

Computational Thinking Perspectives

ScratchEd Webinar Series

Monday, May 23, 2011

7pm-8pm EST

Hosted by Mitch Resnick and Karen Brennan



Attend an event

Scratch Day is a worldwide network of gatherings, where people come together to meet other Scratchers, share projects and experiences, and learn more about [Scratch](#).

There are currently 125 events in 36 countries. Explore the map or check out the [events list](#) to learn more about Scratch Day events being planned around the world.

In 2010, there were 120 events in 40 different countries. Take a look at [last year's map and events list](#).

In 2009, there were 120 events in 44 different countries. Take a look at the [2009 map and events list](#).

What will happen this year?

Organize an event

You can plan many different types of activities for Scratch Day. For example, you could organize:

- hands-on workshops to introduce newcomers to Scratch
- exhibitions to showcase projects by local Scratchers
- sessions where educators share Scratch experiences
- informal gatherings where Scratchers can share ideas

This site was created to support people in planning Scratch Day events - big or small. There are [resources](#) to help design activities, and [forums](#) to discuss and ask questions. [Create an account](#) to start planning your Scratch Day event.

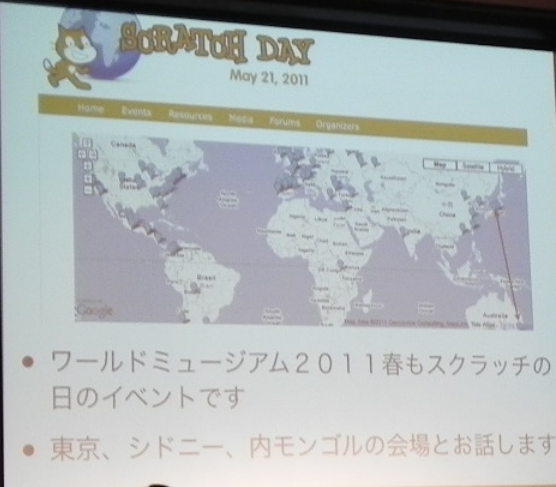
What will your Scratch Day look like?











The screenshot shows the Scratch Day website for May 21, 2011. At the top, it says "SCRATCH DAY" with a Scratch cat icon and "May 21, 2011". Below this is a navigation bar with links: Home, Events, Resources, Media, Forums, and Organizers. The main content area features a world map with various locations marked. Below the map, there are two bullet points in Japanese:

- ワールドミュージアム2011春もスクラッチの日のイベントです
- 東京、シドニー、内モンゴルの会場とお話します

今日5月21日は、

世界スクラッチデー







when I receive Redo

go to front

show

switch to costume Hang

set Moving to 0

go to x: 0 y: -50

forever

if key right arrow pressed?

if Moving = 0

set Moving to 1

point in direction 90

switch to costume Hang

wait 0.1 secs

repeat 3

next costume

wait 0.05 secs

change x by 15

switch to costume Hang

if color is touching ?

set Moving to 0

else

set Moving to 3

switch to costume Fall

repeat until color is touching ?

change Scrolly by 10

when I receive End Game

hide

when I receive Redo

forever

if Moving = 3

if key right arrow pressed?

change x by 10

if key left arrow pressed?

change x by -10

when I receive Level

reset timer

repeat until Coins = 10 and touching Goal ?

set Time to timer

broadcast Button

broadcast End

when clicked

hide

set volume to 50 %

wait 1 secs

forever if touching

set volume to 100 %

play sound BellToll

broadcast Dead and

broadcast Redo

when I receive End

play sound BellToll

hide

Computational Thinking

**Computational thinking is a fundamental skill for everyone,
not just for computer scientists.**

Wing, Computational thinking

Computational Thinking

Computational concepts (March 28, Recorded)

Computational practices (April 25, Recorded)

