

SCRATCH EDUCATOR SHOW & TELL

ScratchEd Webinar Series

Monday, June 27, 2011

7pm-8pm EST

Hosted by Mitch Resnick

With special guests Lisa Radden, Lou Lahana, and Laura Webber

Tonight's Scratch Educators

- Lisa Radden
 - Boston Renaissance Charter Public School (Hyde Park, MA)
- Lou Lahana
 - Island School (New York, NY)
- Laura Webber
 - Roland Park Country School (Baltimore, MD)



Show & Tell

Scratch @ BRCPS

Lisa Radden

Boston Renaissance Charter Public School (Hyde Park, MA)

Getting Started

- 2008-2009: What's Scratch?!
 - C4CFM meetings
 - MIT Media Lab web site
 - Harvard Ed Tech Masters program
- 2009-2010: Try and Buy
 - 1st grade Math class
 - TechSperts Academy: a Grade 4-6 after school program
 - Integrated with Netsmartz.org curriculum
 - Internet Safety games
 - MIT Scratch Day
 - Planning session with MIT Media Lab student
 - ScratchedEd: networking

SOLD! Add it to the SY2010-2011 image

Getting Started

- 2010-2011: Expansion & Integration
 - TechSperts Academy
 - Blog of student reflections
 - Share projects at MIT Scratch Day!
 - Introduced at TLT Workshop
 - Attended Teacher MeetUps at MIT
 - Invited to participate in EDC Scratch Evaluation
 - Provided computational thinking blog questions
 - Integrated into 5th Grade ELA curriculum
 - Coteaching and in-class support provided
 - ScratchEd: rubrics

TechSperts Academy

- ...Blogging our experiences with Scratch on Ms. Radden's blog.
 - Click here to read our blog > >
- ...Meeting twice a month after school.
 <u>Click here to view this year's calendar of meetings > ></u>
- ...Learning how to stay safe online.
 <u>Click here to learn how to Use Your NetSmartz > ></u>
- ...Making Internet Safety games by learning how to Scratch!
 - <u>Click here to view our Scratch games > ></u>

ELA: Bud Not Buddy Unit

- Technology Lead Teacher (TLT) and 5th Grade teacher, Joe Roche
- Objective
 - Illustrate a scene and a theme from the book, But Not Buddy.
- Unit Plan and Project Examples
 - http://scratched.media.mit.edu/resources/ integration-scratch-5th-grade-ela
- Reflections
 - http://scratched.media.mit.edu/resources/ reflections-computation-thinking-blog

Student Examples

- Animate A Word:
 - YAWN:
 http://scratch.mit.edu/projects/techsperts/1675845
 - SPLASH:http://scratch.mit.edu/projects/techsperts/1675847
- Internet Safety Gallery:
 - http://scratch.mit.edu/galleries/view/128720
- Bud Not Buddy Gallery:
 - http://scratch.mit.edu/galleries/view/128723

SY 2011-2012 Planning

- Summer 2011 Computational Thinking Camp @ MIT
 - 2 teachers attending
- Technology Scope and Sequence
 - Grade 4-6: SWBAT use programming skills to think logically, algorithmically, and recursively.
- Professional Development
 - Grade Level Workshops
 - Teacher MeetUps @MIT
 - Scratch Day
 - ScratchEd
- TechSperts Academy

Resources

- Scratch Projects
 - http://scratch.mit.edu/users/techsperts
 The TechSperts
 - http://scratch.mit.edu/users/jroche
 Joe Roche
 - http://scratch.mit.edu/users/lradden Lisa Radden
 - http://www.brcps.org/technology/techsperts-academy/
 The TechSperts
- Scratch Ed Profiles
 - http://scratched.media.mit.edu/lradden
 Lisa Radden
 - http://scratched.media.mit.edu/user/8380
 Joe Roche
 - http://scratched.media.mit.edu/stories/techsperts-attendscratch-day-mit
- Reflections/Blog Questions
 - http://scratched.media.mit.edu/resources/reflectionscomputation-thinking-blog
- Rubrics
 - http://scratched.media.mit.edu/resources/internet-safetygame-rubric-and-criteria



Questions?

