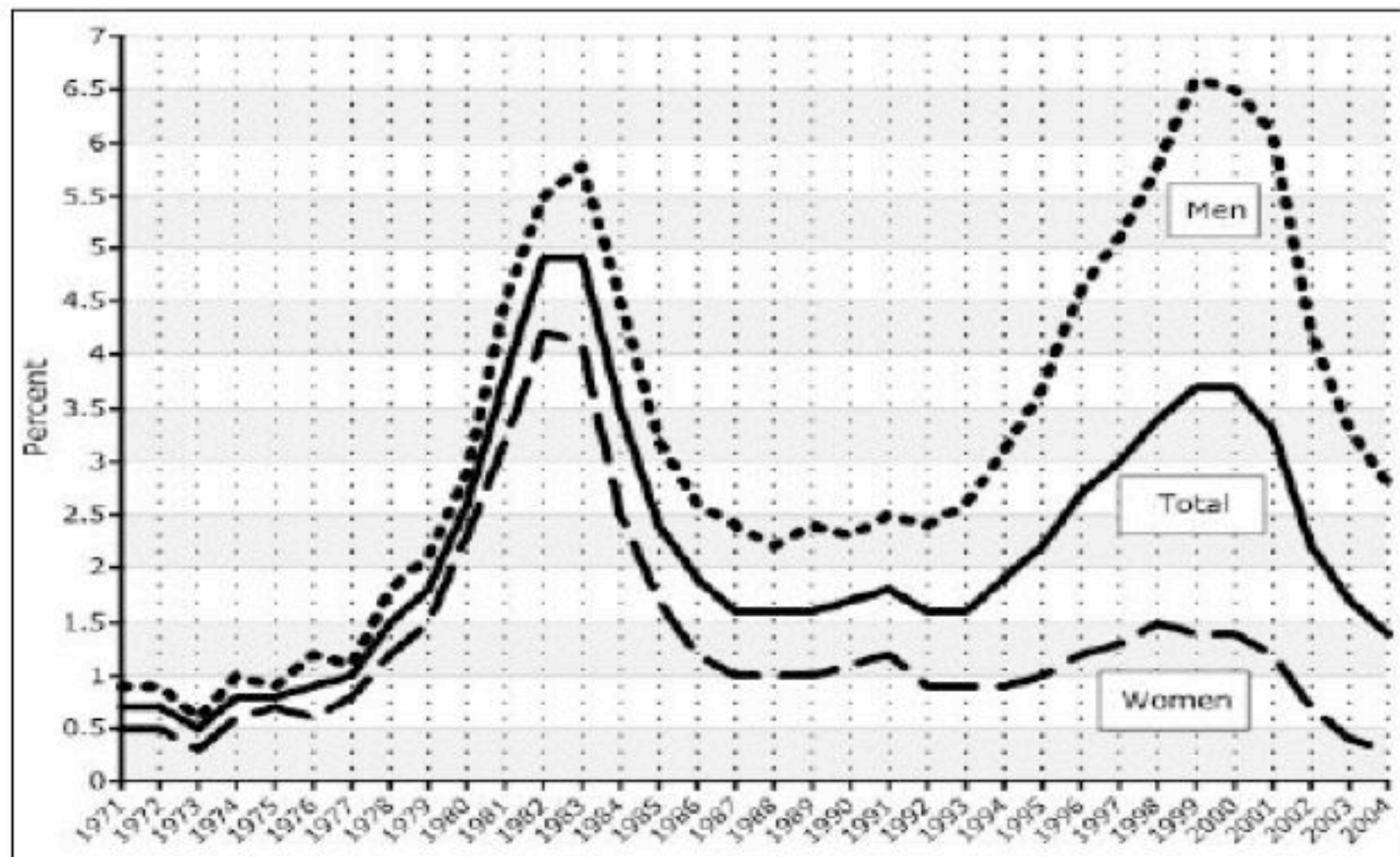


# Creative Computing

Cultivating Computational Thinking and  
Computational Creativity in the Classroom

**A CS4HS Workshop**  
Organized by MIT Media Lab  
With support from Google





SCRATCH



File Edit Share Help



Motion

Control

Looks

Sensing

Sound

Operators

Pen

Variables



voice balloon

x: 0 y: 90 direction: 90

Scripts

Costumes

Sounds

switch to costume costume1

next costume

costume #

say Hello! for 2 secs

say Hello!

think Hmm... for 2 secs

think Hmm...

