## **Getting Started with Scratch**

ScratchEd Webinar Series
Wednesday, September 28, 2011
7pm – 8pm EST
Karen Brennan and Mitch Resnick

# What are different strategies for helping people get started with Scratch?

# Design-Based Learning



## High Ceiling

 $\blacksquare$ 

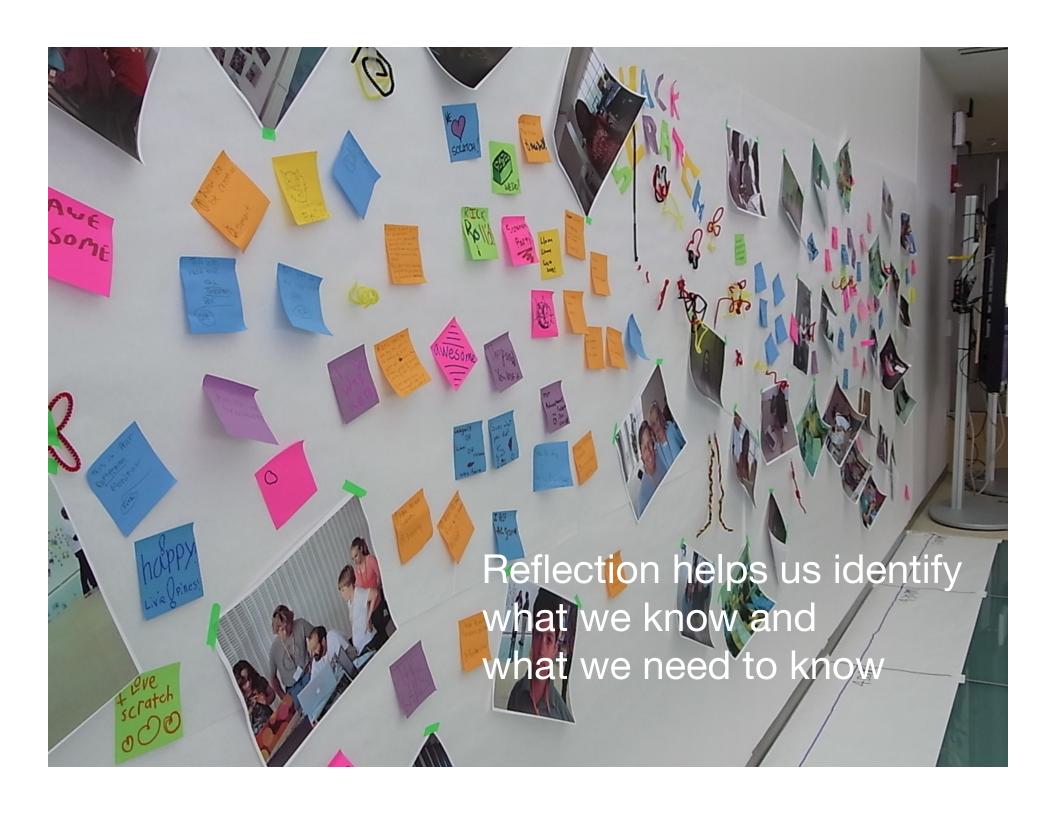
Low Floor

### High Ceiling

Wide Walls

Low Floor





### **Tonight:**

The set of activities that are described in the Scratch curriculum guide

Session #	Activities
1	Planning: What is creative computing?
	Planning: Defining computational design processes
	Exploring: Something surprising
	Reflecting: Our discoveries
2	Reflecting: Design notebook question
	Creating: About me
	Reflecting: My design process

## Planning: What is creative computing?

**Motivation** 

## Planning: What is creative computing? Motivation

Why are we doing this? creative expression, or technological awareness, or

computer science expertise, or...

## Planning: What is creative computing? Motivation

Why are we doing this?

creative expression, or technological awareness, or computer science expertise, or...

What questions are relevant to this context?

What are the different ways you interact with computers? How many of those ways involve you *creating* with computers?