Computational perspectives (Tonight)

concepts

sequence

loops

parallelism

events

conditionals

operators

variables

lists

practices

incremental/iterative

testing/debugging

reusing/remixing

abstracting/modularizing

perspectives

expressing

connecting

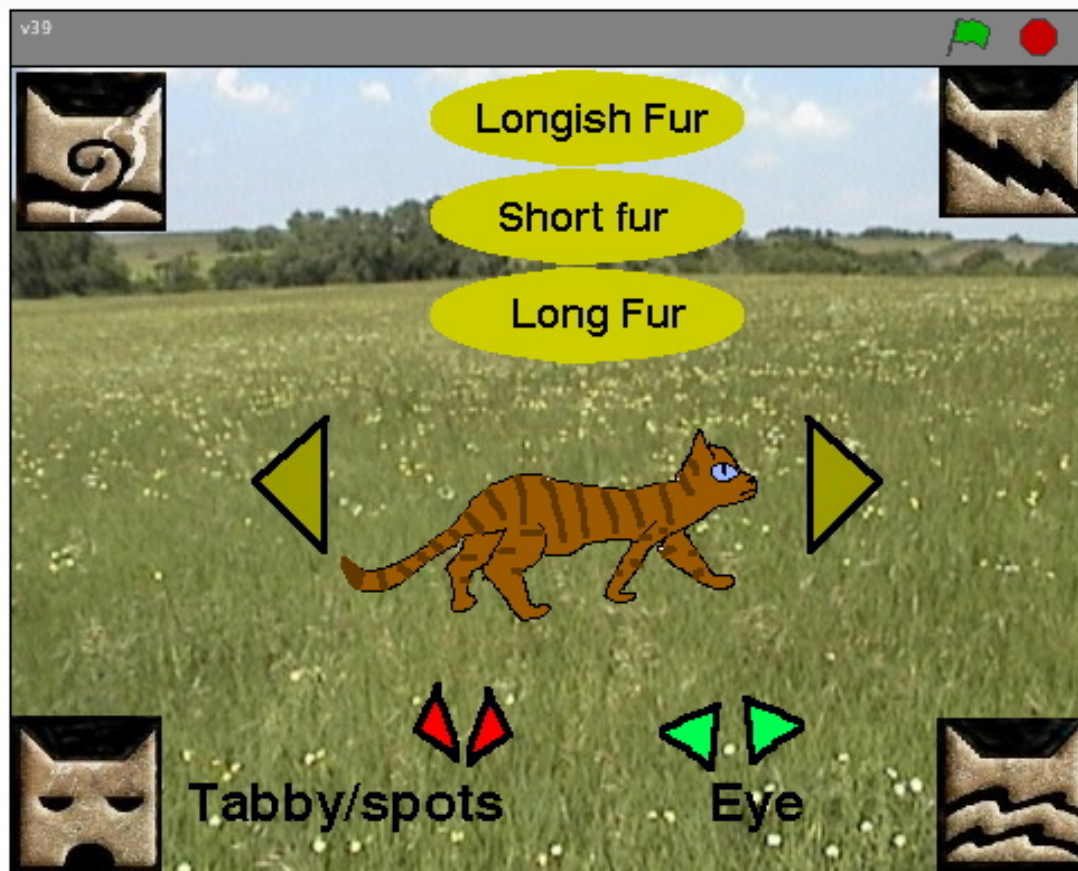
questioning

expressing

I can create.

[Login](#) or [Signup](#) for an account

Warrior cats maker 2



[Emberclaw](#) shared it 2 years ago

© Some rights reserved

905 views, [4 taggers](#), 32 people love it, [2 remixes](#) by 2 people, 58 downloads, in [17 galleries](#)

I love it?

[Add to my favorites?](#)

[Flag as inappropriate?](#)

Download this project!



Download the 21 sprites and 67 scripts of "[Warrior cats maker 2](#)" and open it in [Scratch](#)

Project Notes

Make a warrior cat of the forest! Click the BIG greeny arrows to change fur colors, the little green arrows to change the color of the eyes, and the red arrows to change spots or stripes. And then click a warrior clan symbol to change the clan. Comment on it and say what your cat looks like, and make up a warrior cat name! Make a clan hero!

