# **An Introduction to the Scratch Curriculum Guide**

ScratchEd Webinar Series
Monday, August 22, 2011
7pm-8pm EST
Hosted by Mitch Resnick and Karen Brennan

What is this guide?
Who is this guide for?
What do I need?
How should I use this guide?
How was this guide made?

Who is this guide for?

What do I need?

How should I use this guide?

How was this guide made?

A guide to supporting the development of computational thinking:

computational concepts
computational practices
computational perspectives

It follows a design-based approach to the learning environment, which emphasizes:

designing personalizing

collaborating

reflecting

Who is this guide for?

What do I need?

How should I use this guide?

How was this guide made?

An introduction to computational creation with Scratch, in:

6 parts

20 sessions

A collection of session plans, with accompanying:

handouts

**Scratch projects** 

videos

# Who is this guide for?

What do I need?

How should I use this guide?

How was this guide made?

Any teacher who wants to support student development of computational thinking through exploration with Scratch.

The guide is written to be:
discipline-neutral
grade-neutral

Who is this guide for?

#### What do I need?

How should I use this guide? How was this guide made?

#### Time

~twenty 50-minute sessions

#### **Materials**

computers (min 1 per 2 students)

projector or whiteboard

speakers

network connection

design notebooks (digital?)

Who is this guide for?

What do I need?

### How should I use this guide?

How was this guide made?

Approach from a design-based perspective:

designing

personalizing

collaborating

reflecting

You don't need to be a Scratch "expert"!

Who is this guide for?

What do I need?

How should I use this guide?

How was this guide made?