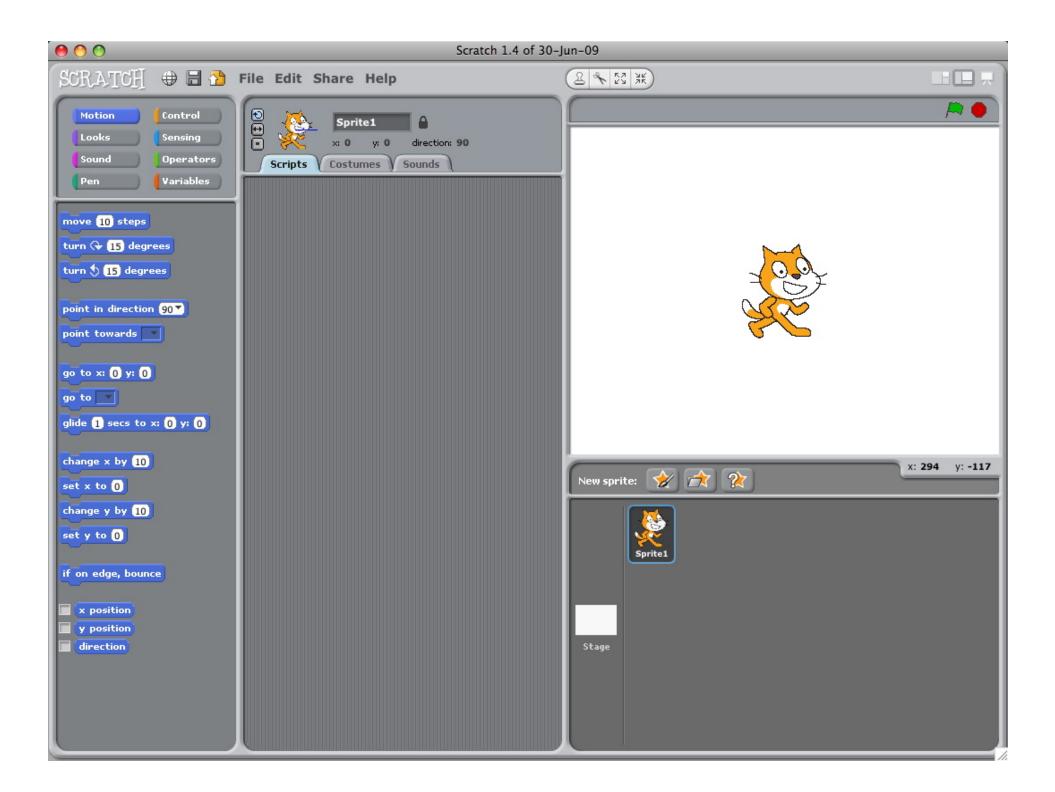
## Planning: What is creative computing?

