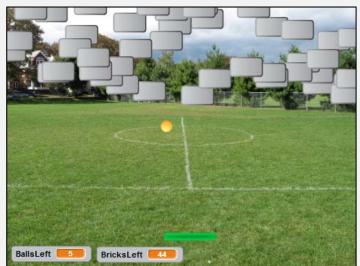
A Breakout Game Created in Scratch

http://cs.oregonstate.edu/~mjb/scratch

Mike Bailey

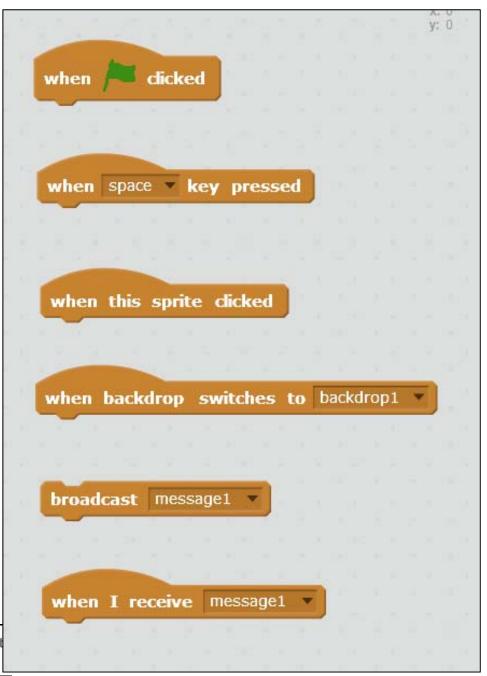
mjb@cs.oregonstate.edu

Oregon State University











Oregon State Universit Computer Graphics

Data





Control 4

```
wait 1 secs
repeat (10)
                  when I start as a done
forever
                  create clone of myself v
         then
                   delete this clone
         then
else
wait until
repeat until
```

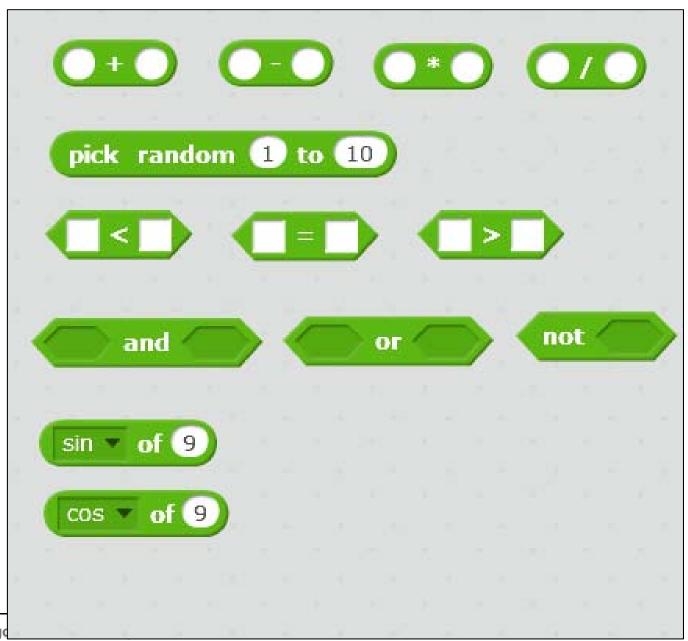


```
touching mouse-pointer ?
touching edge ?
touching color
distance to mouse-pointer
key space v pressed?
mouse down?
            mouse y
mouse x
x position v of Sprite1 v
y position ▼ of Sprite1 ▼
direction ▼ of Sprite1
size ▼ of Sprite1 ▼
```



5

Operators





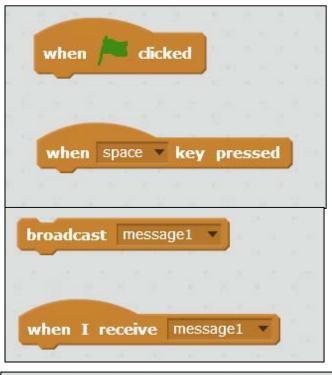
Computer Graphics

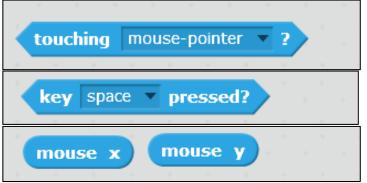
Motion

```
move 10 steps
                      turn 🖄 15 degrees
turn (15) degrees
point in direction 90 🔻
point towards mouse-pointer
go to mouse-pointer
go to random position
change x by 10
                       change y by 10
                set y to 0
set x to 0
if on edge, bounce
```

