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



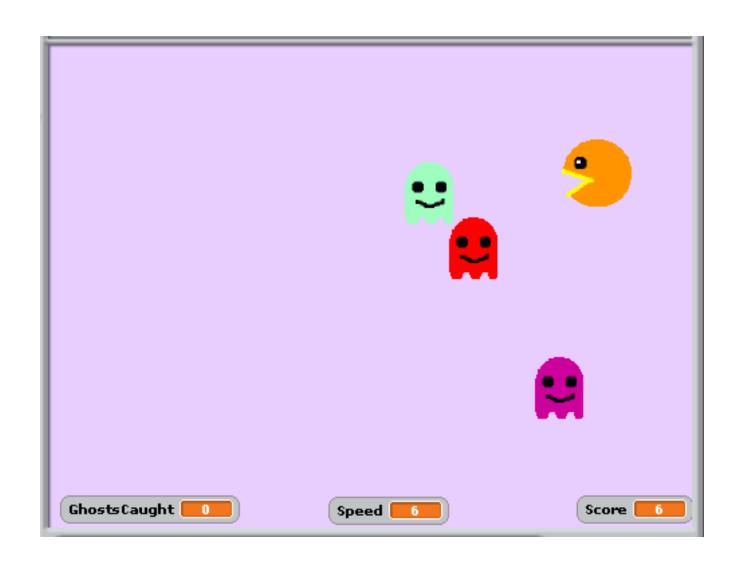
Help us cut down on Single Use Cups



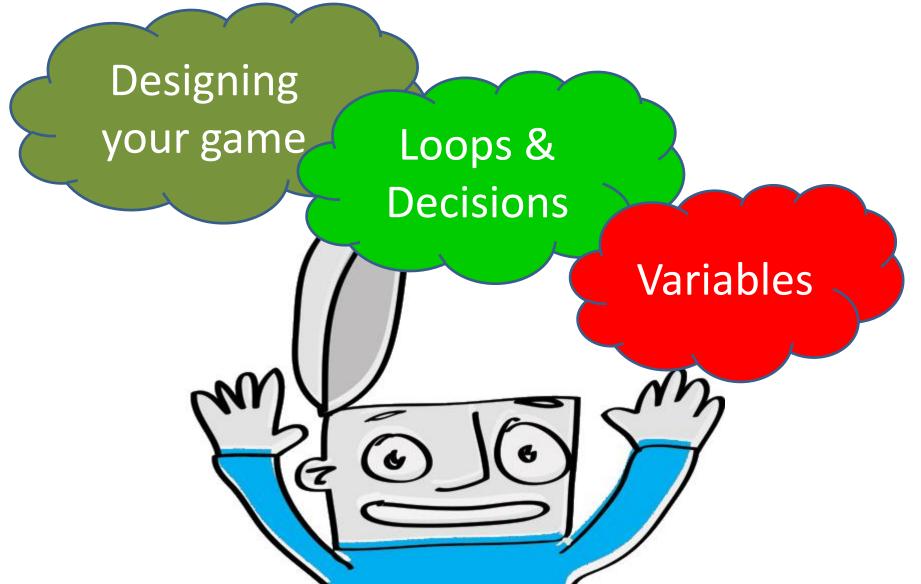
Bring your own cup (must have lid)



Today's Ninja Challenge: Create a GhostBuster Game Like This



Today's Big Ideas



How to Get Started

Plan the Design

- Think first!
- Start simple: add more later

Create First Character

- Design it: appearance & behaviours
- Write script (Code) to control its behaviours

Test It

- Any bugs? (Not working as expected)
- Debug and Improve

Extend It

More Characters, More Behaviours, More Testing!

Steps To Make This Game

Create your **Ghost Catcher**: appearance?

Code to control it with mouse

Change the **Stage**:

Plain coloured background?