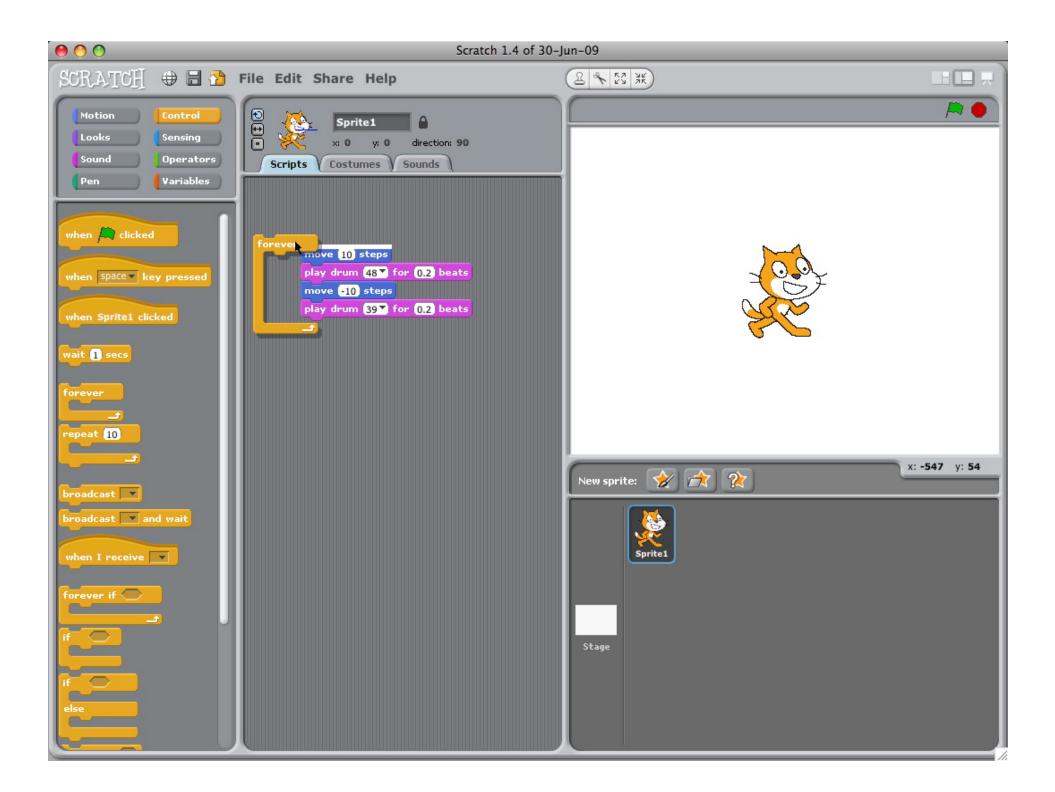
**Orientation** 

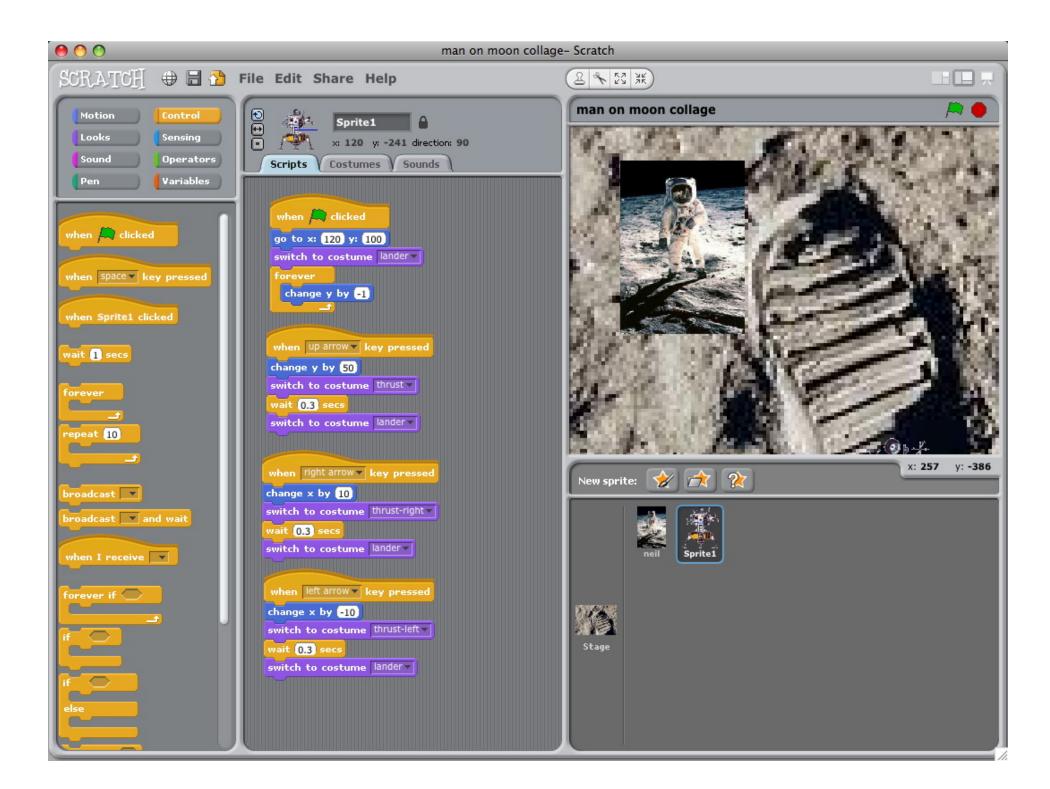
## Planning: What is creative computing? Orientation

What is the tool that we'll be using? How does it work?

Demo







SHOW A LITTLE SHOW A LOT

### SHOW A LITTLE

freedom vs. fear

## SHOW A LOT

### SHOW A LITTLE

freedom vs. fear

## SHOW A LOT

support vs. stifle

## Planning: What is creative computing? Orientation

What is the tool that we'll be using? How does it work?

