

Scratch Workshop 2018

Code to Learn, Learn to code!

Introduction

Introduction the Scratch way! :) - https://scratch.mit.edu/projects/215984658/

So let's begin with...

- What's programming
- Setting up Scratch
- Exploring scratch work area
- Create, run and save your own first project using basic blocks!

What's Programming?

- What are computers and where do we see computers around?
- Why computer science?
 - https://www.youtube.com/watch?time_continue=56&v=QvyTEx1wyOY
- What is coding algorithms and programs ?

What is Scratch?

https://vimeo.com/65583694#at=2

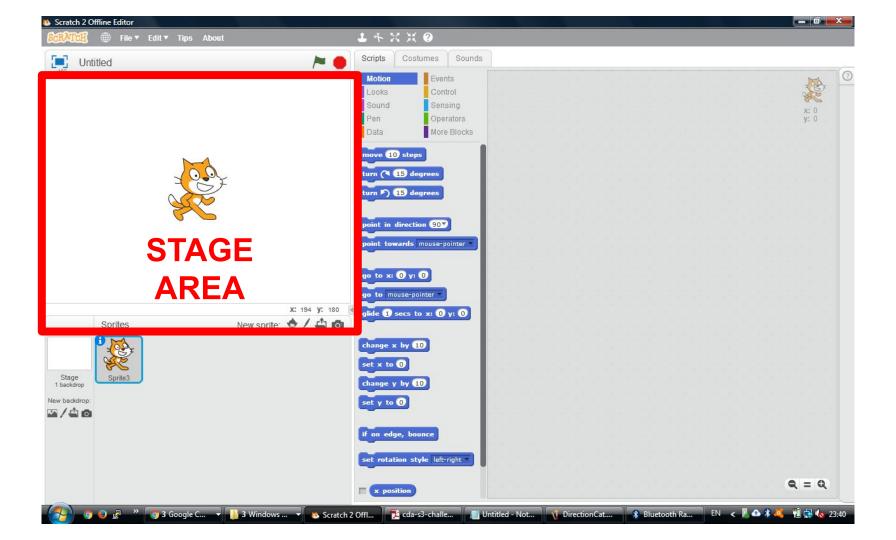
Some more details on scratch:

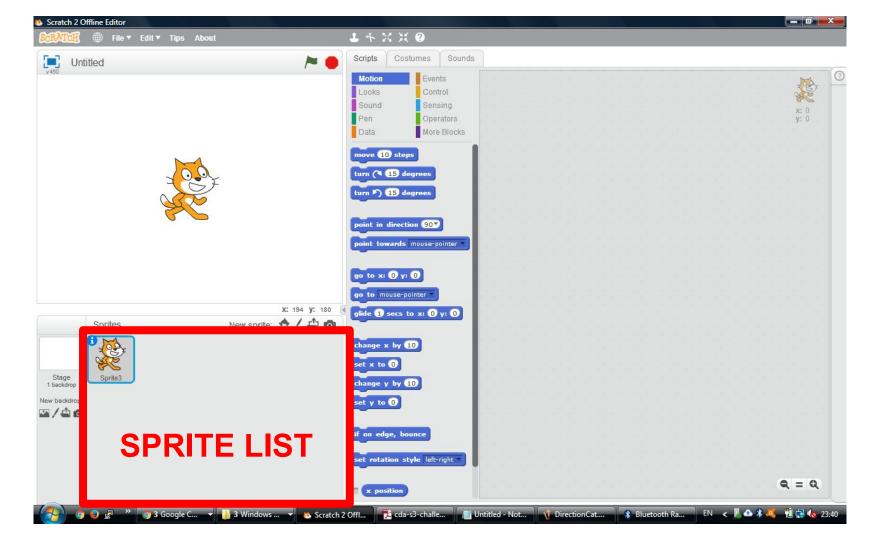
https://www.youtube.com/watch?v=_q2RgQMc96k