Tags

[game](#)
[art](#)
[love](#)
[fun](#)
[cat](#)
[meow](#)
[warrior cats](#)
[it](#)
[maker](#)
[make cat](#)



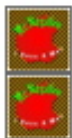
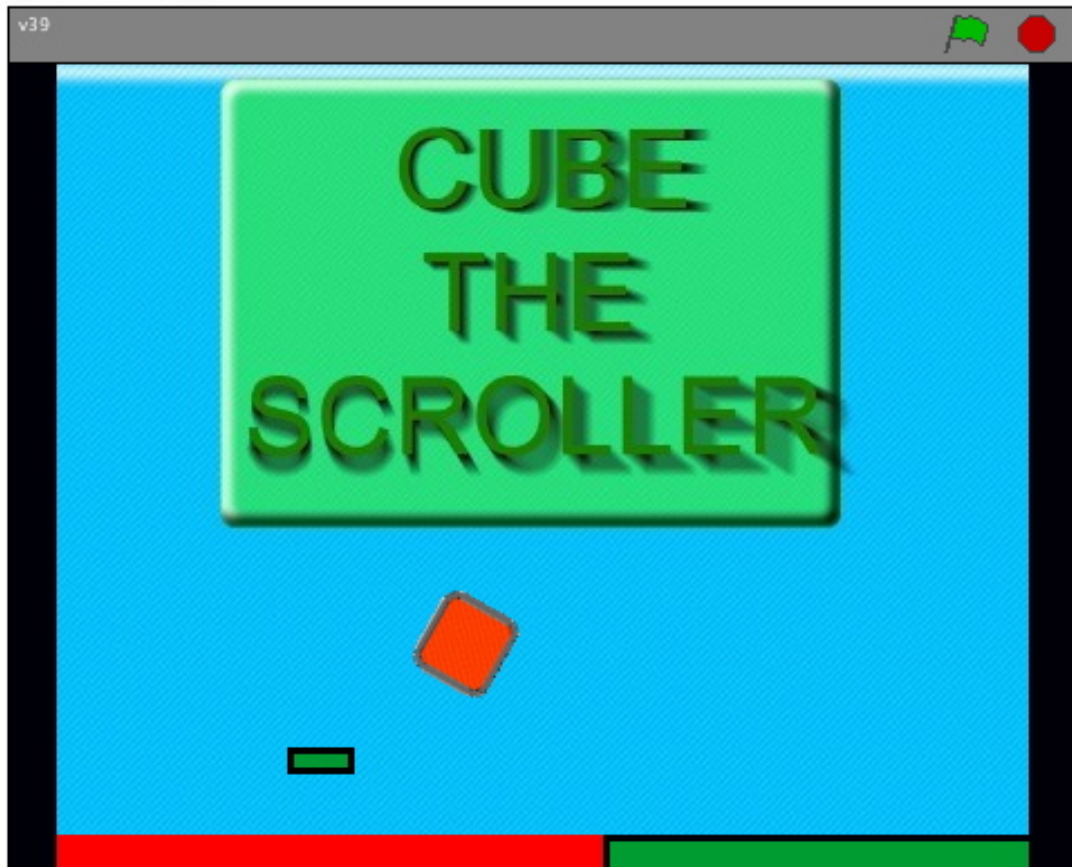
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search

Cube Scroller



[Mr-Negative](#) shared it 2 weeks, 1 day ago

© © Some rights reserved

Based on [Mr-Negative's project](#)

2955 views, [7 taggers](#), 252 people love it, [13 remixes](#) by 11 people, 795 downloads in [31 galleries](#)

Download this project!



Download the 33 sprites and 134 scripts of "[Cube Scroller](#)" and open it in [Scratch](#)



Project Notes

Click This Or Else You Will [\(link to project\)](#) Eat Pie Very Bad Pie

Cool Project [\(link to project\)](#)

Tags

[game](#)
[music](#)
[pong](#)
[awesome](#)
[songs](#)
[cube](#)
[queen](#)
[viewed by whizzer](#)
[suarez](#)

Add Tags

Add

“I like Scratch better than blogs or social networking sites like Facebook because we’re creating interesting games and projects that are fun to play, watch, and download.

I don’t like to just talk to other people online, I like to talk about something creative and new.”

AV: What's your favorite part about Scratch?

Scratcher: Um, maybe that once you upload the whole working thing that you have a project. Or maybe it's just the creativity of Scratch.

AV: What do you mean by that? Can you tell us a bit more about what it means to be creative with Scratch?