Demo

## Planning: What is creative computing?

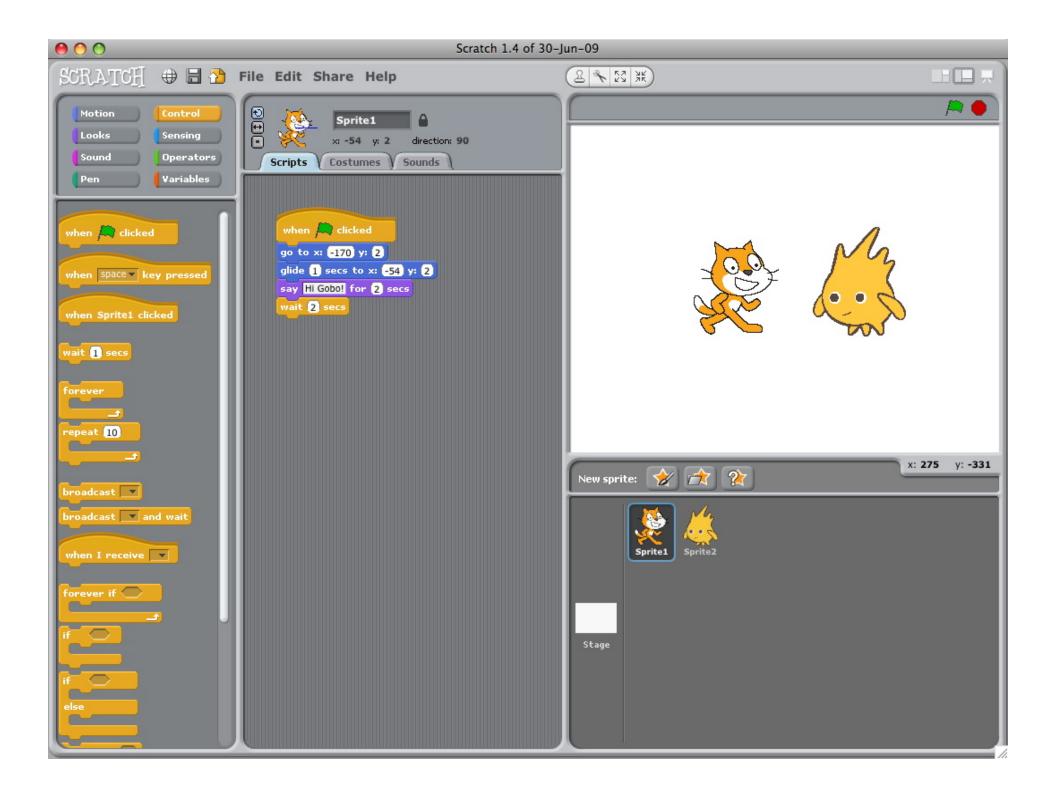
#### **Orientation**

What is the tool that we'll be using? How does it work?

Demo

What can I create with it?

Examples











imagine • program • share

#### Newest Projects in Sample Scratch Projects

Sort by: creator | title | creation date | addition date |

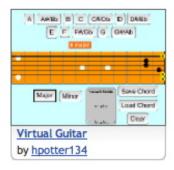
#### Subscribe













Car Race

by technoguyx



Gallery owner: ScratchEdTeam

Created: 1 week, 3 days ago

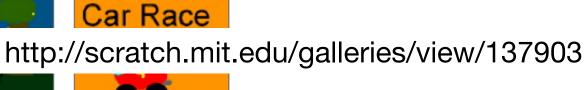
#### Gallery description

A curated set of interesting sample projects to showcase the range and diversity of creations that can be made with Scratch.



