CoderDojo Athenry "Above all, be cool"



Every week:

✓ Sign in at the door

If you are new:

- ✓ Fill in Registration Form
- ✓ Ask a Mentor how to get started

Make sure you are on the Athenry Parents/Kids Google Group: email coderdojoathenry@gmail.com

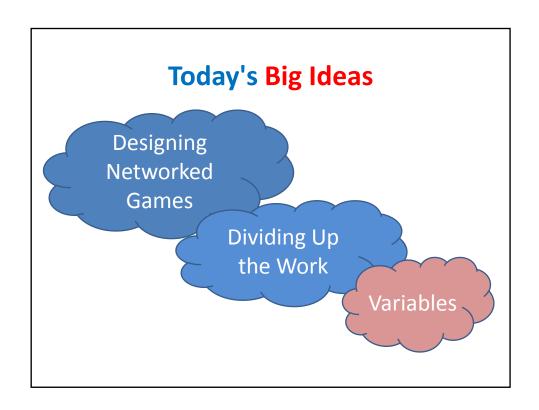
CoderDojo Athenry

Scratch Intermediate



Code and notes by Michael Madden & Oliver Thompson, 2013





Design of Pong: Your Two-Player Networked Game

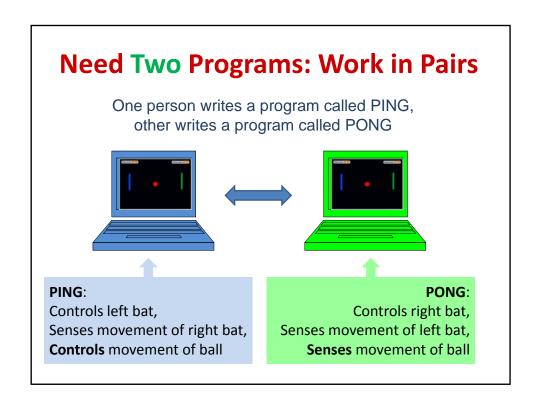
Classic game of Ping Pong.

One computer controls the left bat, the other controls the right bat.





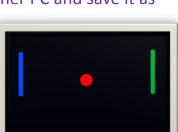
Both Computers see the same the bats and ball in the same place, through information passed across the network.



Step 1: Create Stage and Sprites For PING & PONG Together

So that PING and PONG programs will look same as each other:
Do this together on 1 PC,
Save it as PING,

Copy to other PC and save it as PONG.



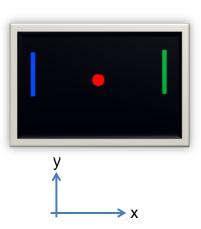


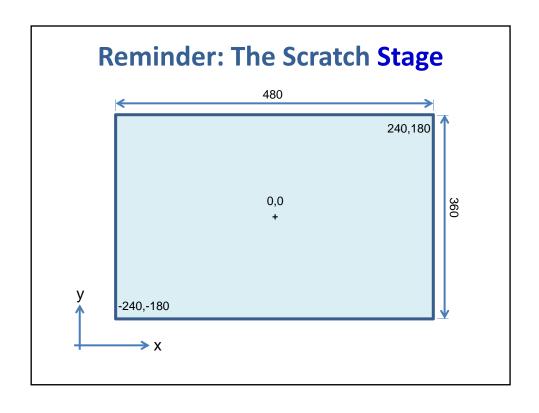
Step 2: Make The Bats Move

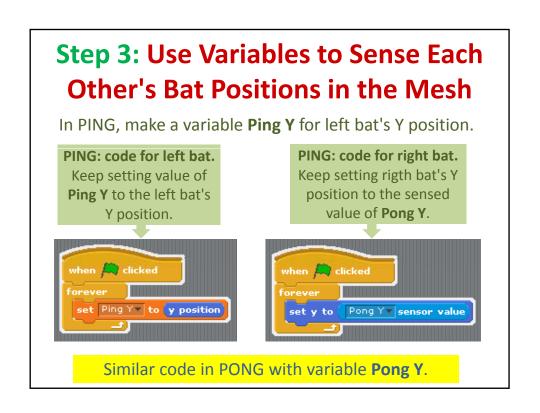
Decide: will you use the up/down arrows or the mouse?

In both PING and PONG, write some code to move your own bat.

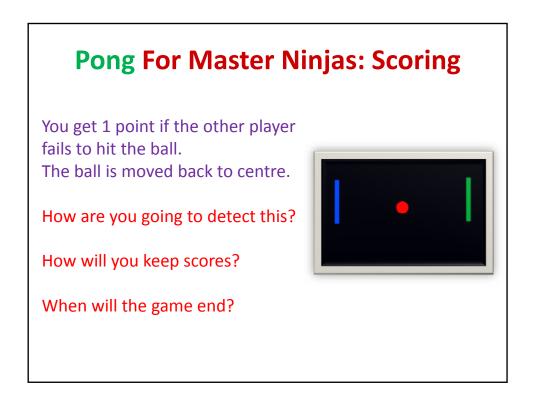
We have done this in other games, except this time you **only** change the Y positions, the X positions are **fixed**.







Step 4: Get the Ball Rolling ... PING will control the ball, PONG will just track its position PING: code for ball. point in direction 90 This is one way to do it. There are other ways! move 5 steps if on edge, bounce This is incomplete: touching Left▼ ? need code for touching point in direction 90▼ Right bat also. turn 🗘 pick random -20 to 20 degre PONG: How are you going to track the ball's position? What idea can we re-use? Note: needs code in both PING and PONG.



Next Steps ...

Design your own networked 2-player game!

Modify Pong...

Pick one of your old games and modify it...

Come up with a completely new one!

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