

BUSINESS ANALYTICS CLUB

Workshop Series 10.3

Programming Basics
In Scratch

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Scratch

- Officially started in 2005
- Scratch is a **visual programming language**
- Great transition into advanced languages
- Scratch is an **event driven** language using **Sprites**



Exploring Scratch

Create stories, games, and animations
Share with others around the world



A creative learning community with **10,808,840** projects shared

[ABOUT SCRATCH](#) | [FOR EDUCATORS](#) | [FOR PARENTS](#)

Featured Projects



Pixel Snake
by PixelZebra



Carve a Pumpkin!
by jbbtrnhlover



Warriors Silent Film: "G...
by Lionclaws



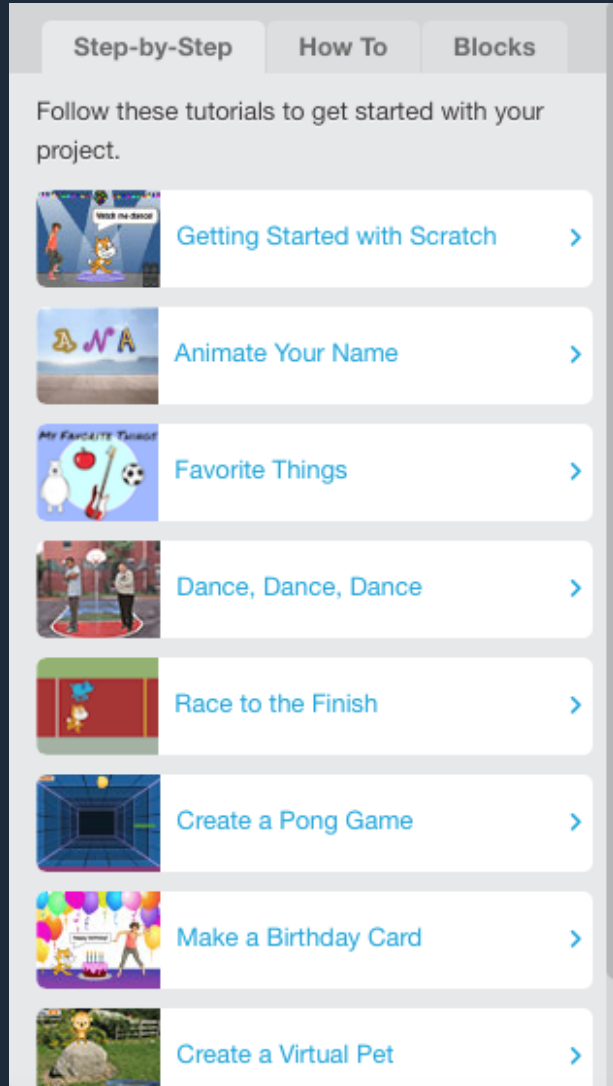
This is the Best Burrito ...
by superluigi16