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Show & Tell

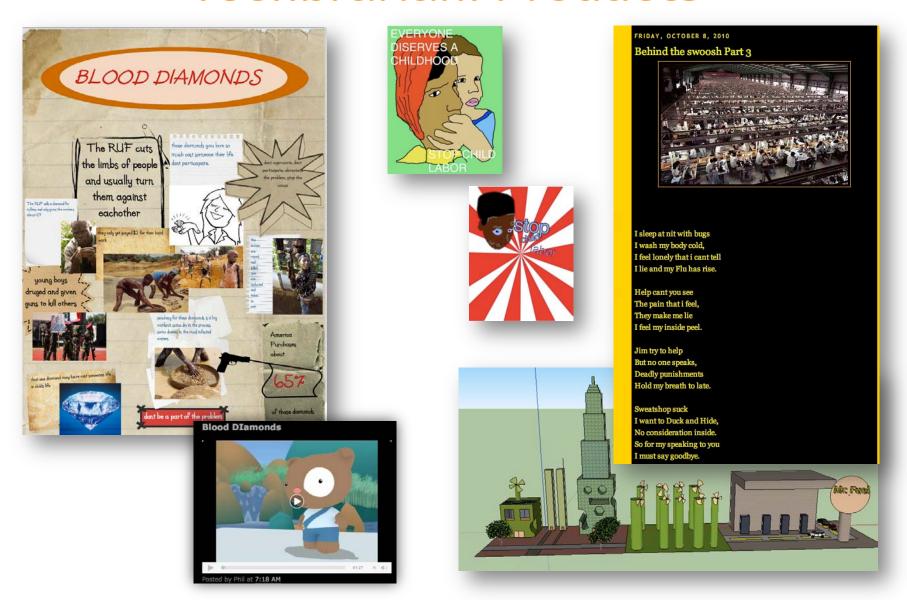
Scratch + Blogging = Social Action

Lou Lahana

Island School (New York, NY)

Techbrarian.com

Techbrarian: Products



Scratch & Social Issues: Flower Bombs

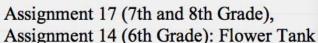


Blog + Scratch





Assignments - Scratch Projects





In this Scratch lesson, you'll be taking a tool for violence and changing it into a tool of beauty. Much of the programming skills you'll need for this lesson you already have! One of the differences in this lesson is you'll need to use a special folder filled with images that's not included in Scratch.

You can download the Flower Tank folder HERE. Once you download it, double-click on it to open it.

CLICK HERE FOR FLOWER TANK, PART 1

Extra Credit: Soldiers & Speed

1. You'll notice in the "Flower Tank" folder that there are some male and female soldiers and male and female gardners. Try to write a program that has the soldiers running around, but if they get hit with a seed, they turn into farmers.

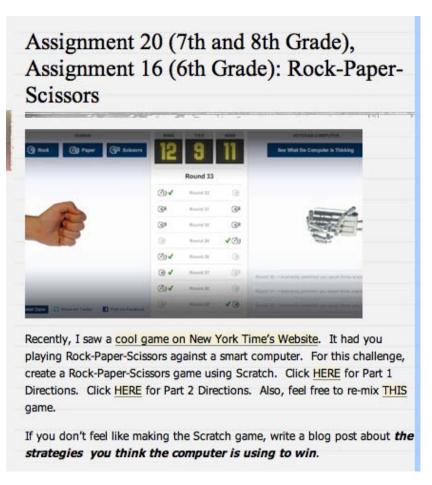
Think about how you can use the following code blocks:

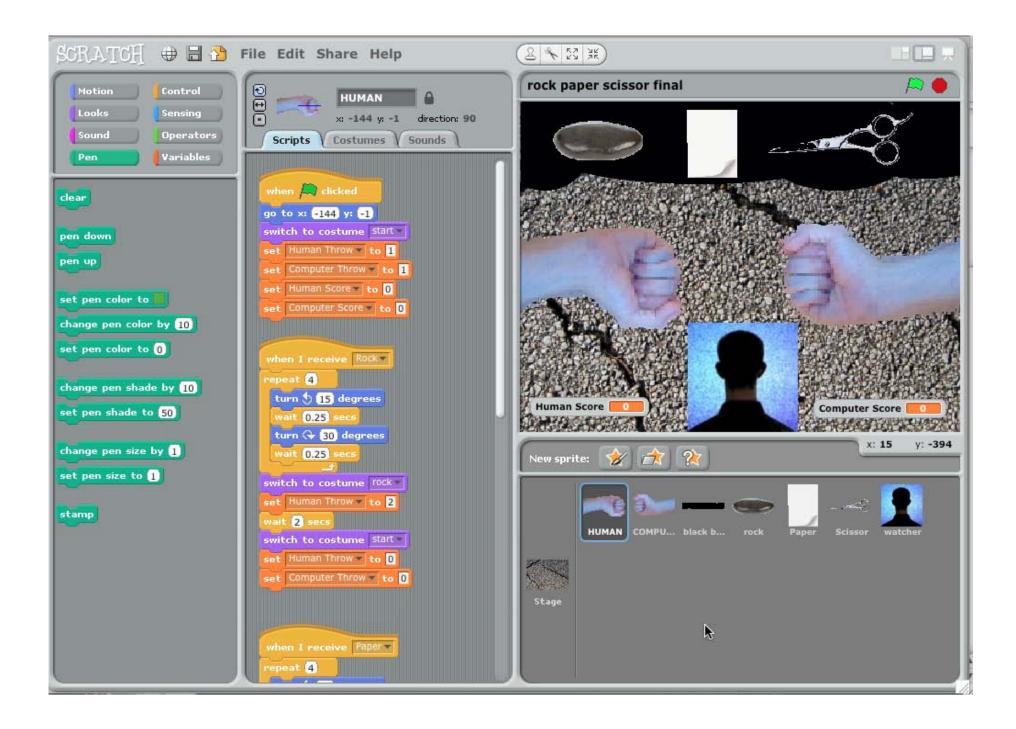


Artificial Intelligence

Read/Played a New York Times article about Watson And its application to Rock, Paper, Scissors

