



Code and Notes by Martha Fahy, 2020

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





Weekly Reminders



 Fire exit doors/main doorways must be kept clear AT ALL TIMES In the case of an emergency, please proceed in a calm and orderly manner to the nearest Exit and go to your Assembly Point



Do NOT take anything with you If you have a child in another room, do NOT go to them, a Mentor will look after them



 Please leave passageways between desk and keep CLEAR at all times





If power cable goes
 across passageways –
 must be TAPED DOWN
 ask mentor for tape



 ONLY NINJAS need a table - parents, please only use a chair





If FIRST AID is required please alert a Mentor

There are a number of trained first responders on site every week

E2



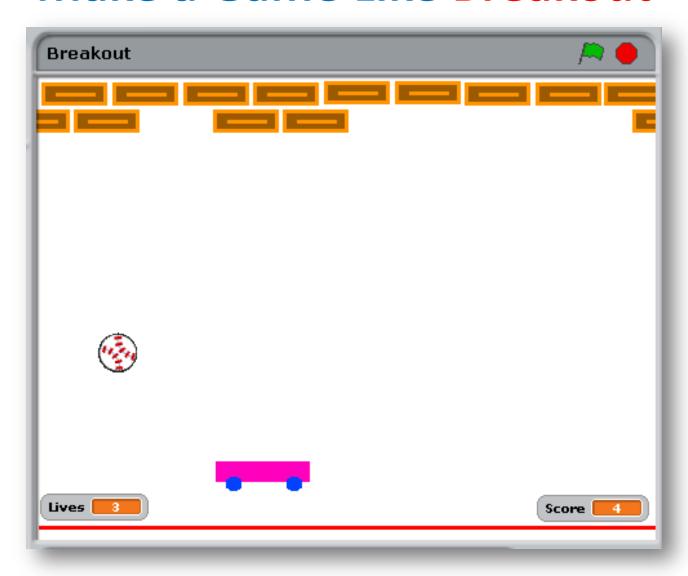
Help us cut down on Single Use Cups



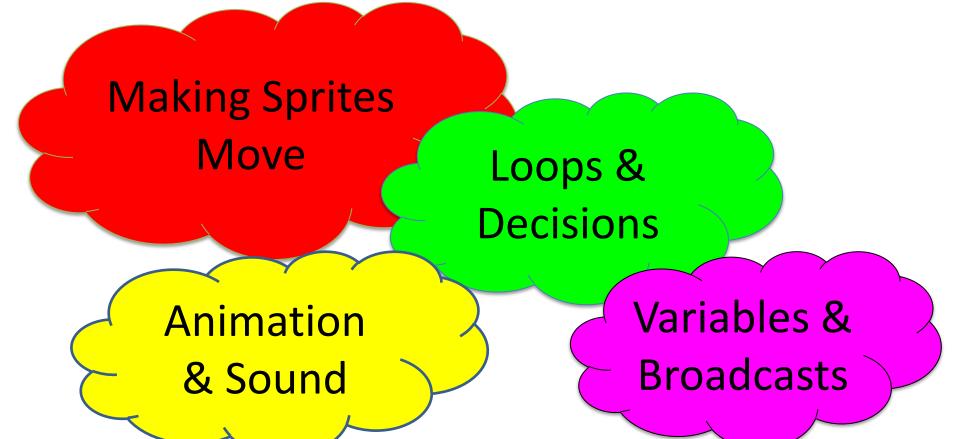
Bring your own cup (must have lid)



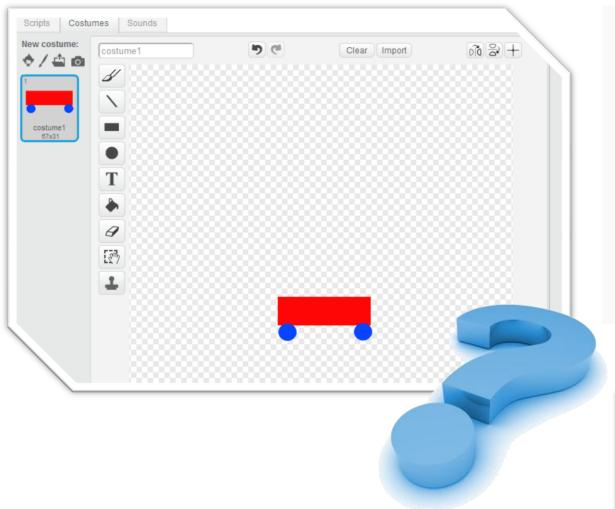
Today's Ninja Challenge: Make a Game Like Breakout

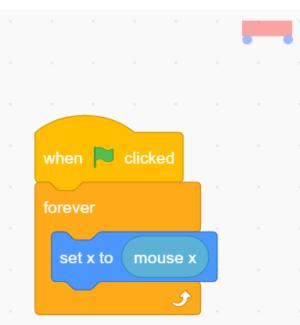


Important concepts we will use today.