Black & White Realistic...
by goldy_eyes

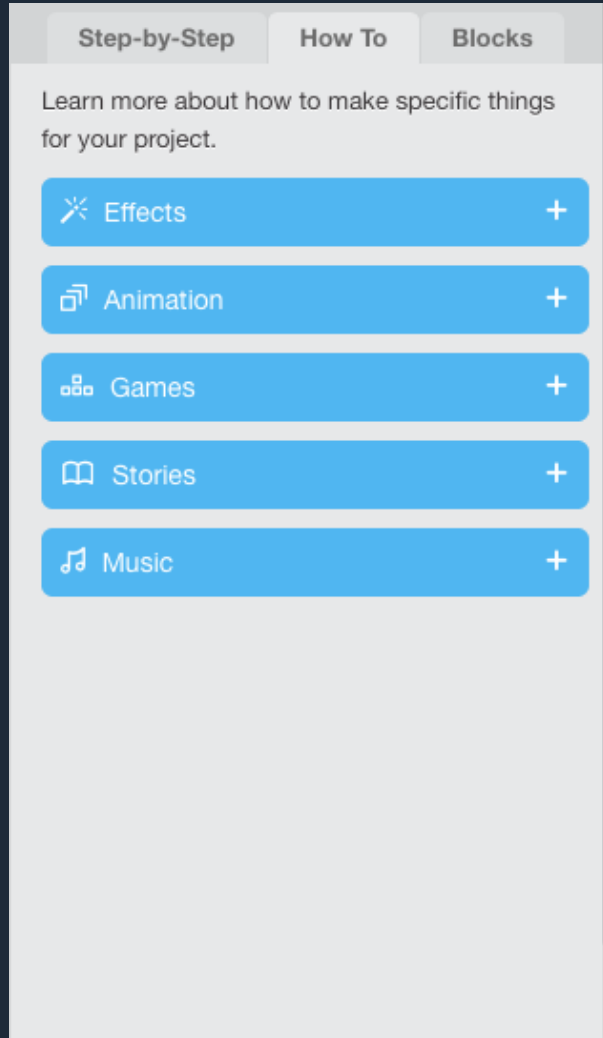


Your Helper



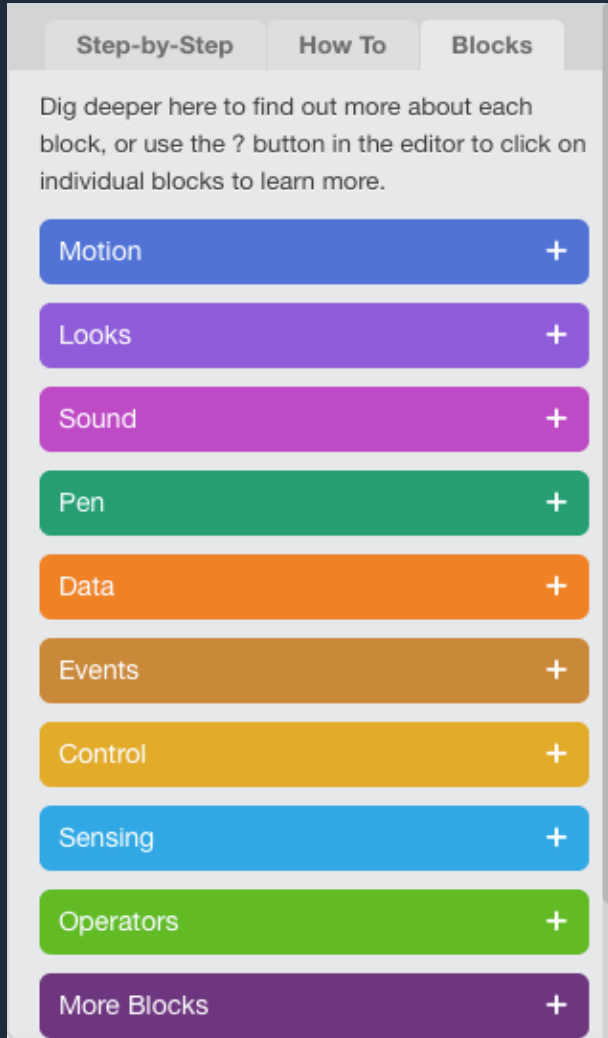
- One section of the Helper provides you with **step-by-step tutorials** of how to code within your project

Your Helper



- Another section teaches you **how to** make specific projects including: **special effects, animations, games, and etc**