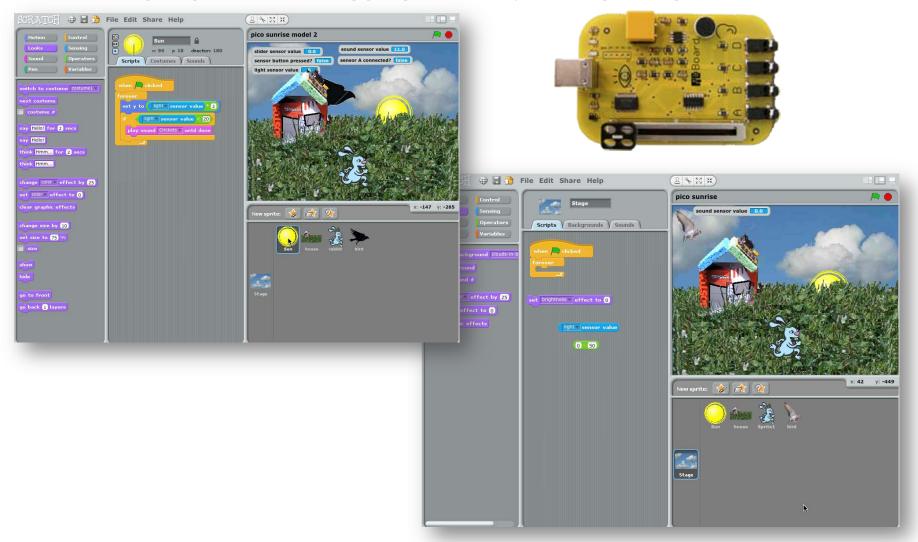




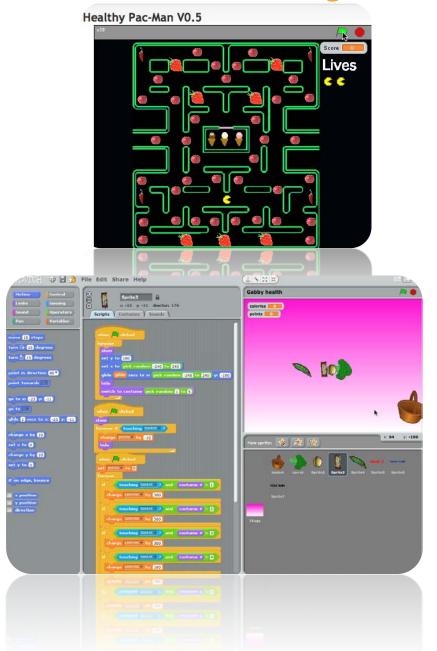


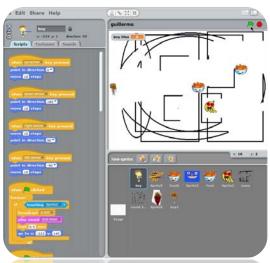
PicoBoard

Piecing together, debugging, and expanding using the PicoBoard



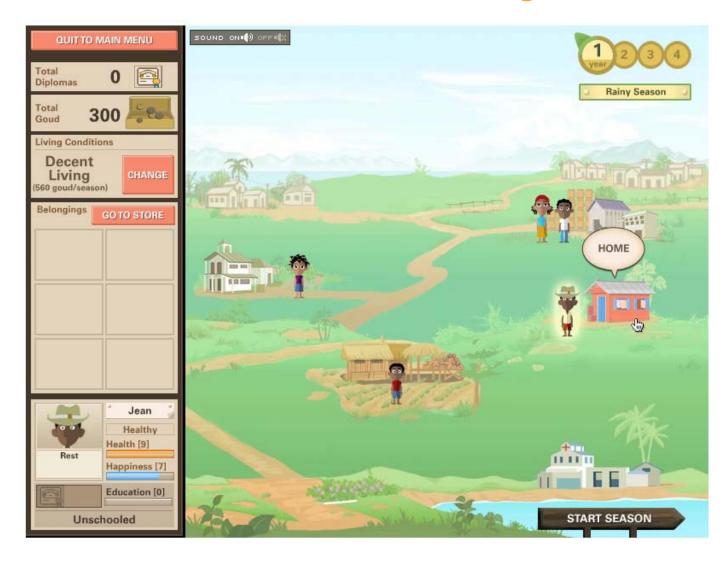
Healthy Eating Contest







Serious Games: Ayiti



Future Directions

- Ayiti Adaptation
- More use of Scratch Board
- Osculator + Wiimote
- Classroom teacher Collaboration

Contact

- For more information go to:
 <u>Techbrarian.com</u>
- Contact Info: <u>Lou.Lahana@gmail.com</u>
- For more videos go to:
 Vimeo.com/user4957028



Questions?

Scratch + Blogging = Social Action

Lou Lahana

Island School (New York, NY)

Techbrarian.com



Show & Tell

Scratch @ RPCS

Laura Webber

Roland Park Country School (Baltimore, MD)

About RPCS

- K-12 Independent Girls' School
- Baltimore, Maryland
- Cross-Registration with Gilman (Boys' School) and Bryn Mawr (Girls' School)
- 3 courses
 - Introduction to Computer Science: Games & Graphics
 - Matlab
 - AP Computer Science

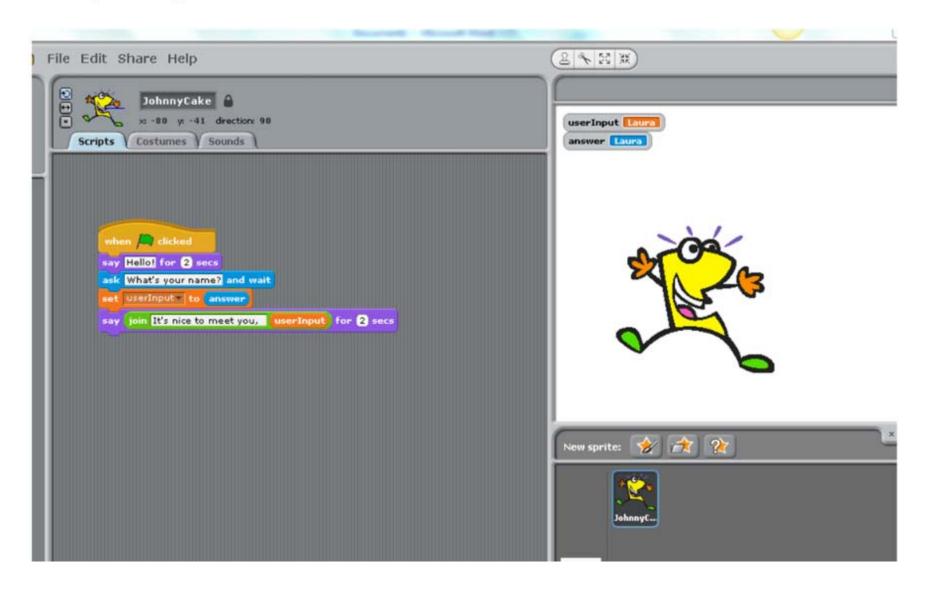
Why Scratch at RPCS?