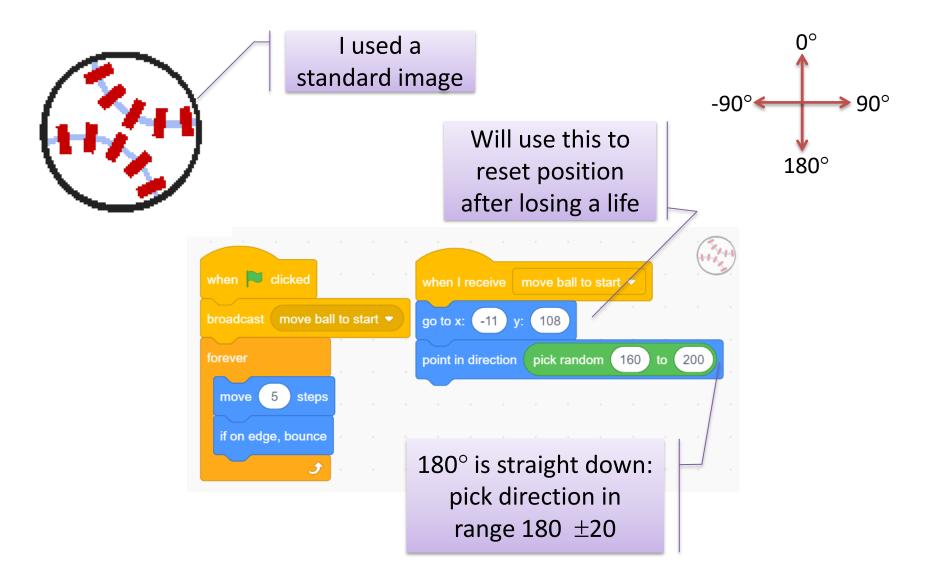
Design the Bat Sprite & Code So You Control it





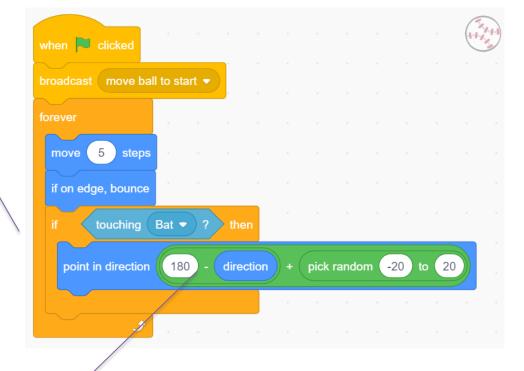
How would you control it with arrows instead?

Make the Ball Sprite & Basic Code to Move it



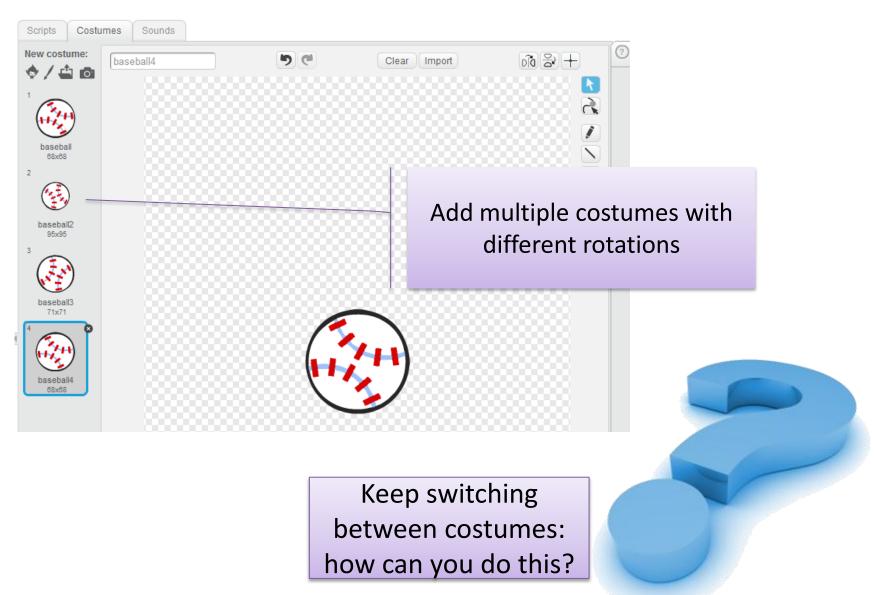
Code for the Ball Sprite to Bounce off the Bat

