project to make your animations look even more realistic.
- Help a neighbor!
- Share your project with a partner and walk them through your design process.
- Find an animated project you're inspired by and remix it!

## BUILD-A-BAND

HOW CAN YOU UTILIZE SCRATCH TO CREATE SOUNDING INSTRUMENT BANDS, OR STYLES OF MUSIC THAT REPRESENT THE MUSIC YOU LOVE MOST?

In this activity, you will build your own music-inspired Scratch project by pairing instruments.



**START HERE**

- Create a sprite.
- Add sound blocks.
- Experiment with ways to make your instruments interactive.



**THINGS TO TRY**

- Blocks to make a sound play more than once.
- Set your own sounds or experiment with the Sounds
- Use the tempo blocks to speed up or slow down the

**FINISHED?**

- + Add your project to the Build-A-Band Studio: <http://scratch.mit.edu/studios/475529>
- + Challenge yourself to do more! Invent a new instrument or record your own sounds.
- + Help a neighbor!



# Advanced Scratchers Plan

Make a Game based on a resource from CoderDojo Winslow



[http://kata.coderdojo.com/wiki/Wilmslow\\_CoderDojo](http://kata.coderdojo.com/wiki/Wilmslow_CoderDojo)