Scratch 2.0
http://scratch.mit.edu/

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Scratch Ed Team

- https://creative-computing.appspot.com/team
- Follow members of the team to learn more of developments in scratch and see cool projects. Follow Mitch at http://scratch.mit.edu/users/mres/ to play with the balloons and bugs. (to be explored after break)
Aim

Description:

- Hands-on experience of Scratch 2.0.
- Develop one’s own programs, remix programs and share them.
- Explore developed projects hosted on the Scratch website.
- Encourage Creativity, Problem Solving, etc.
- Be exciting and fun.
Introductory Activity

What Can I make with Scratch?

- Animations
- Games
- Games with sensors
- Quiz
- Social networking games
- Interactive lessons
What you need?

- Internet Access. Scratch 2.0 is web based:
- Scratch Account and ScratchEd Account
- Google Account – Design Notebook?
- Additional Resources:
  - Makey Makey
  - Camera
  - Microphone
Format of Workshop:

- Explore the Scratch website
- Review Scratch Interface
- Basic components
- First project: About me, Debug it.
- Remix
- Join the teacher network: ScratchEd
- Explore advanced features
The Scratch Interface
Activities 1-4 (group work)

- Ten Block Project, About me
- Debug It
- Explore the Scratch website, find a favorite, modify or extend
- Creative Project
Other Resources:

- http://scratched.media.mit.edu/resources/all
- http://scratched.media.mit.edu/search/node/Scratch%20cards
- Scratch Cards: http://info.scratch.mit.edu/Support/Scratch_Cards
- https://creative-computing.appspot.com/videos
Online Lessons

- http://learnscratch.org/learnscratch/LP_Scratch2.pdf
- http://scratch.ie/post-primary/students
Some activities: Puzzles from the Scratch Ed Team.

- Create Scratch programs that solve the following interactivity puzzles.
  - Whenever you press the B key, the sprite gets a little bigger. Whenever you press the S key, the sprite gets a little smaller.
  - Whenever the sprite hears a loud sound, it changes color.
Other Activities: Debug It from Scratch Team

Remix to fix.

- [http://scratch.mit.edu/projects/10437040/](http://scratch.mit.edu/projects/10437040/) When the green flag is clicked, both Gobo and Scratch Cat should start dancing. But only Scratch Cat starts dancing! How do we fix the program?

- [http://scratch.mit.edu/projects/10437249/](http://scratch.mit.edu/projects/10437249/) In this project, when the green flag is clicked, the Scratch Cat should start on the left side of the stage, say something about being on the left side, glide to the right side of the stage, and say something about being on the right side. It works the first time the green flag is clicked, but not again. How do we fix the program?
Thank you.

- CS4HS Team at Rutgers
- Scratch Ed Team