Your Helper

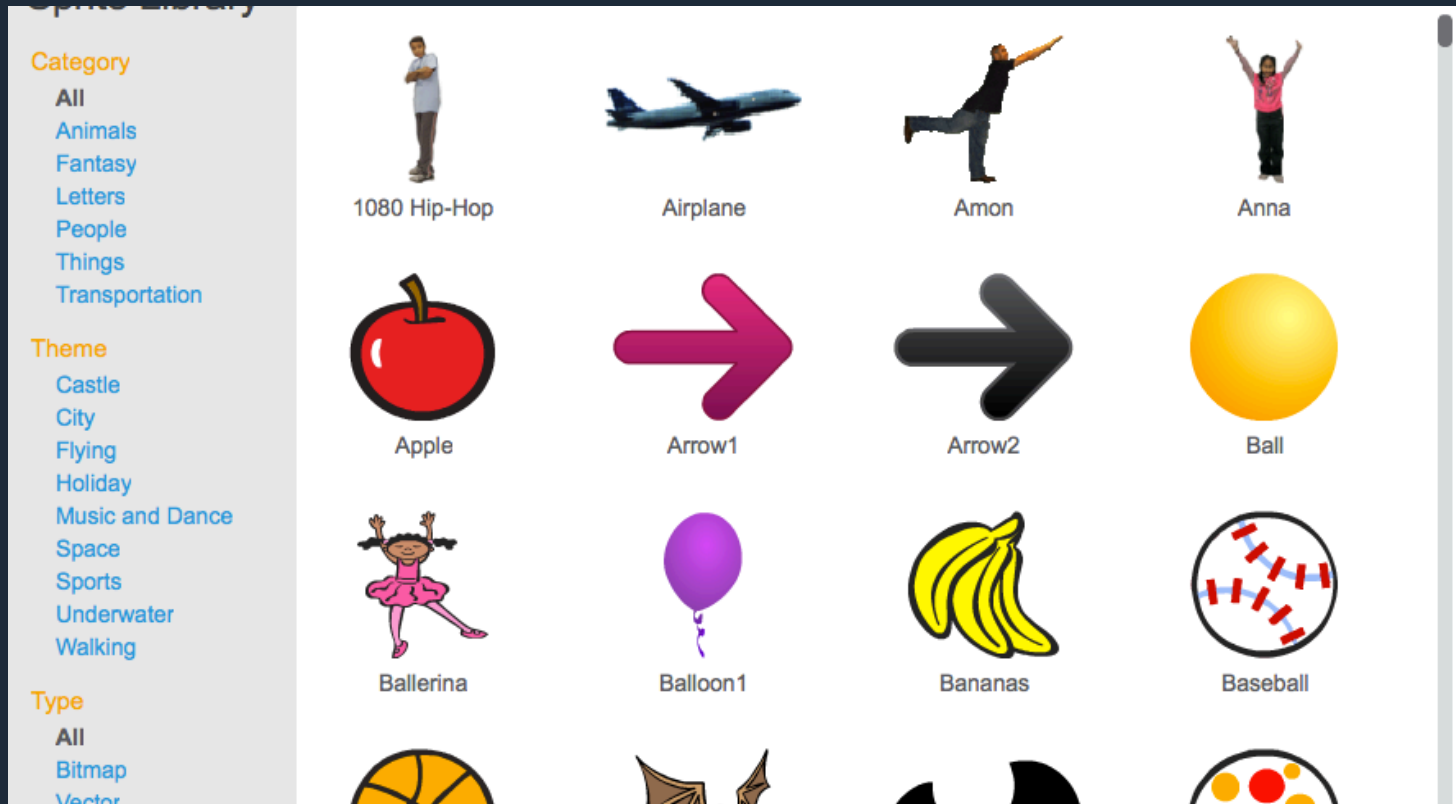


- Your **Helper** can also give you in depth descriptions on how to use each of the **script blocks** to perfect your project!