by iohndo77





EASY TO READ

REALLY DAZZLES

### EASY TO READ

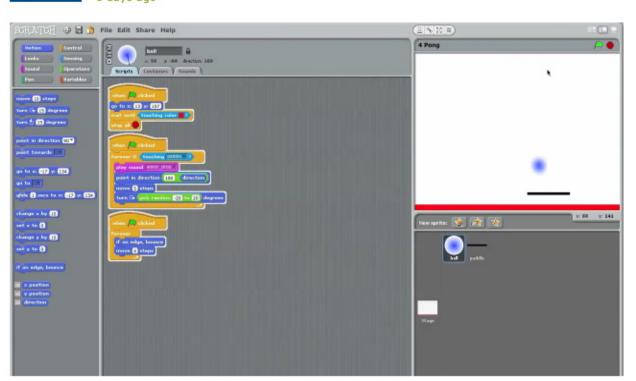
## REALLY DAZZLES

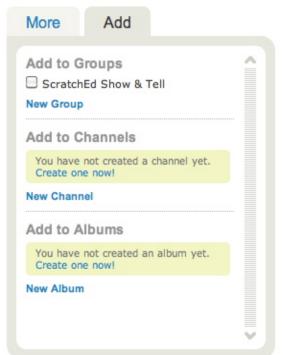
inspire vs. intimidate or constrain



#### Intro to Scratch

by ScratchEd 6 days ago





Couch Mode

Scratch is a programming language for young people to create their own interactive stories, games, music, and art.

Scratch was created by the Lifelong Kindergarten Group at the

http://vimeo.com/29457909

scratch.mit.edu

### Planning: Defining design processes

**Design notebook** 



#### **Design-Based Learning**



designing creating things, not just using or interacting with things

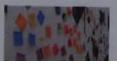
personalizing creating things that are personally meaningful and relevant





collaborating working with others on creations

reflectina reviewing and



5 Ways to use Scratch in the arts

i) movie making - special effects

2) visible representations of music

3) moving or animated comics 4) momusic plays, then student

plays manually

5) create some kind of interior design

go to 0.0

Move 10 Steps

(Look)

Move 10 Steps examinated, when the con-Look Say Its great to Control (wart 4 see) Say Troubing Second Sprite wait? broacast (walking can Go to (when I recieve)
Repeat
About 3 Stop
Play Sound

### Planning: Defining design processes

**Design notebook Resources** 

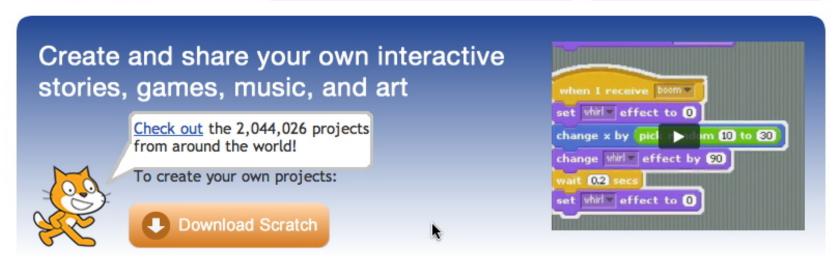


## Planning: Defining design processes

Design notebook Resources Scratch website









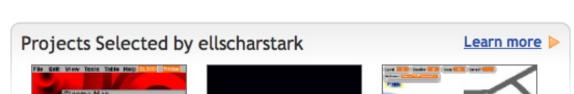


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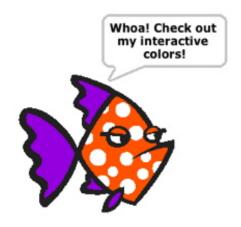
Scratch Design Studio





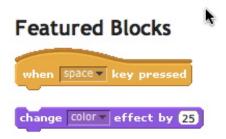
#### **Video Tutorials**

Want to start creating Scratch projects? Check out this collection of video tutorials.



#### Rainbow Fish

Learn to change the color of your sprite

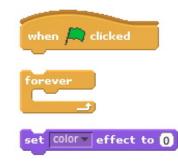




#### Whirling Butterfly

Learn to change your sprite's graphic effects by moving your mouse







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imagine • program • share Login or Signup for an account

