



CoderDojo

Spring 2018
Overview



Welcome to Coder Dojo NOVA!

Today's Agenda:

1:00-1:20 Overview for this Season

1:20-2:00 Split into Groups

- Novice Scratch (New to the Dojo or need some extra guidance, all ages)
- Everybody else! (Help Novice coders get started with Scratch then mBots!)

2:00-2:05 Short Break

2:05-3:00 Back at it!

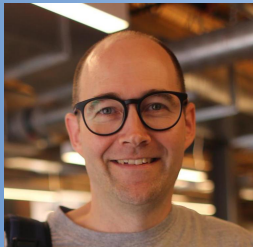
While you wait for us to get started

- Try to log in to the NOVA Guest Wifi
- If your child does not have a Scratch login go to:
 - [Scratch.mit.edu](https://scratch.mit.edu)
 - Create login (will need an email address)
 - Create an empty project and share it (will require permission from email address of record)
- Are you registered? On the mailing list? Do both on CoderDojoNova.co

What is Coder Dojo?



- Founded in 2011 by James Whelton (then 18) and Bill Liao in Ireland (read all about it at CoderDojo.com)
- Thomas Debass (our founder) learned about it while in Ireland and wondered why isn't there something like this for my daughters?
- So he started a Dojo! Do you know about our website? CoderDojoNova.co
- Who am I -> Steve Trickey, Lead Mentor
- Are you on the mailing list?
- What makes Coder Dojo special? **
 - Learning model
 - Peer learning
 - Youth mentoring
 - Self-lead discovery



Parent responsibilities

- Bring your coder!!!
- Make sure your coder is setup and ready to go.
 - Did you feed your creature?
 - Did you bring a pen/pencil and paper?
 - Does your coder's laptop work? (charged, updated)
 - Is your coder logged into the wifi?
 - Password info saved and available?
- Stay on site!!!
- Do you want to help?

What did we do last season?

For those new to the Dojo get your feet wet with the Scratch Programming language



When you are ready to move to more advanced topics you can keep going in Scratch or investigate other tech*.

Novice

- New to Scratch
- Need more guidance
- Any age

Everybody Else

- Any age
- Work on Cool Code Awards project (group or individual)
- Pursue your next Belt

What is the plan for this season?

For those new to the Dojo get your feet wet with the Scratch Programming language



- Unit 1: Robots! (mBot)
- Unit 2: Python
- Unit 3: Web Programming

Novice

- New to Scratch
- Need more guidance
- Any age

Everybody Else

- Have some programming experience
- Can work somewhat independently
- Any age

Encourage Progress with a Belt System

- We want to encourage you to keep learning
- We want to recognize the achievements you accomplish
- Investigating the Open Badge System

We will follow the general guidance of the Coder Dojo organization adding our own local color.



Logistics

Information your child will need to have at their fingertips:

- To access NOVA Guest WiFi
 - an email address
- To access the Scratch Website
 - a username and password you set up
 - an email address (to give permission to share content)

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 Coders:

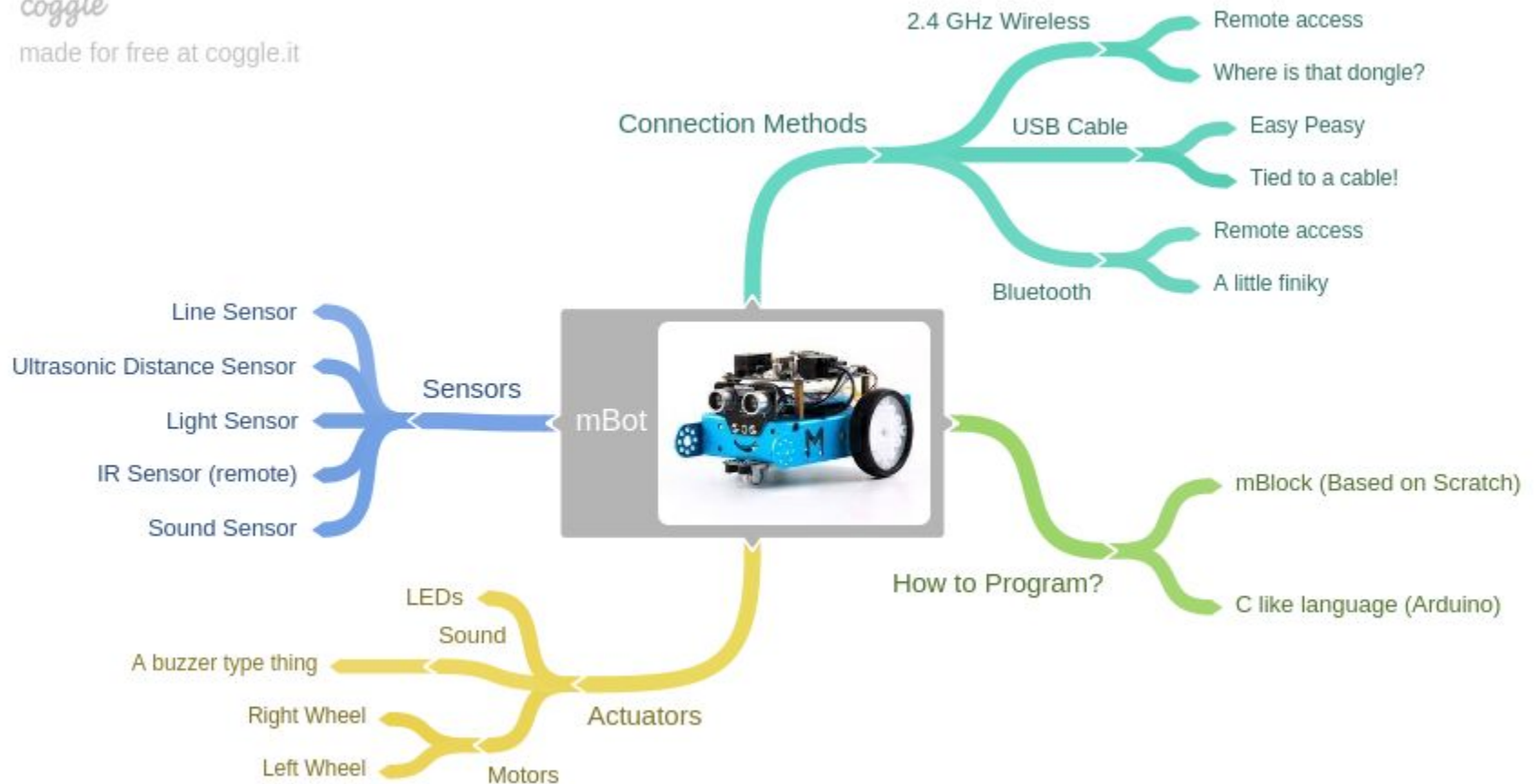
- Create Scratch Login - scratch.mit.edu
 - Click “Join Scratch”
 - Set Username and Password
 - Set age and demographic data
 - Set parent email
 - Confirm that child can share via email link
- Open your first project
- Share this project
- Work through the “Getting Started with Scratch” Tutorial
- Try the next tutorial “Animate Your Name”
- Play with Scratch!

What is an mBot?

- Arduino based robot made by makeblock
- <http://www.makeblock.com/>

coggle

made for free at coggle.it



Everybody Else

First help the new guys to get started! This is called mentoring.

This season we will work on

- Robots using mBots (3 meetings)
- Python programming (3 meetings)
- Web programming (3 meetings)

- What if you don't want to do any of this?
- Figure out what you do want to do!