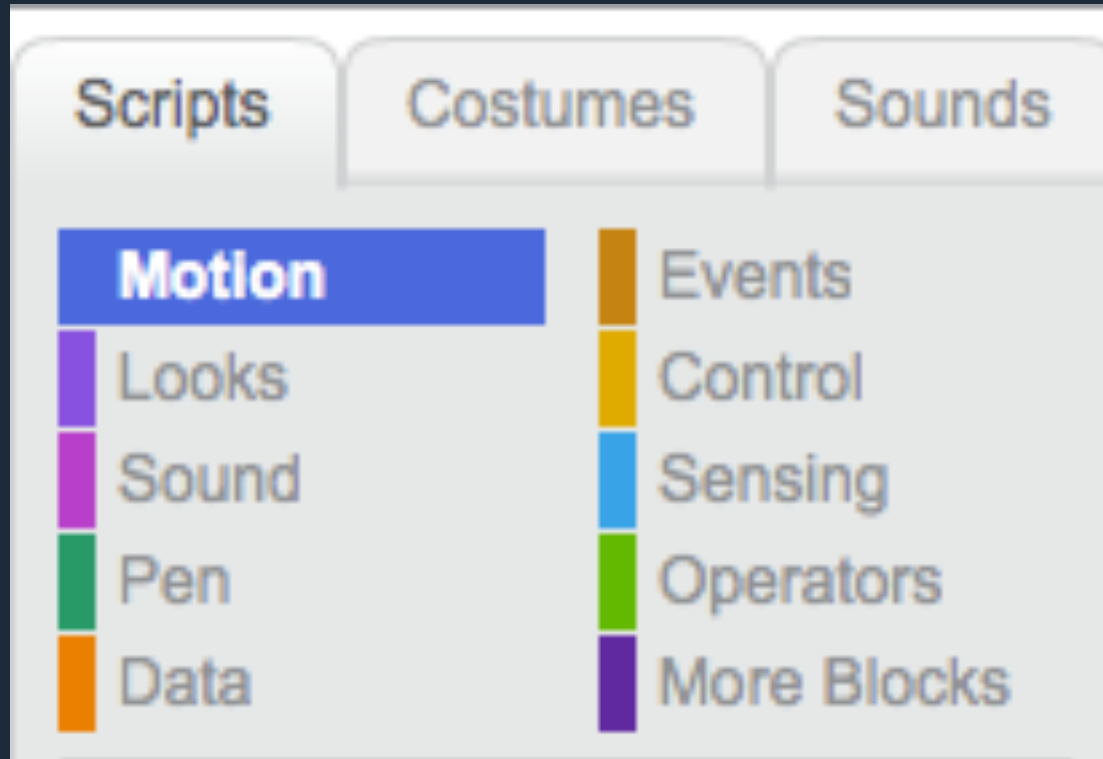
Sprites

- **Sprites** are your **characters**. These are objects (**X's**) that you will control within your project.