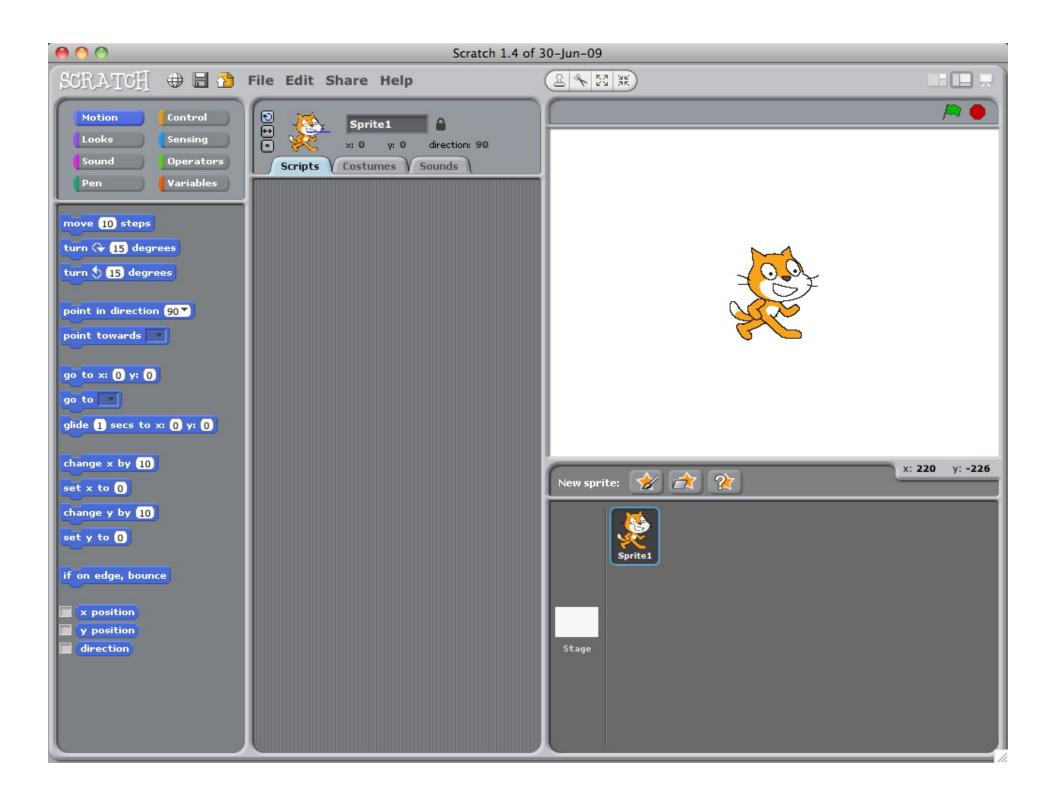
#### **Scratch Forums**

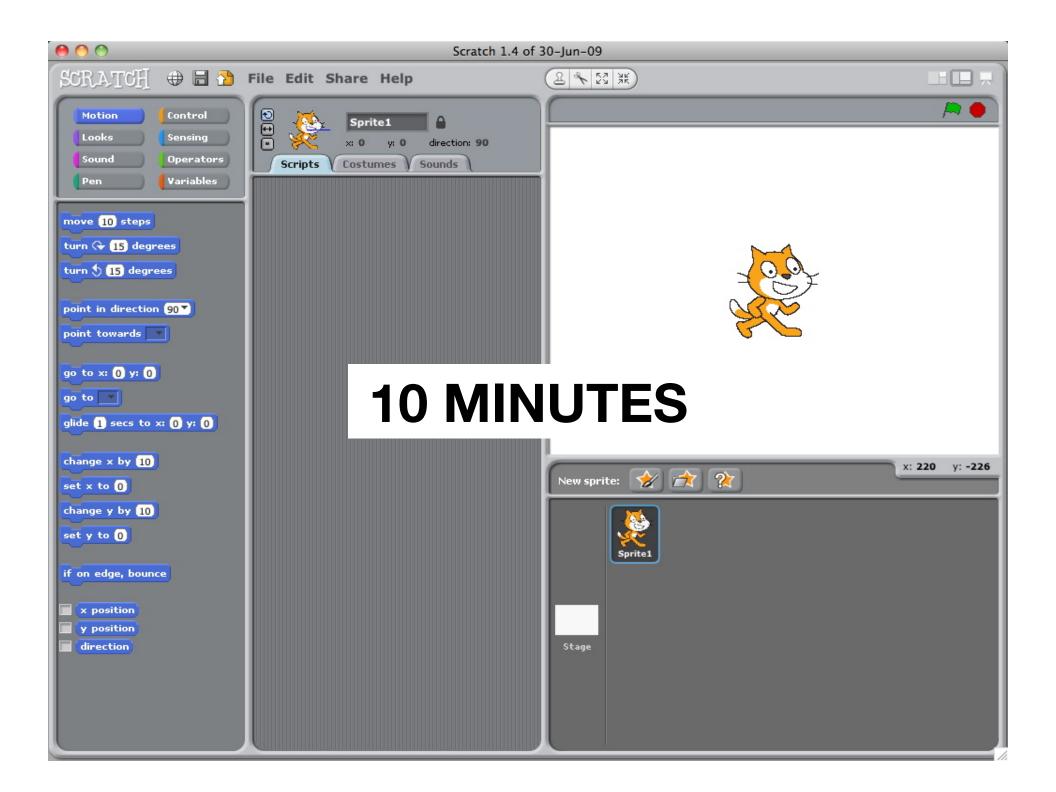
Forums Home Search

You are not logged in.