New block of code to bounce off bat

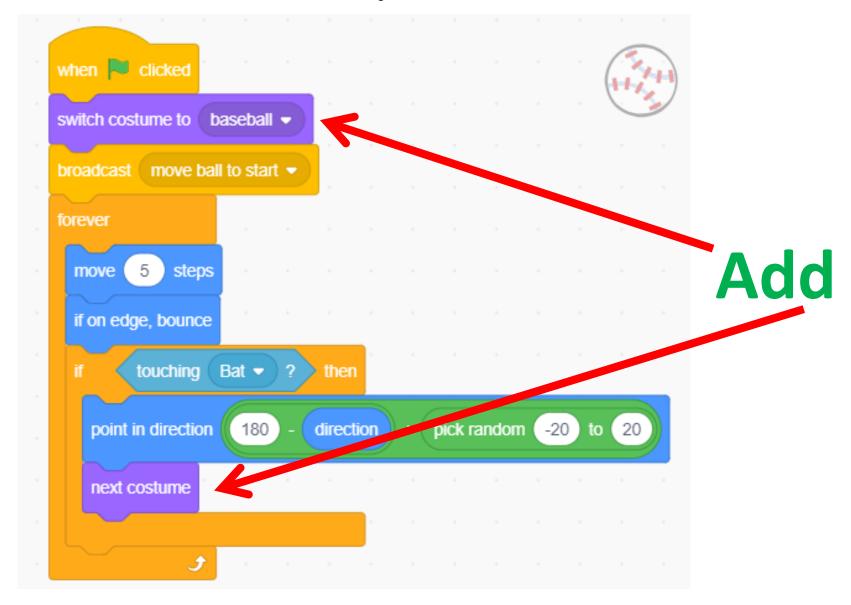


180° – Direction is opposite direction; add some randomness

Animate the Ball

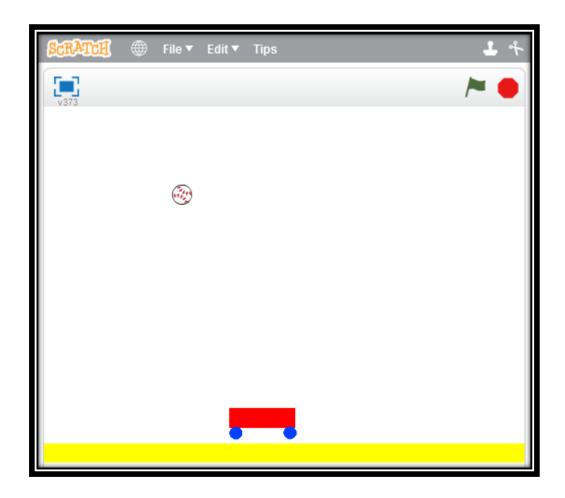


Code to animate the Ball



Add an End Line

End Line: Add Sprite Or Draw on Stage



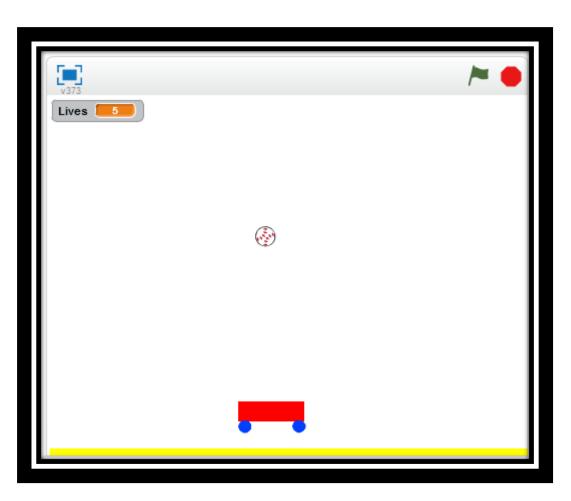
Keep Track of Lives

Variables for Lives

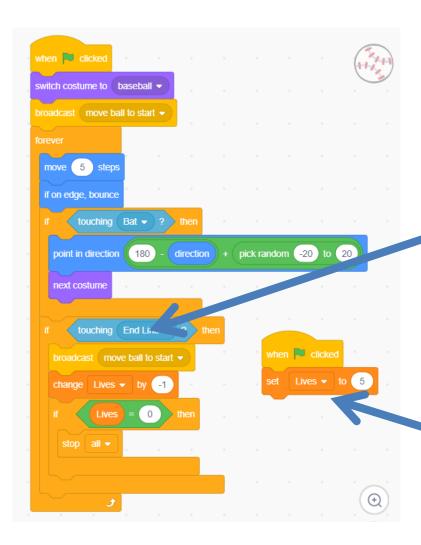
Start with Lives =5Stop if Live = 0

Reduce Lives by 1If Ball touches End Line

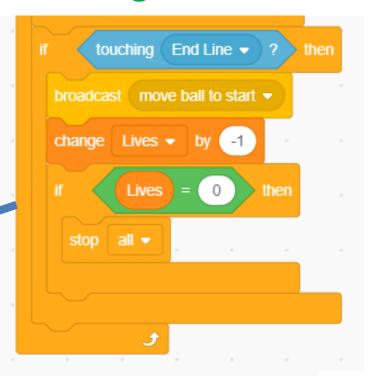