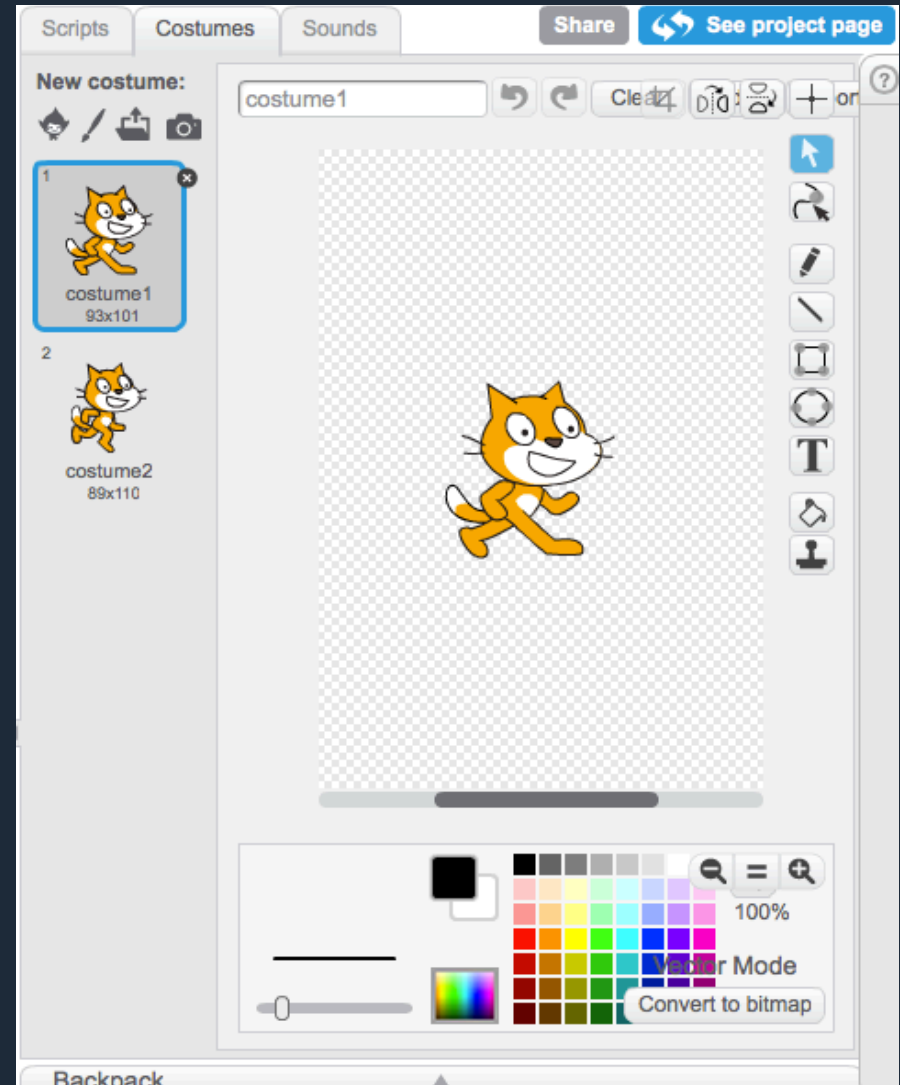
Controls

- These are your **controls**. They will be used throughout your project



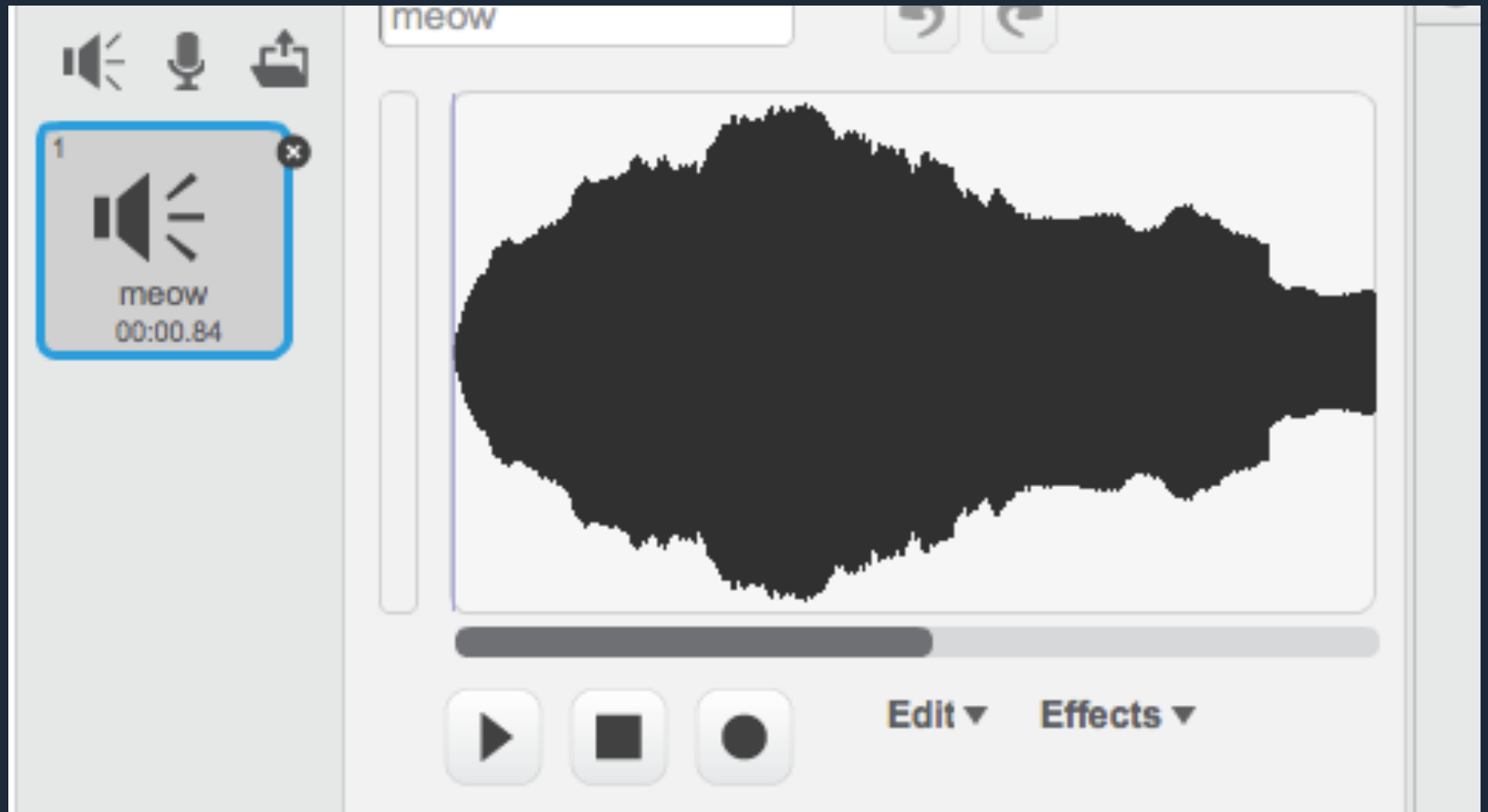
Controls: Costumes

- This is where you can **change the look** of your sprite. You can pick from **pre-set sprites** and adjust them or even make your own!