**Google-funded Creative Computing workshops** 

**NSF-funded ScratchEd project** 

Amazing workshop participants and ScratchEd online community members

# a six-part introduction to computational creation with Scratch

Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

**Part 6: Conclusion** 

**Session 1** 

Part 2: Music

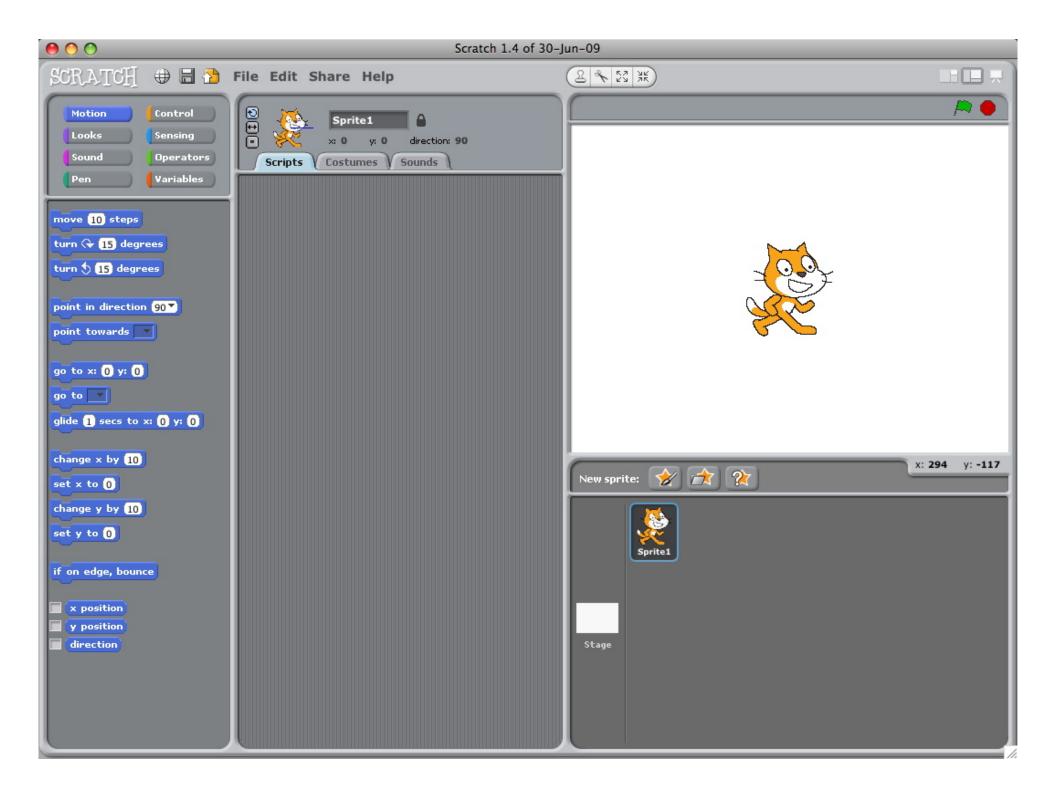
**Part 3: Stories** 

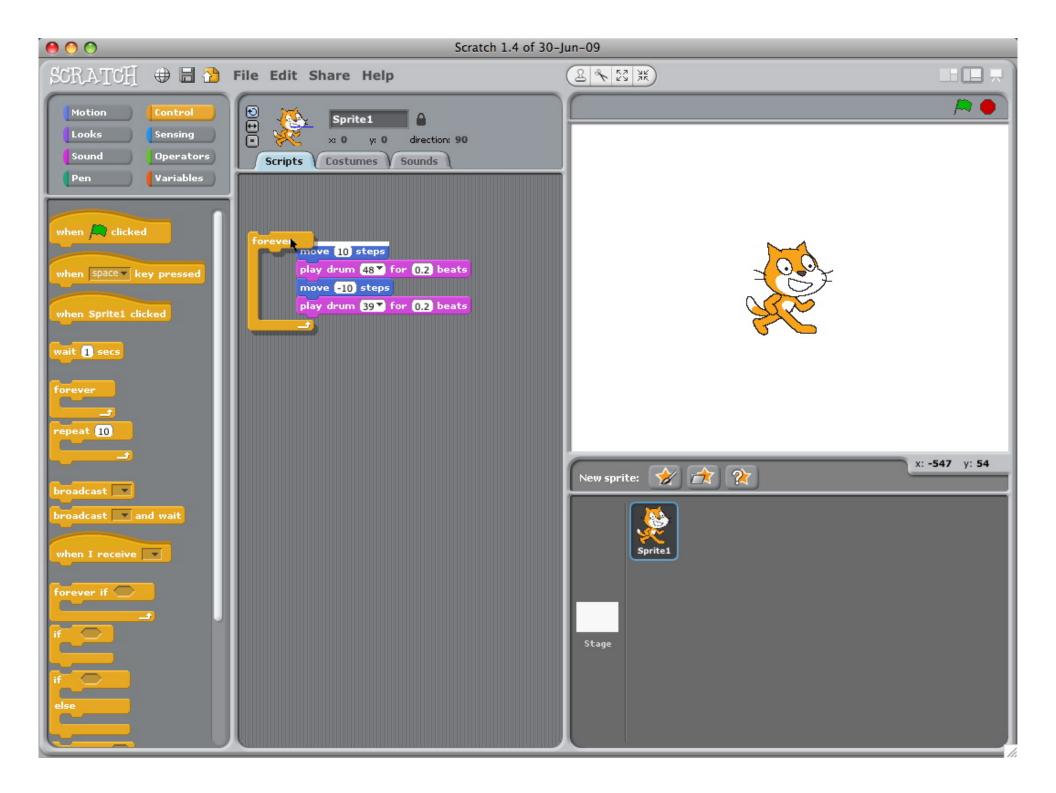
Part 4: Games

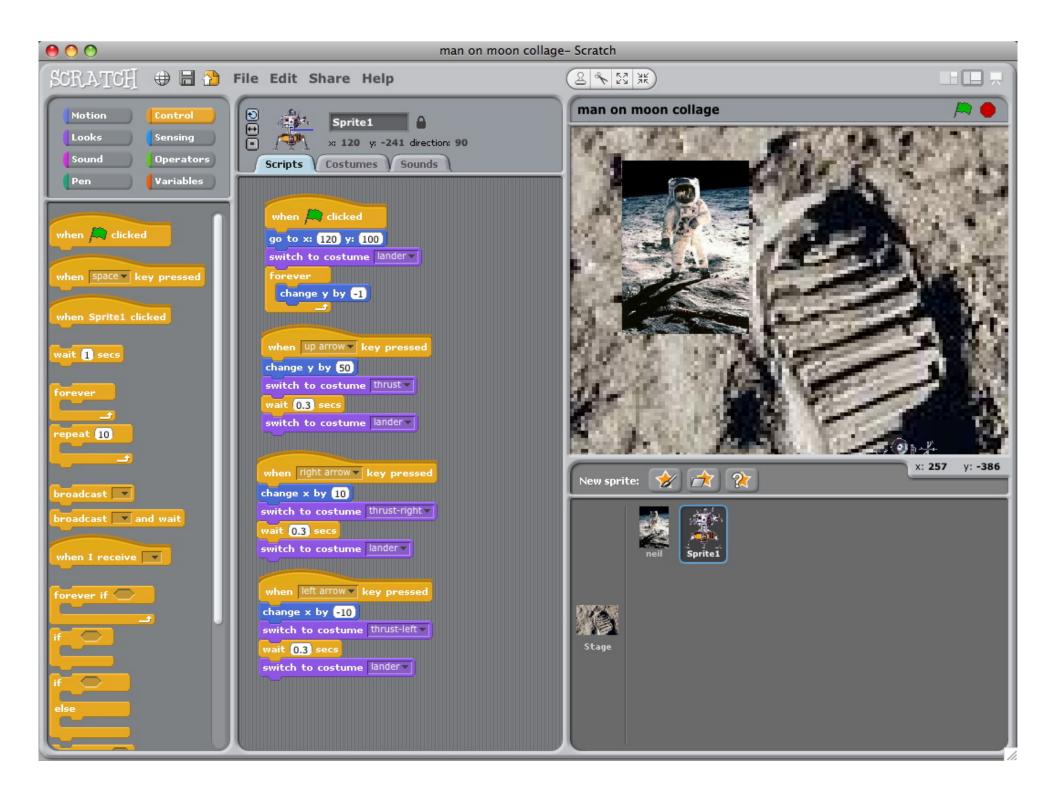
Part 5: Project

**Part 6: Conclusion** 

What is creative computing?







Part 2: Music

**Part 3: Stories** 

Part 4: Games

Part 5: Project

**Part 6: Conclusion** 

#### **Session 1**

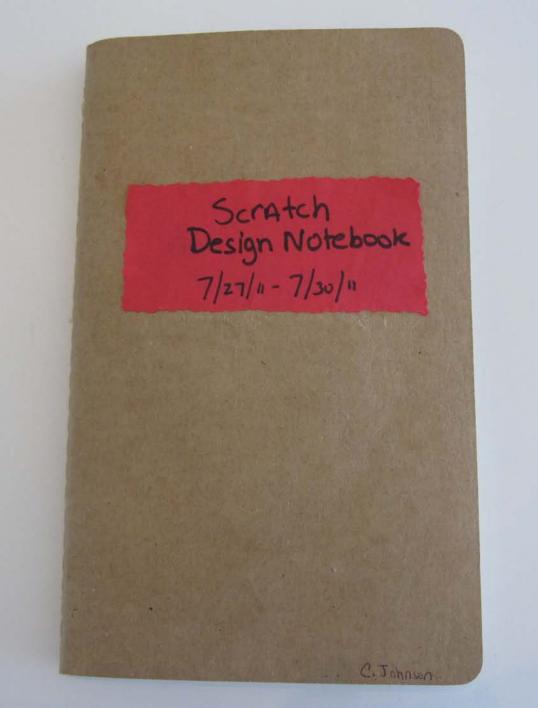
What is creative computing?

**Process** 

**Design notebook** 

**Resources library** 

**Scratch account** 



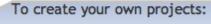
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- understand more of fancois - Pedagogo "day "pryamming concepts
behind scratch. The program. How to impliment More about Conditionals



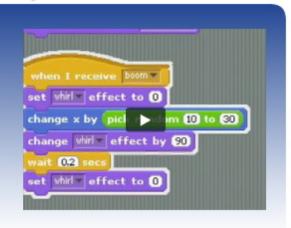


### Create and share your own interactive stories, games, music, and art

Check out the 1,983,019 projects from around the world!







#### **Featured Projects**



by illusionist



by bob6



#### Collab Camp



Collaborate with other Scratchers at Collab Camp to create and share interactive stories.

Learn more



#### Projects Selected by MKR







#### ScratchEd



Do you help people learn Scratch? Join ScratchEd, our new online community for educators.