- No prerequisites for APCS
 - Intro is a new elective class
 - Not mandatory
 - 9th and 10th graders.
- Programming is really weird if you're thinking about semi-colons and brackets all the time.
- Girls respond to artistic, creative aspect of programming.
- Special 9th grade cohort of APCS especially responsive.

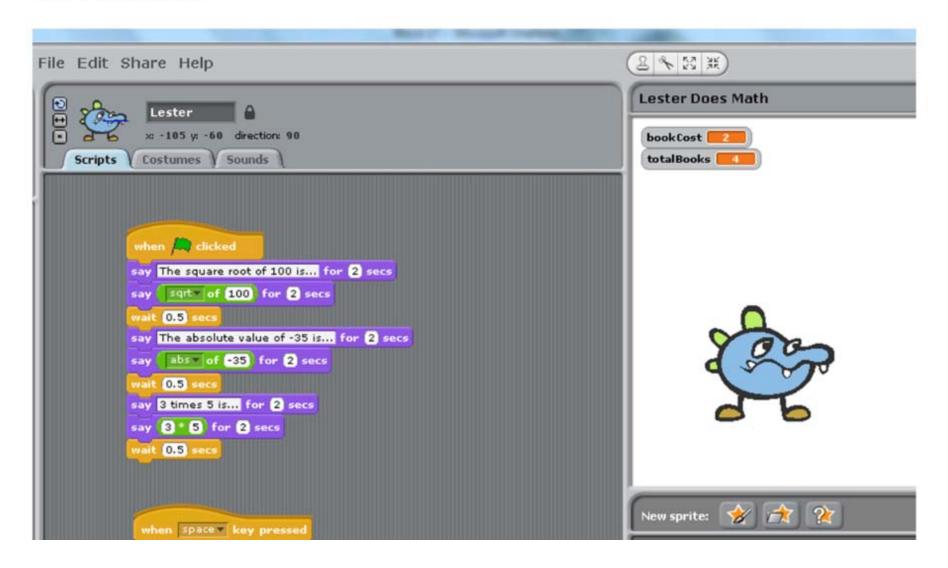
Scratch Topics for APCS

- Strings
- Math functions
- Variables
- Loops
- Conditionals
- User input
- Random behavior
- Lists
- Broadcasts

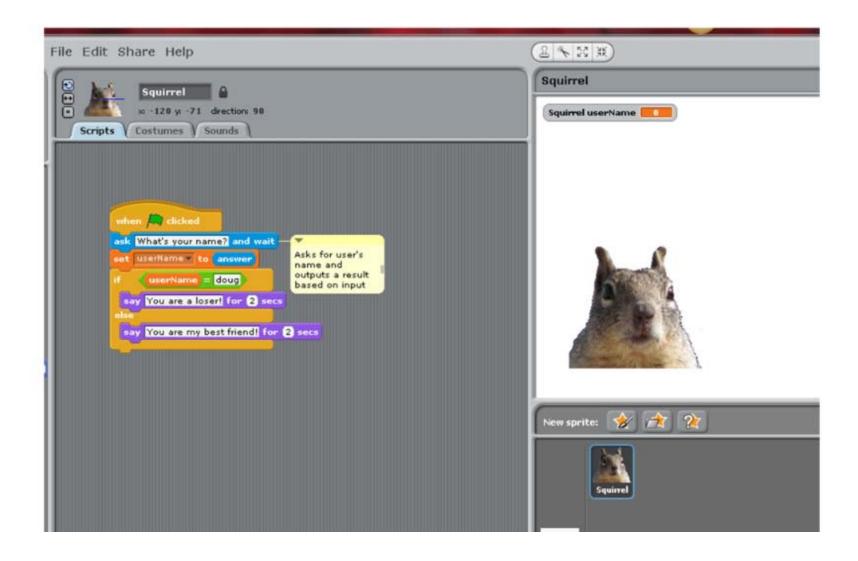
User Input: Strings JohnnyCake Says Hello