Scratch			
Forum	Topics	Posts	Last post
Announcements  Watch here for the latest releases of Scratch, and other announcements.	117	17012	Today 12:52:35 by orangeduelmaster1
New Scratch Members This is a forum to welcome new Scratchers to the community. Please post helpful information for new Scratch Members here.	2812	22842	Today 13:53:33 by shiguy101
Show and tell Tell everyone about your projects and galleries.	19320	90138	Today 12:56:21 by sportsdude6
FAQ Frequently Asked Questions	73	3127	2011-09-26 03:48:01 by scimonster
All About Scratch Questions about Scratch? No question is too basic!	8395	57379	Today 12:10:52 by Bigwheel73
Advanced Topics Talk about technical aspects or advanced features.	3413	55953	Today 13:00:09 by WindowsExplorer
Suggestions Ideas for the next version of Scratch or improvements to the Website? Post here.	4509	41445	Today 11:45:27 by DigiTechs
Troubleshooting Problems with Scratch? Think you've found a bug? Post here.	4477	28540	Today 12:45:33 by schusteralex2
Sensor Boards Topics relating to Scratch Boards, PicoBoards, and Scratch	186	1383	2011-09-26 15:30:00 by KrlsMa

**Exploring: Something surprising** 





## **Exploring: Something surprising**

**Cultivating comfort with the tool** 

### **Exploring: Something surprising**

Cultivating comfort with the tool Establishing culture of...

exploration fearlessness student connectedness Reflecting: Our discoveries

### Reflecting: Our discoveries

**Encouraging students to share their discoveries** 

## Reflecting: Our discoveries Encouraging students to share their discoveries

Did anyone figure out how to add sound?

Did anyone figure out how to change the background?

Did anyone figure out how to access the help screens?

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Reflecting: Design notebook question

### Reflecting: Design notebook question

What are three aspects of yourself that you could represent through images or sound?

# Reflecting: Design notebook question What are three aspects of yourself that you could represent through images or sound?

Framing the day's activities
Thinking about CT perspective of expressing

**Creating: About me** 

## **ABOUT ME**



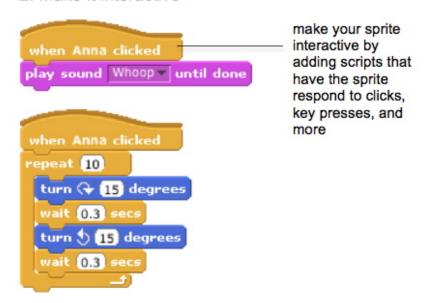
How can you combine interesting images and sounds to make an interactive collage about yourself?

#### STEP BY STEP...

#### 1. Add a sprite



#### 2. Make it interactive



#### 3. Repeat!

## **BLOCKS TO PLAY WITH...** when A clicked when space key pressed move 10 steps go to x: 0 y: 0 glide 1 secs to x: 0 y: 0 say Held for 2 secs change color effect by 25 change size by 10 hide play sound moov until done wait [] secs repeat 10 forever

Reflecting: My design process

### Reflecting: My design process

Asking 2-3 students to share their work

## Reflecting: My design process Asking 2-3 students to share their work

What was your inspiration?

How did you do that?

What did you get stuck on? How did you get unstuck?

What are you most proud of? Why?

What might you want to do next?

## How do we know if we were successful?

# Success? Positive experiences Diversity of creations Desire to learn more

## Strategies Be flexible with the plan It's OK to not know everything

## **Thank You!**

http://www.surveymonkey.com/s/2011-09-webinar

Next webinar: Wednesday, October 26, 2011 at 7pm

Exploring the Scratch Website

http://scratched.media.mit.edu

http://scratched.eventbrite.com