Scratcher: Well it's just that there's endless possibilities. It's not like you can just make this project or this project and that's all that you can make.

connecting

I can do different things when I have access to others.

creating with others

co-creation, co-authoring

creating for others

intentional audience



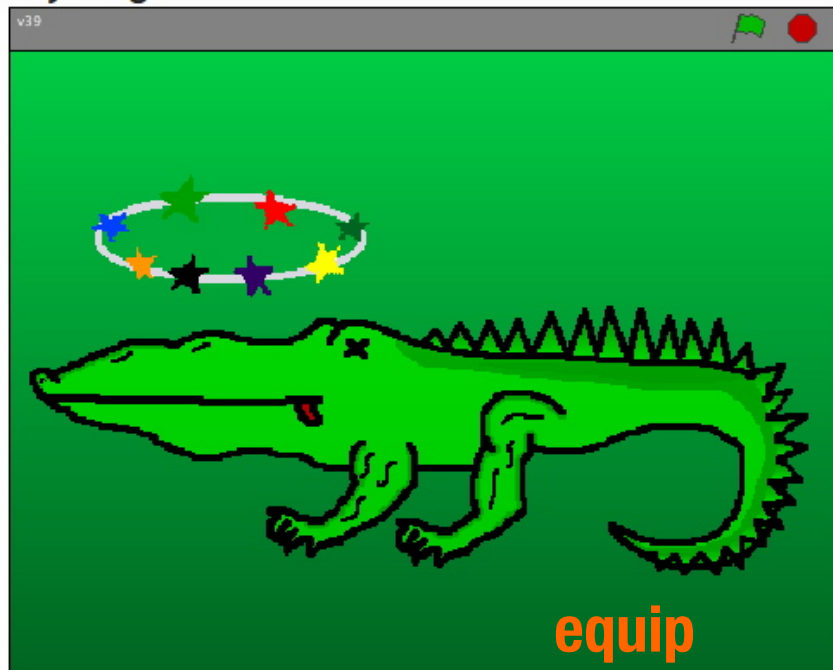
Heroine Lisa~Episode 10



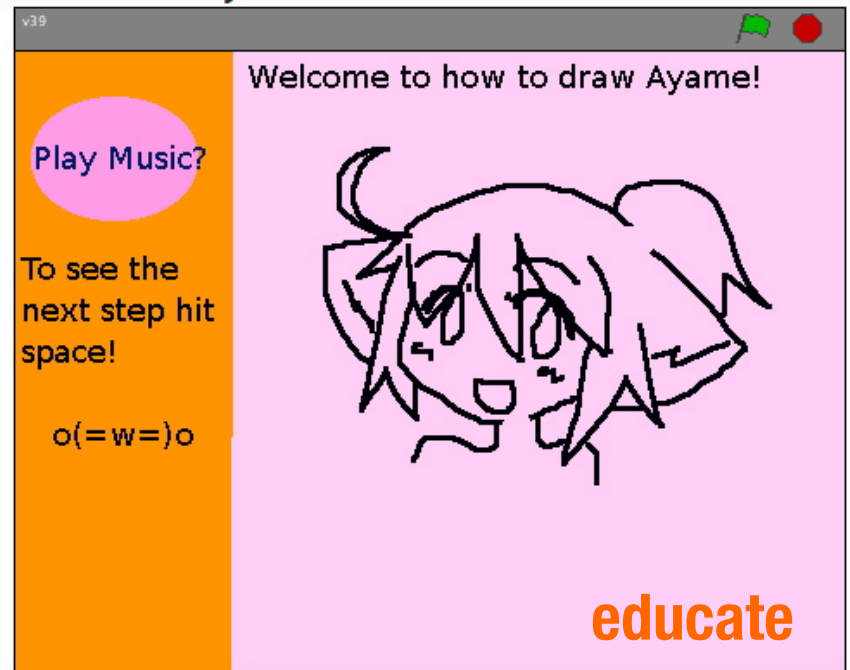
the Scratch survey



Dizzy Alligator for ohiostate02



How to Draw Ayame!