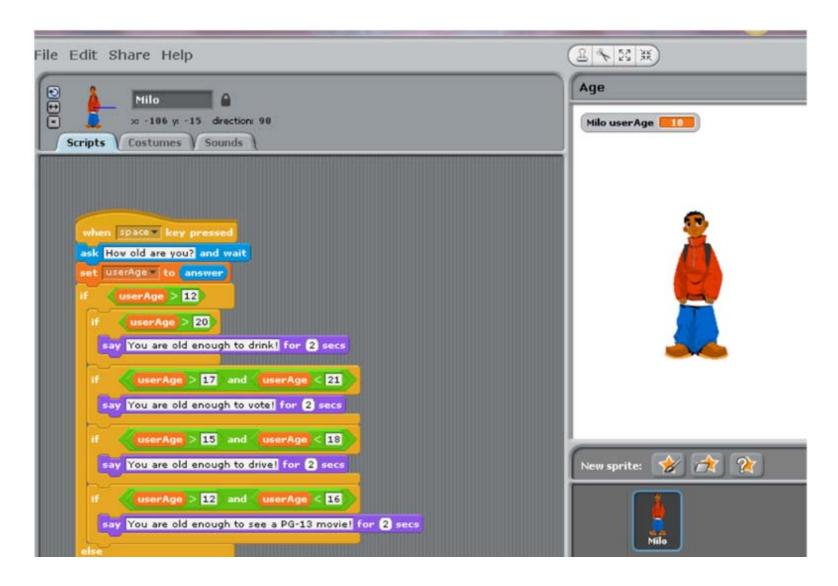
User Input, Arithmetic, and Variables Lester Does Math



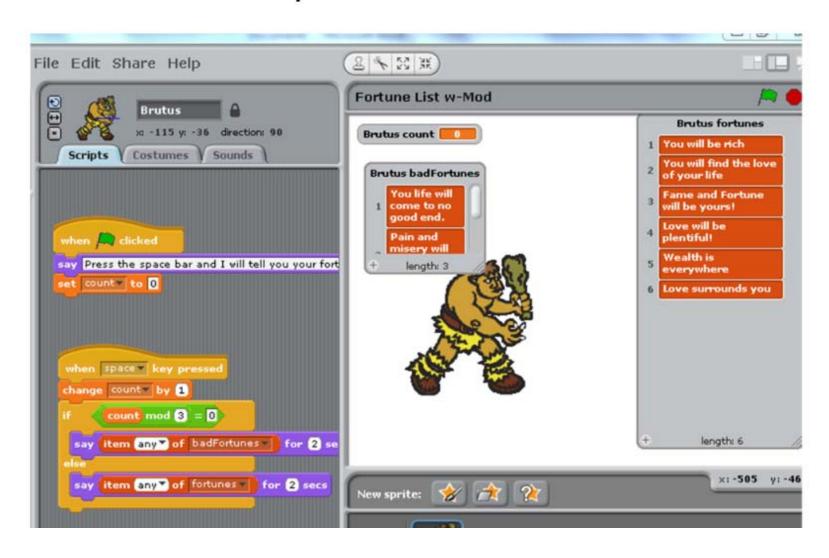
User Input & Conditionals



Making Decisions with Conditionals



Give a Bad Fortune Every 3 Time the User Asks

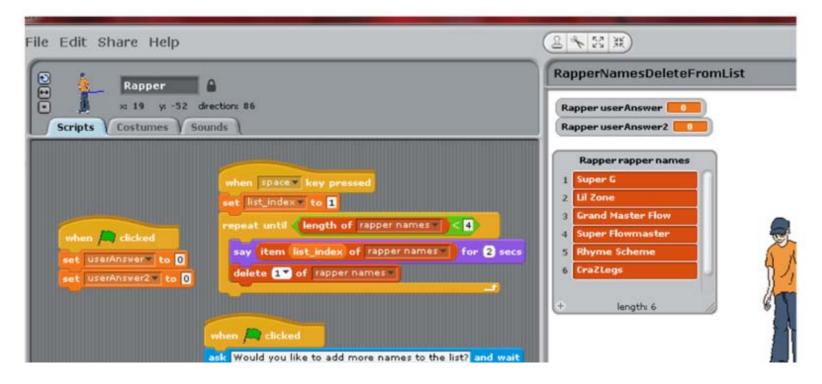


Rapper Names: Adding to and Deleting from a List

When the space bar is pressed, this program deletes three names from the top of the list and then stops. Each time the name is said, it is then deleted from the list.