change color effect by 25

set color effect to 0

clear graphic effects

change size by 10

set size to 100 %

size

show

hide

go to front

go back 1 layers

when clicked

set ghost effect to 100

go to x: 0 y: 90

wait 1 secs

say Hey Stu

wait 0.3 secs

play sound hey stu

wait 1 secs

say Isn't it great having an older sister who is always helping us?

wait 0.5 secs

go to x: -95 y: 65

think Someone should write a song about that...

play sound write a song until done

wait 0.5 secs

think

broadcast slide show

when I receive slide show

wait 34 secs

go to x: 100 y: 15

say Help Me Rhonda, Help Help Me Rhonda for 2 secs

wait 1 secs

go to x: 45 y: 40

say Help Me Rhonda, Help Help Me Rhonda for 3 secs

wait 1 secs

go to x: 0 y: 90

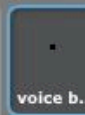
say Help Me Rhonda for 1 secs

Rhonda birthday



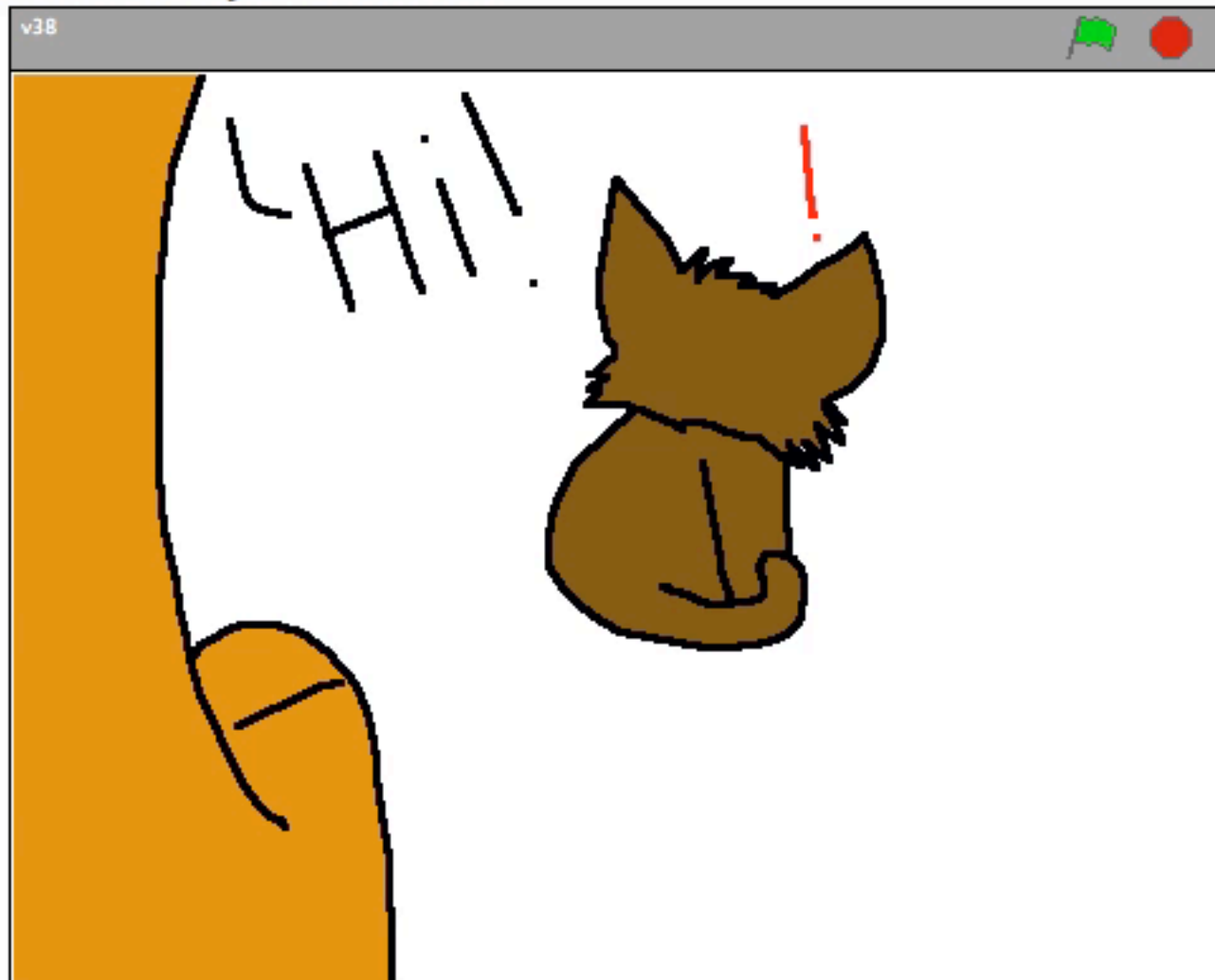
x: 259 y: -410

New sprite:



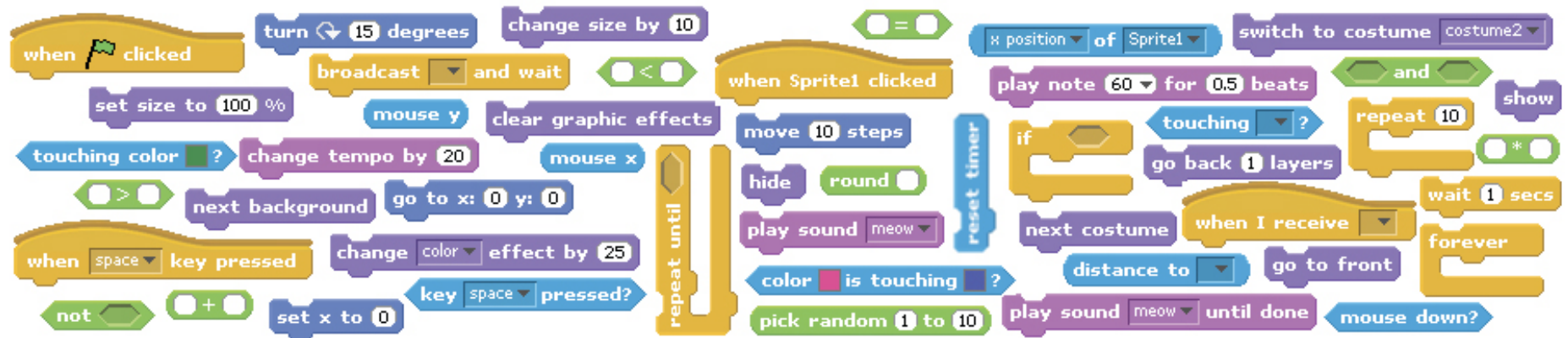
Stage

## mothers day anamation



# Rapa Nui!

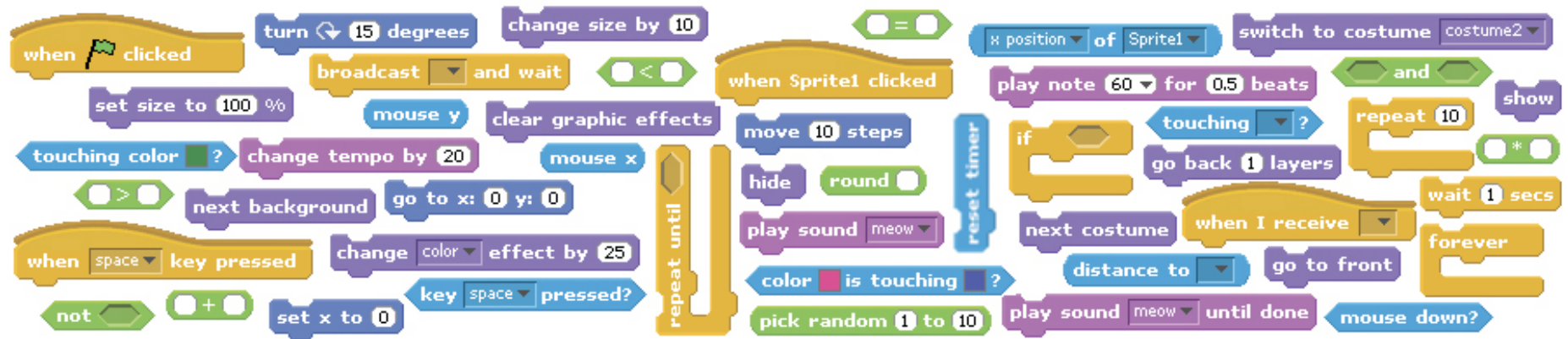
**Start**



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# Creative Computing

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# Computational Concepts

sequence

loops

parallelism

events

conditionals

operators

variables

lists



# Computational Practices

incremental / iterative

testing / debugging

reuse / remix

abstraction / modularization

## Learning through...

design

interests

collaboration

reflection