Controls: Sound

- **Sound** allows you to upload or create sounds to add to your project



Control: Scripts

- Lastly, there are **Scripts**. These scripts are where you **choose the blocks** in order to create your project. Each block allows you to perform a specific action to animate your **sprites** and **sounds**!



10+ Million Projects Shared



Starter Projects

Try out these starter projects from the Scratch Team. Look inside to make changes and add your ideas.

[Animation](#)[Games](#)[Interactive Art](#)[Music and Dance](#)[Stories](#)[Video Sensing](#)

Example Project

scratch.mit.edu/projects/76185486

A great example of randomization!

Rock, paper, scissors! - All Stars

remixed by [Luismi_C3a](#)

v440

7 scripts
5 sprites

Instructions

This is a rock, paper, scissors game. The boy's choices are random.

Notes and Credits (added by Luismi_C3a)

I changed DJM473's game.

Edit: The original version by DJM473 didn't include more than one round. It was changed after this remix was made.

Original project:
[Rock, paper, scissors!](#) by [DJM473](#)

games

© Shared: 11 Sep 2015

Modified: 13 Sep 2015

887

1174

Studios

Embed

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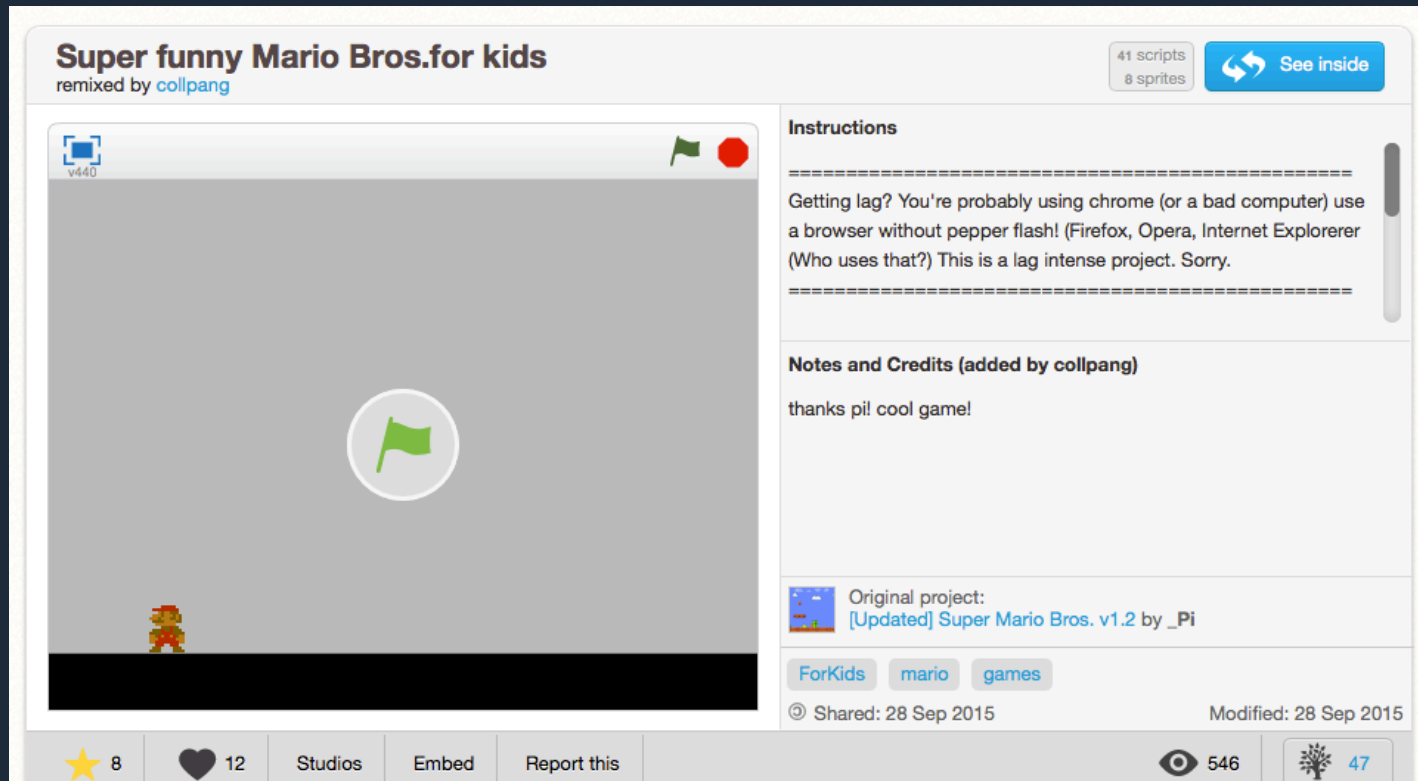
39632