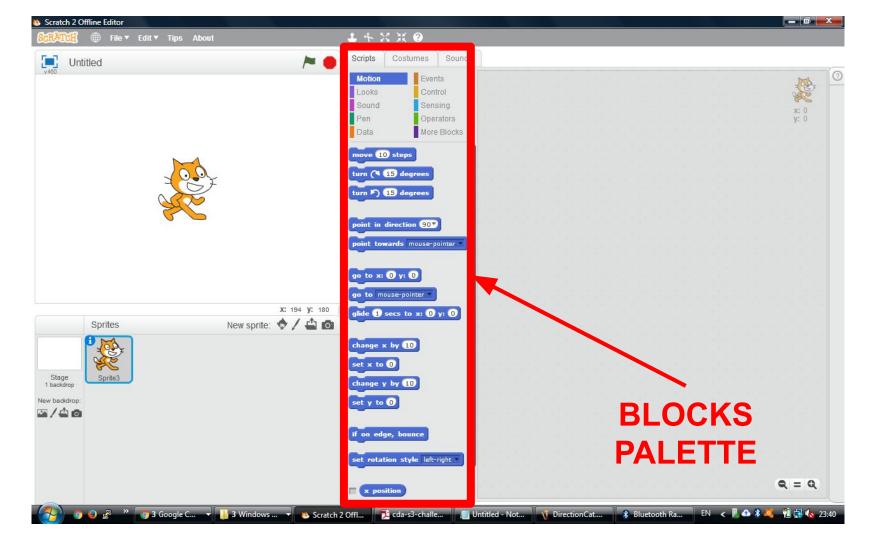
-

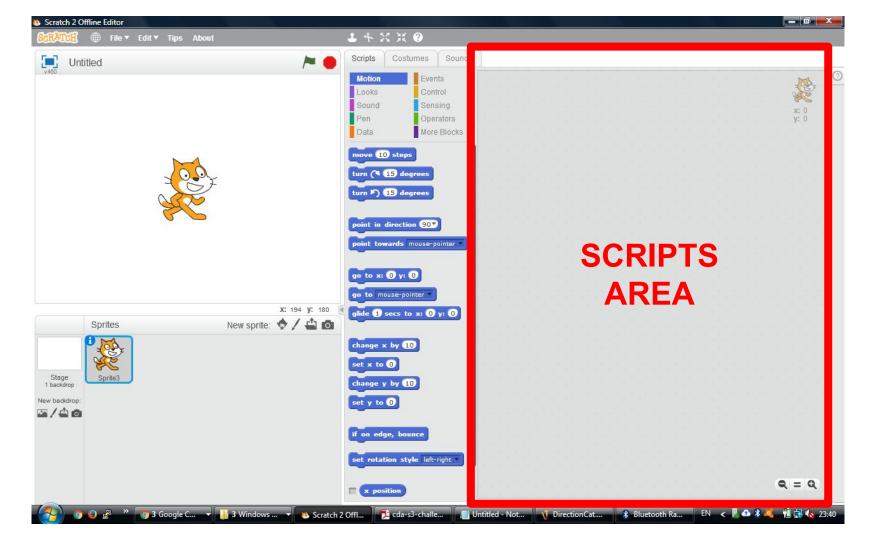
Setting up Scratch

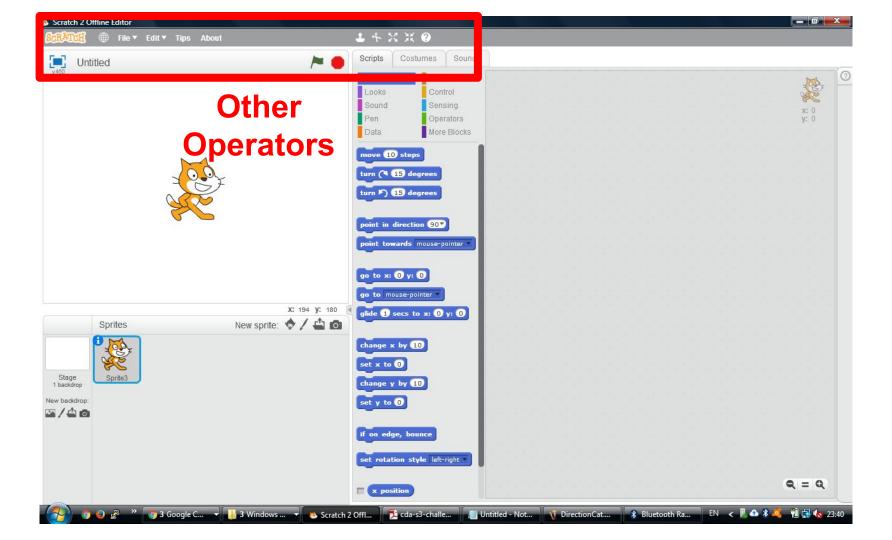
- Make a folder on your computer
- Connect to internet
- Create an student account on Scratch
 http://scratch.mit.edu/classes/104222/register/468deaba91424a07bba42961a
 bdfccac
- Login with student account https://scratch.mit.edu/
- Download Scratch offline editor
- Working offline
- Projects











Basic Blocks explored

turn (* 15 degrees

Create, run and save!

Learn more about

- Motion
- Looks
- Sound
- Pen



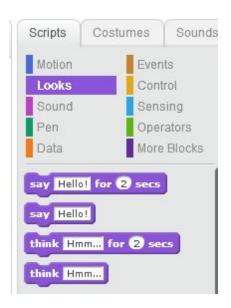






Motion basics!

- Scripts Sounds Costumes Events Motion Looks Control Sound Sensing Pen Operators More Blocks Data move 10 steps turn (15 degrees turn 🖍 15 degrees
- Related to movement of sprite
- They deal with
 - Position
 - Directions



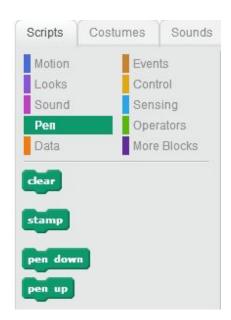
Looks!

- Appearance of sprite and stage
- Can apply graphic effects too
- Try out Say and Think block!

Sound!



- Playing various sounds or notes
- Add new tune from library
- Change volume
- Record and have fun!



Pen!

- Draw line according to sprites movement
- Turning on and off
- Stamping sprite
- Adjusting its appearance

My first project!

- Make the cat move in such a way that it:
 - Moves 10, 50 and 100 steps and says (say and play sound) "Meow" after every set of steps steps
 - Makes a square
 - Makes a pentagon
 - Makes a hexagon
 - Makes a heptagon
 - Makes an octagon change color of pen for each side
 - Makes a nonagon
 - Makes a Decagon change thinkness for each side!
- Challenge :
 - Draw a Star to be one!!

Don't forget to save!

Questions feedback

- We learnt:
 - What's programming
 - Setting up Scratch
 - Exploring scratch work area
 - Create, run and save your own first project using basic blocks!
- Did you enjoy?
- What was best part?
- Can you think of something you can make with these new blocks?