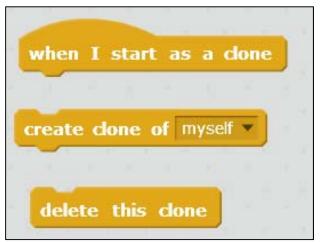


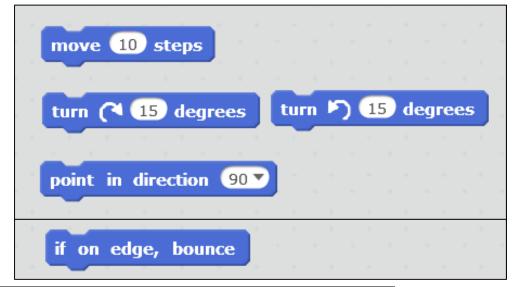
Oregon State Univers Computer Graphics





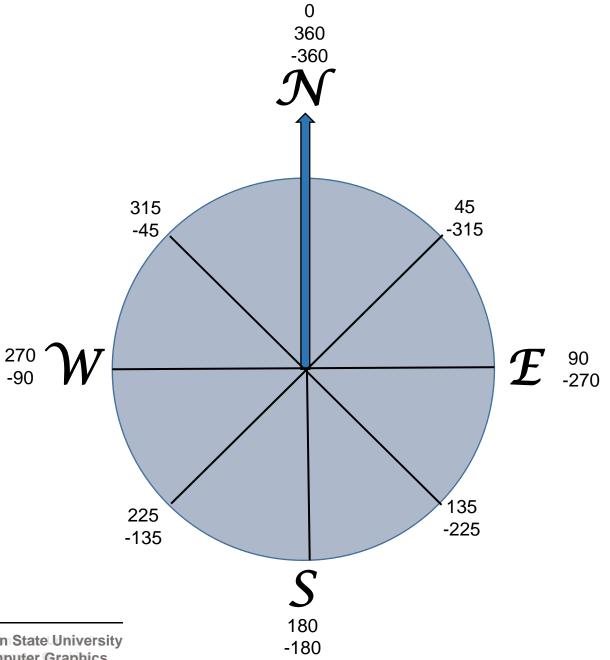






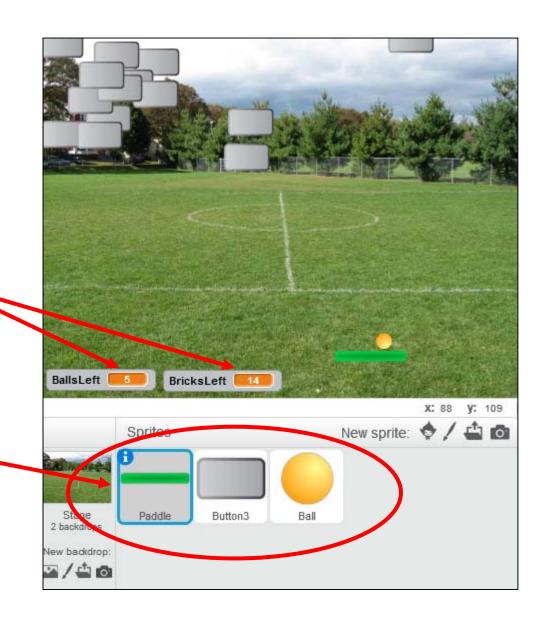


Scratch Handles the Directions you are Going Like a Compass Does