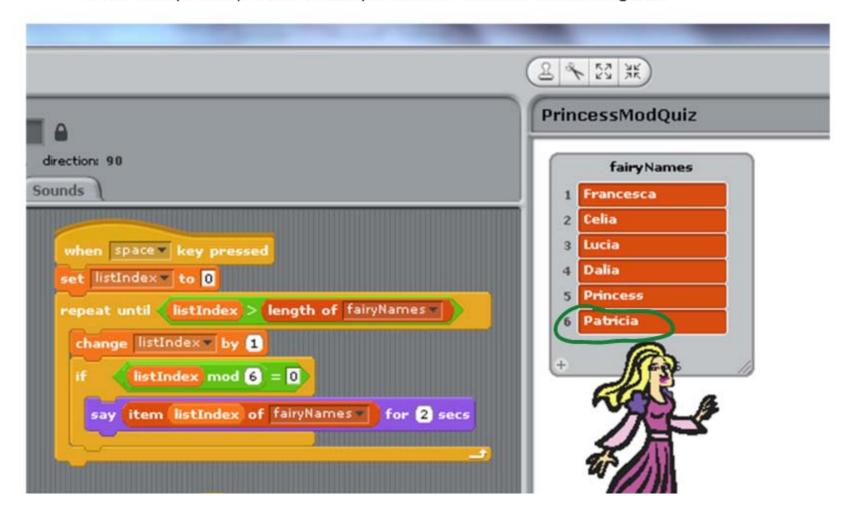
When the green flag is clicked, it resets the two variables userAnswer and userAnswer2 back to 0 and then asks the user if they would like to add more names to the list.

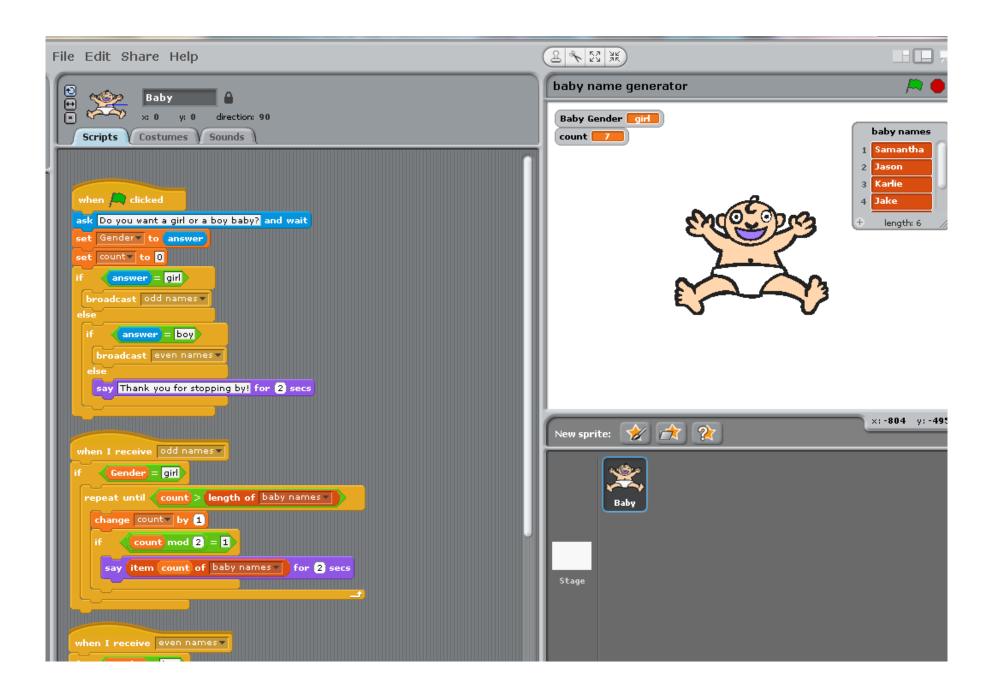
As long as the user doesn't press the 'x' key, the program adds the names the user types in to the bottom of the list. When the user presses the 'x' key, the program says goodbye and stops.



Princess Quiz – Answer Key

 When the space key is pressed, the Princess loops through the list until she finds a name whose index is divisible by 6 (listIndex mod 6 = 0). The only name that meets that criteria is "Patricia." So for this question, the Princess says the name "Patricia" and nothing else.







Questions?

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THANK YOU!

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

Next webinar: ScratchEd Resources

Monday, July, 25, 2011

7pm-8pm EST

http://www.surveymonkey.com/s/2011-06-webinar