Reflex Tester

My Sports Science Project

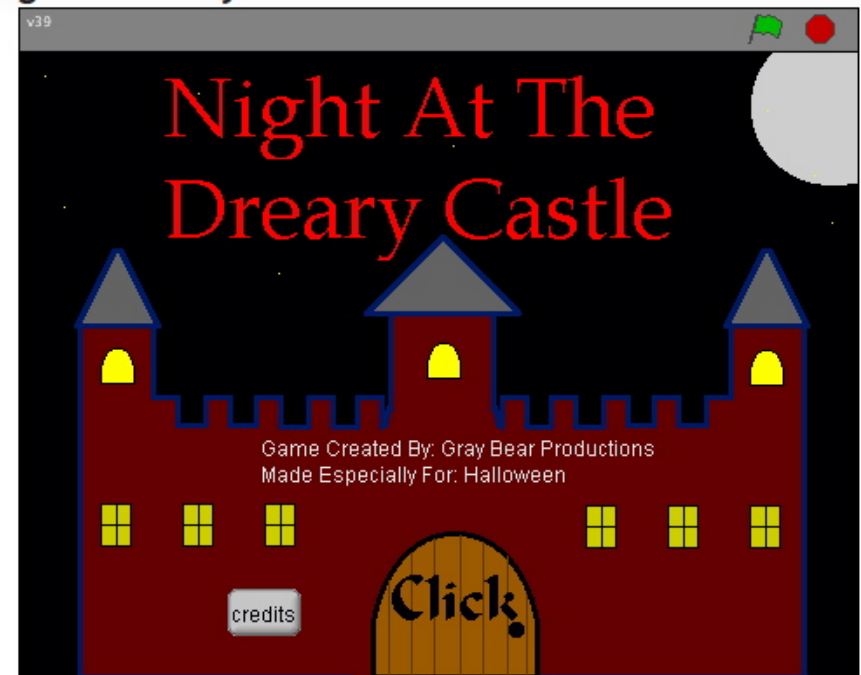
Science Project Results

Reflex Testing
Science Project
Results
by forcemaster

CanYouDance - Contest!



Night At Dreary Castle - No Music



questioning

I can ask questions to make sense of the world.



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Sim City: Evolution



[Simtropolis](#) shared it 1 year, 1 month ago

© © Some rights reserved

Based on [Simtropolis's project](#)

124 views, [2 taggers](#), 1 person loves it, 7 downloads

Download this project!



Download the 46 sprites and 162 scripts of "[Sim City: Evolution](#)" and open it in [Scratch](#)

Project Notes

IF IT STARTS WITH PEOPLE AND THING JUST WAIT A SECOND FOR IT TO REGEN!

This is the extension to my game City creator! it has new features!

NEW FEATURES: Added roads, Happiness, unhappiness, pollution (or air), and jobs!

If the air bar is below 0 (or negative), it means it's polluted. If it's above 0, it's clean air.

PS: The monument and rocket make 200 happy, but cost \$1,000,000!

**“I love Scratch. Wait, let me rephrase that –
Scratch is my life. I have made many projects.**

Now I have what I call a ‘programmer’s mind’.

**That is where I think about how anything is programmed.
This has gone from toasters, car electrical systems,
and soooo much more.”**

Panther - based on Scratch

[Home](#)[Projects ▼](#)[Support ▼](#)[Forums](#)[Download Panther](#)[Meet The Developers](#)[Contests](#)[Featured projects](#)[Panther Features](#)[Tutorials](#)[Upload a project](#)[Blockshop](#)

Many thanks to [Skystar](#) for this amazing image!

Panther - What the community wants

Panther is a programming language aimed at young users with only a small knowledge of programming. Panther offers you a more advanced version of Scratch, a simple programming language developed at MIT.

With a host of new features such as file and webpage manipulation and advanced colour sensing, cloning and much more besides, Panther provides advanced usage for avid Scratchers around the globe as well as new programmers looking for a fluid, easy to understand starting language. *Why not visit our [Wiki page](#) for a full list of our features?*

Welcome to ProgrammingFreak - our newest developer for Panther 1.1!

stats:

Panther

Blockshop

Cultivating CT perspectives

expressing

- supporting a diversity of creations

connecting

- supporting collaborative activities, connecting online

questioning

- looking beyond Scratch

Thank You!

<http://scratched.media.mit.edu>

<http://events.scratch.mit.edu>

Next webinar: Educator Show & Tell

Monday, June 27, 2011

7pm-8pm EST

<http://www.surveymonkey.com/s/2011-05-webinar>