Three Actors

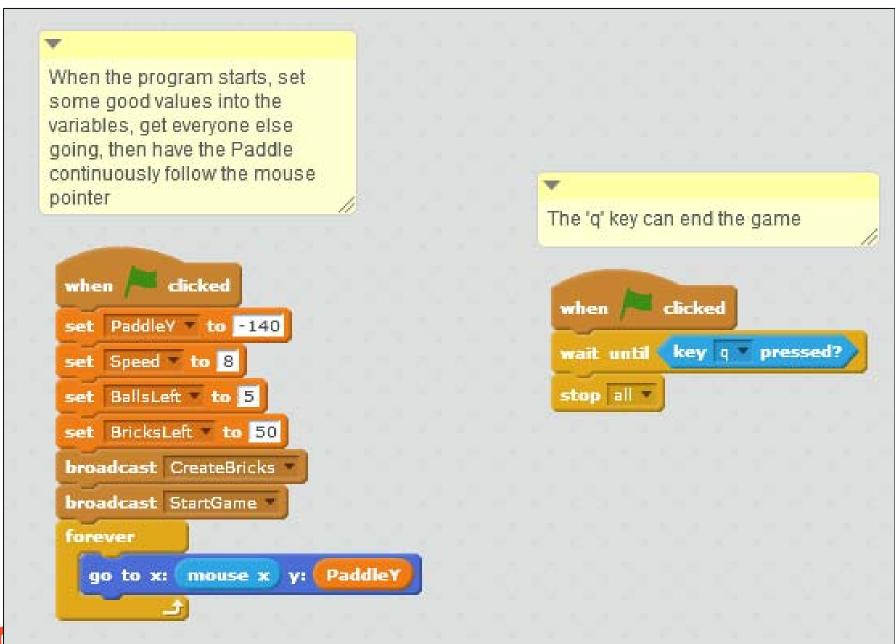


Displaying Data Variables

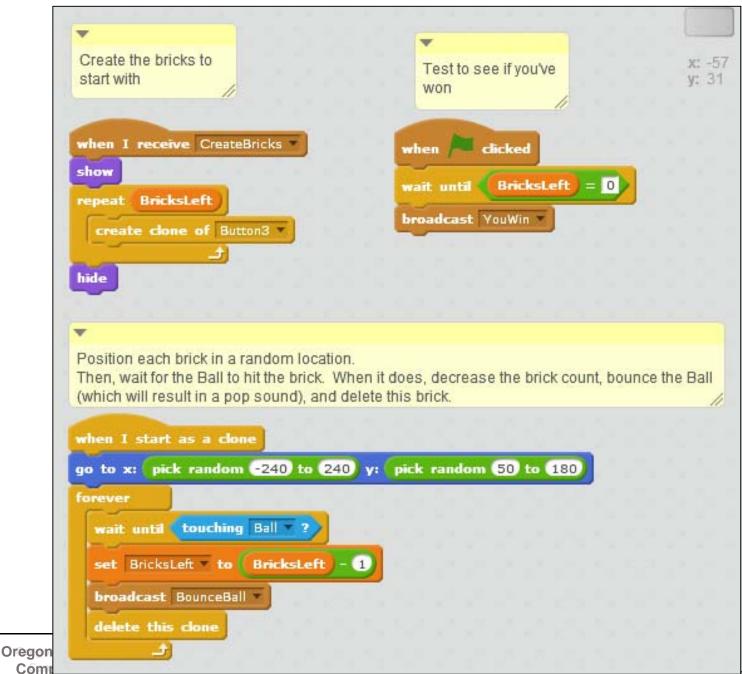
Three Actors



Paddle



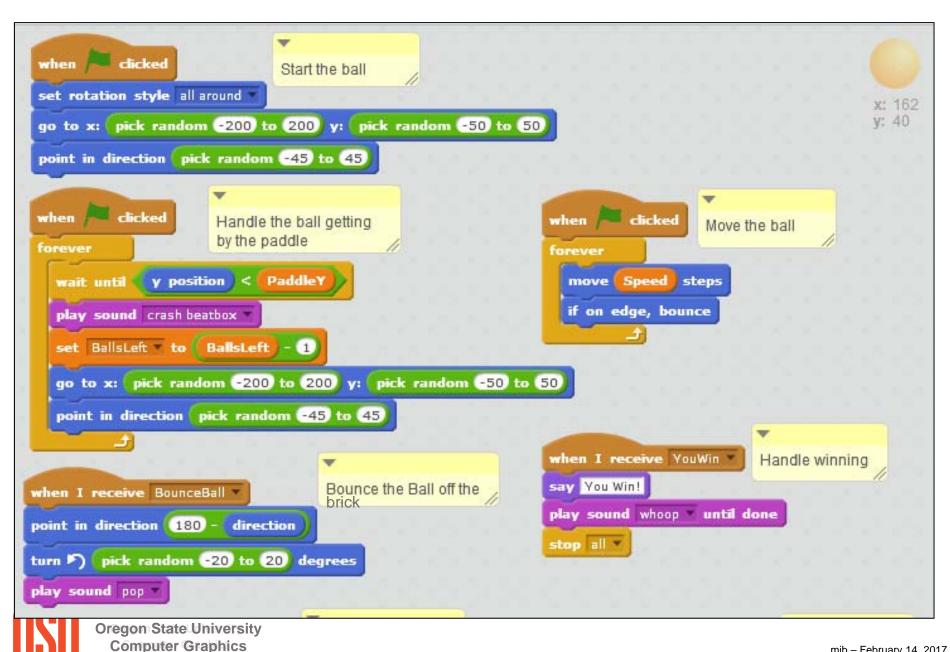
Bricks





-hjb – February 14, 2017

Ball -- top



Ball -- bottom