Reset position of ball



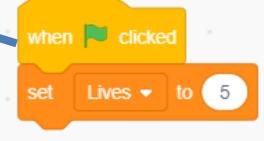
Code



Touching End Line



Setting Lives

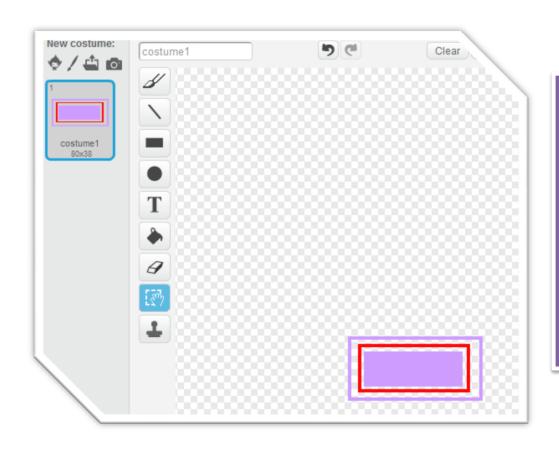


Add a Music Loop





Design & Code a Single Brick

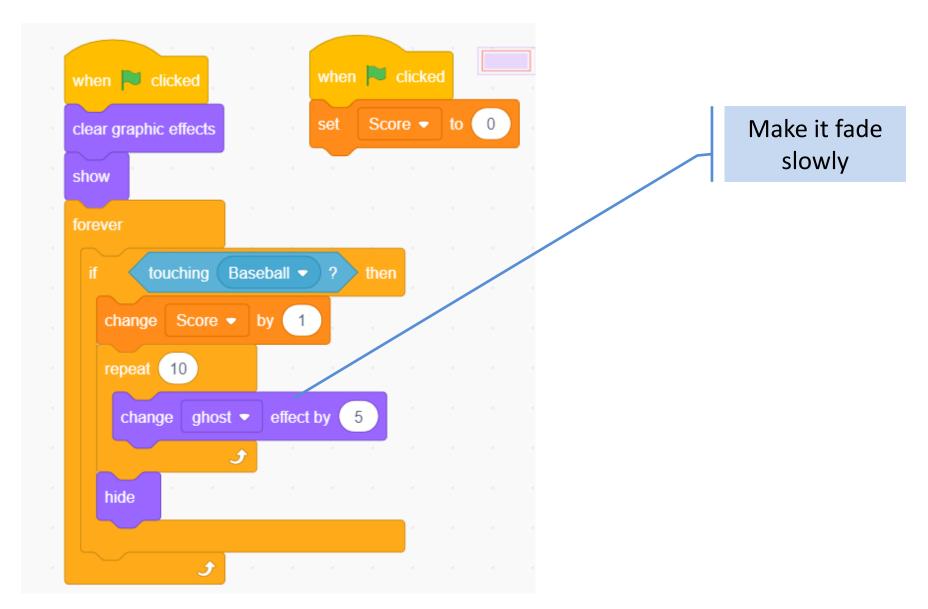


Need a variable for Score

Need code for **Ball** when it receives broadcast:

Make a sound effect,
Bounce off brick (copy
code for bouncing off bat)

Design & Code a Single Brick



Test the Single Brick & Duplicate it When You're Sure it Works

