

Scratch Training (Part II)

code::XtremeApps::2010

Junior Category

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Outline



- About CXA Junior Category
- Introduction to Scratch & Quick Demo
- Scratch Training (Part I)
- Break
- ⇒ Scratch Training (Part II)
 - CXA-2010 Tagline and Team tasks





SCRATCH

Notes modified from workshop by

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Part 1

- Tour of the Scratch interface
- Basic Scratch concepts and commands
- Create a sample project
- Inspiration from existing Scratch projects

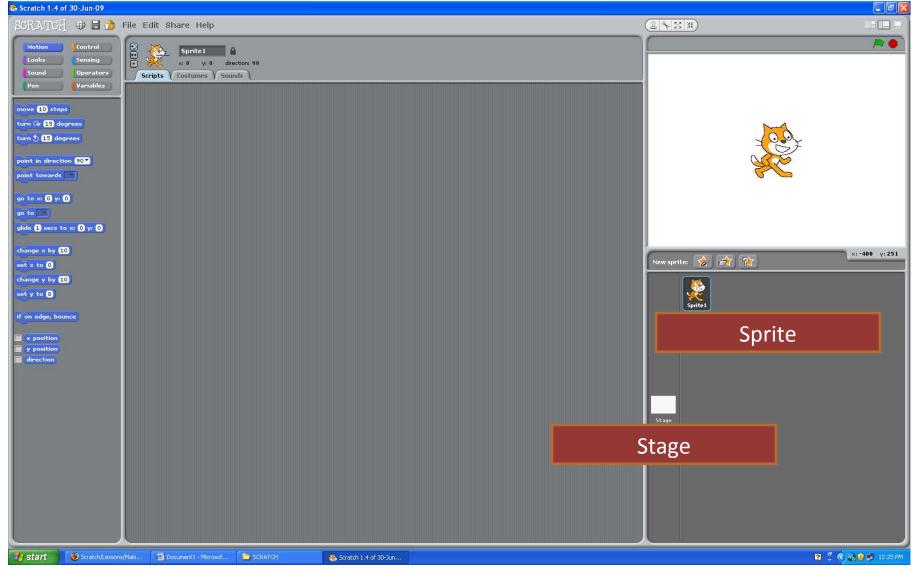
PART 2

- Learn about the display area
- Stage vs Sprite
- Explore Paint Editor
- Make a Slideshow
- Make an e-Book
- Create a sample project: Paddle-pong
- DIY: Make an animated greeting card

Scratch Display

	0,+180
	0,0
-240,0	+240,0
	0, -180

Stage vs Sprite



DIY: Animated Greeting



Plan for Animated Greeting

Slideshow



Plan for Slideshow...

- Have a title for the slide show
- Slides are displayed on stage
 - Stage has different background
 - Can use import function to import photos (one at a time)
- Use right-arrow key to navigate slideshow
- Have a starting photo (background)

e-Book



Plan for e-Book

- A book has a TOC (Table of Contents)
 - Represented by a Text-Sprite
- In TOC, there are many chapters
 - Use buttons (sprite) to represent chapters
- Also need Instruction sprite...
 - To tell user how to proceed from TOC screen
- When chapter is "chosen",
 - send appropriate message for chosen chapter

Paddle-Pong

SCRATCH-CARD 18-21



Plan for Paddle-Pong

- Paddle that moves horizontally
 - Control by left/right arrows
- Balls fall from top to bottom
- To detect when paddle "touches" ball
 - Use sensor "touching _____?" block
- Use variable to remember points collected
 - Must reset it at the beginning of each game

What did we do today?

- Which palettes did we use ?
- Control
 - broadcast, when I receive (communication)
 - wait (hold on)
 - repeat , forever (loop)
- Looks
 - Hide/show
 - Costume/ background
 - Size , x & y coordinates
 - Speech bubble, say block
- Sound
 - Record, import
 - Play
- Motion
 - Move, turn, x,y

Reference:

http://scratch.mit.edu

http://scratch.mit.edu/forums

Scratch 1.4: Beginner's Guide: Michael Badger