164

Example Project

scratch.mit.edu/projects/76185486

Here we can see an example of side scrollers and an entire world that was imported by the project owner!

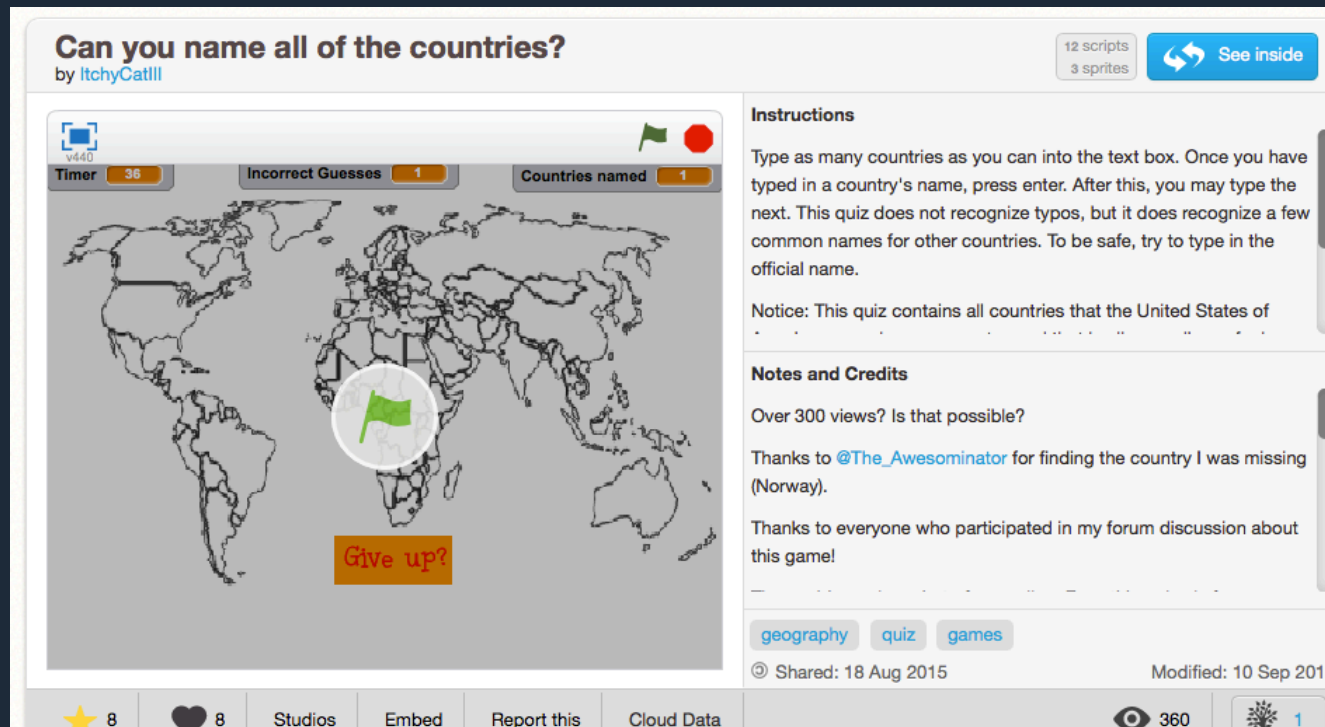


x

Example Project

scratch.mit.edu/projects/73416386/#player

Ever play Sporcle? You can do that here! This example is a time based project where you must type in your guess!



Let's try it ourselves!