Find out more

Scratch Design Studio

Part 2: Music

**Part 3: Stories** 

Part 4: Games

Part 5: Project

**Part 6: Conclusion** 

#### **Session 1**

What is creative computing?

**Process** 

**Design notebook** 

**Resources library** 

**Scratch account** 

**Something surprising** 

# **MONKEY BUSINESS**

Find the Monkey costume in the Animals costume library, and make something surprising happen to the Monkey.



Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

**Part 6: Conclusion** 

#### **Session 1**

What is creative computing?

**Process** 

**Design notebook** 

**Resources library** 

**Scratch account** 

**Something surprising** 

**Session 2** 

**About me** 



Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

**Part 6: Conclusion** 

**Part 2: Music** 

**Part 3: Stories** 

Part 4: Games

Part 5: Project

**Part 6: Conclusion** 

**Session 3** 

My favorite song

**Programmed to dance...** 



**Session 3** 

Part 2: Music

My favorite song

**Part 3: Stories** 

**Programmed to dance...** 

Part 4: Games

**Session 4** 

Part 5: Project

**Dance party** 

**Part 6: Conclusion** 



**Session 3** 

**Part 2: Music** 

My favorite song

**Part 3: Stories** 

**Programmed to dance...** 

Part 4: Games

**Session 4** 

Part 5: Project

**Dance party** 

**Part 6: Conclusion** 

**Session 5** 

**Open-ended designing** 

Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

**Part 6: Conclusion** 

**Session 6** 

Part 2: Music

**Six-word stories** 

**Part 3: Stories** 

Part 4: Games

**Part 5: Project** 

**Part 6: Conclusion** 

Mitch Resnick.

Making The would nove like kindegaven

Part 2: Music

**Part 3: Stories** 

Part 4: Games

Part 5: Project

**Part 6: Conclusion** 

**Session 6** 

**Six-word stories** 

**Performing scripts** 



Part 2: Music

**Part 3: Stories** 

Part 4: Games

Part 5: Project

**Part 6: Conclusion** 

**Session 6** 

**Six-word stories** 

**Performing scripts** 

**Session 7** 

**Creature construction** 



Part 1: Introduction Session 6

Part 2: Music Six-word stories

**Part 3: Stories** Performing scripts

Part 4: Games Session 7

Part 5: Project Creature construction

Part 6: Conclusion Pass-it-on



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Part 2: Music

**Six-word stories** 

**Part 3: Stories** 

**Performing scripts** 

Part 4: Games

**Session 7** 

Part 5: Project

**Creature construction** 

**Part 6: Conclusion** 

Pass-it-on

**Session 8** 

Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

Part 2: Music Debug it

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 



Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

**Part 6: Conclusion** 

**Session 9** 

**Debug it** 

**Session 10** 

**Games brainstorm** 

A-maze-ing

Hille Brooks & Dalbers Bloomy Angele towal Farent Dirguni obrazione



Part 2: Music Debug it

Part 3: Stories Session 10

Part 4: Games Games brainstorm

Part 5: Project A-maze-ing

**Part 6: Conclusion** 

**Session 11** 

Maze extensions: variables, lists, user input



| home                           | projects | galleries | support | forums | about | Language 🗹 |
|--------------------------------|----------|-----------|---------|--------|-------|------------|
| Login or Signup for an account |          |           |         |        |       | search     |

#### Login or Signup for an account

## Newest Projects in A-maze-ing

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

#### Subscribe

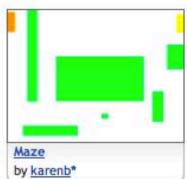














Gallery owner: karenb\*



Created: 4 weeks, 1 day ago

### Gallery description

A gallery for the 2011 BLC Scratch games workshop.

