Scratch It Up

Enrique Guzman
Program Coordinator, UC Santa Barbara
Some may think:
The tech industry is desperately trying to hire computer programmers in California.
The tech every industry is desperately trying to hire computer programmers in California everywhere
Some may think:

Computer science is just about learning technology
Computer science is just about learning technology.

Computer science is about logic, problem solving, and creativity.
Objective

Design and create an interactive video game using Scratch within the designated time limit.
Overview

● Pairs create a game within 60 minutes
● Labbooks may be used the day of event
● Ask Center host if teams need to provide own devices
● Limits may apply due to facilities
Why?

- Prepare students for CS and technical Careers
  - Technical interviews
  - Hackathons
Goals

- Implementation of CS Concepts
  - Code blocks not graded
- Design before creation
- Work within time constraints
Points System – the game must have a point system
A User Controlled Character

Events

- when green_clicked
- when space key pressed
- when this sprite clicked
- when backdrop switches to Backdrop1
- when loudness > 10
- when I receive message1
- broadcast message1
- broadcast message1 and wait

- when up arrow key pressed
  - turn -45 degrees

- when left arrow key pressed
  - move -20 steps

- when right arrow key pressed
  - move 25 steps

- when down arrow key pressed
  - turn 45 degrees
non-Player Controlled (NPC) Character
Background
Background
Instructions Start Menu and Restart

Use the Arrow Keys to move the Cat

Make contact with dog to stop the erratic movement

START
Instructions Start Menu and Restart
Resources

● Google Game Design

● Scratch Wiki
  ○ https://en.scratch-wiki.info/wiki/Scratch_Wiki

● Sample from presentation
  ○ https://drive.google.com/file/d/1A9cpyGgas1HfaTp0bTq0wAnpuljFzBPZ/view?usp=sharing