Part 2: Music Debug it

Part 3: Stories Session 10

Part 4: Games Games brainstorm

Part 5: Project A-maze-ing

**Part 6: Conclusion** 

**Session 11** 

Maze extensions: variables, lists, user input

**Session 12** 

Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

**Session 13** 

Part 2: Music

**Project planning** 

**Part 3: Stories** 

Part 4: Games

**Part 5: Project** 

My Independent Project Idea for what I want to develop

My Independent Project Idea for what I want to develop

My Independent Project
Idea for what I want to develop

Steps for how I will develop it

Resources that I'll need

Part 2: Music

**Part 3: Stories** 

Part 4: Games

**Part 5: Project** 

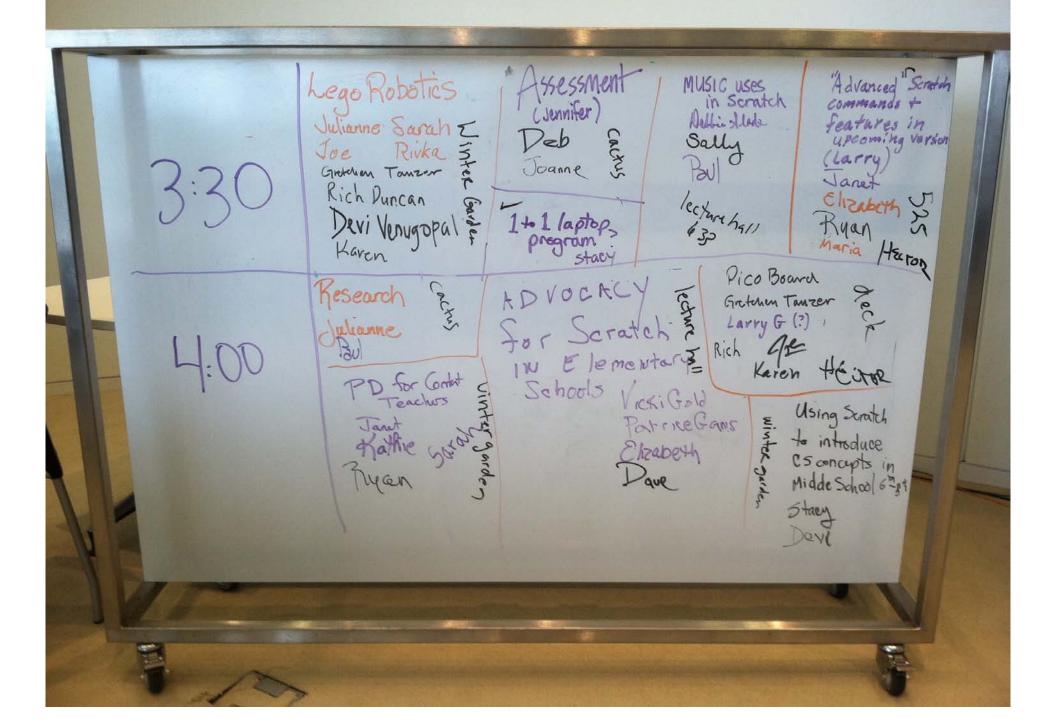
**Part 6: Conclusion** 

**Session 13** 

**Project planning** 

**Session 14** 

**Special-interest groups** 



Part 2: Music

**Part 3: Stories** 

Part 4: Games

**Part 5: Project** 

**Part 6: Conclusion** 

**Session 13** 

**Project planning** 

**Session 14** 

**Special-interest groups** 

**Session 15** 

**Session 13** 

Part 2: Music

**Project planning** 

**Part 3: Stories** 

**Session 14** 

Part 4: Games

**Special-interest groups** 

Part 5: Project

**Session 15** 

**Part 6: Conclusion** 

**Open-ended designing** 

**Session 16** 

**Critique groups for works-in-progress** 



**Session 13** 

Part 2: Music

**Project planning** 

**Part 3: Stories** 

**Session 14** 

Part 4: Games

**Special-interest groups** 

Part 5: Project

**Session 15** 

**Part 6: Conclusion** 

**Open-ended designing** 

**Session 16** 

**Critique groups for works-in-progress** 

**Session 17-19** 

Part 2: Music

**Part 3: Stories** 

**Part 4: Games** 

**Part 5: Project** 

Part 2: Music

**Part 3: Stories** 

Part 4: Games

Part 5: Project

**Part 6: Conclusion** 

**Session 20** 

**Project presentations** 

**Reflections** 





Feedback from workshop attendees Public release of guide draft Feedback from pilot educators and others

Feedback from webinar attendees Revisions of guide

September

Recruit pilot educators

# **Thank You!**

http://scratched.media.mit.edu http://scratched.eventbrite.com

**2011-2012** webinar series announced in early September

http://www.surveymonkey.com/s/2011-08-webinar