Create first **Ghost**: appearance & code

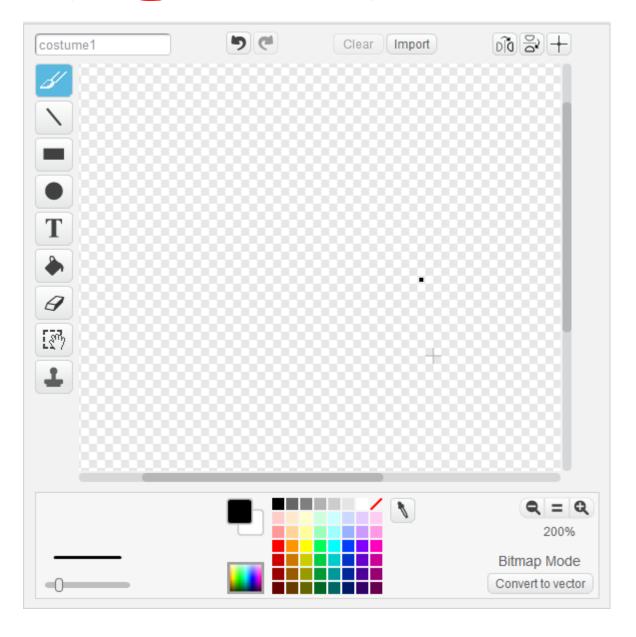
Duplicate it when it is working

Make things happen when a Ghost is caught

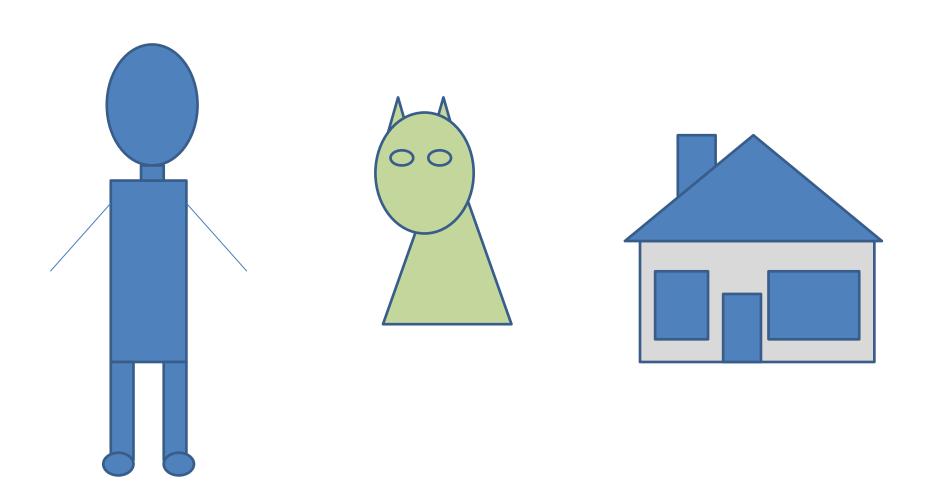
Add variable for Score

Optional: New level when all caught

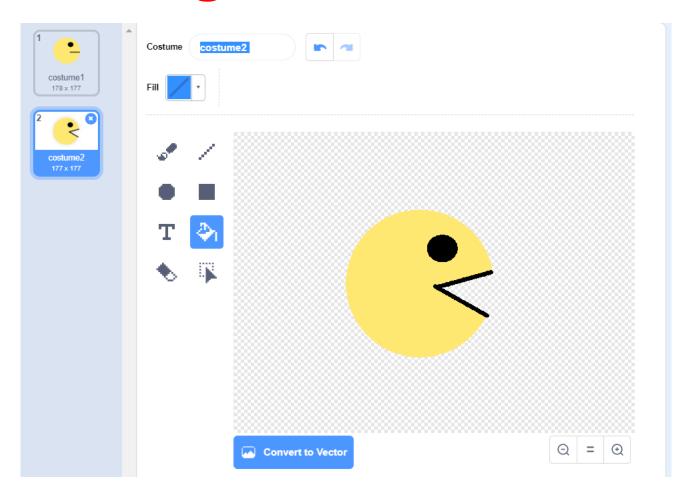
Paint Editor in Scratch



Think in Shapes

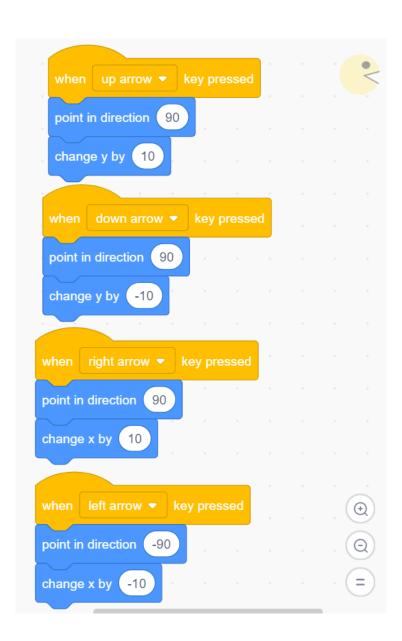


Design PacMan and a Ghost



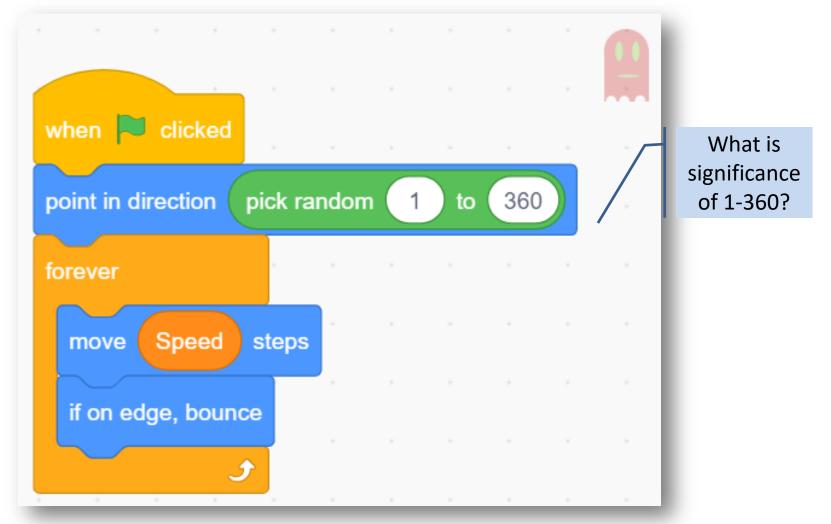
Circles,
Rectangle &
Paintbrush

TIP: Use distinctive colour (e.g. yellow) at front/mouth: will use this when detecting if ghost is eaten



Make PacMan Move using Arrow Keys

Make Ghost Move Around



TIP: Get one ghost working fully – you can duplicate it later. Right-click on a sprite to duplicate it.

Loops and Decisions

Key programming concepts

Loop:

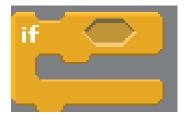
Repeat code multiple times





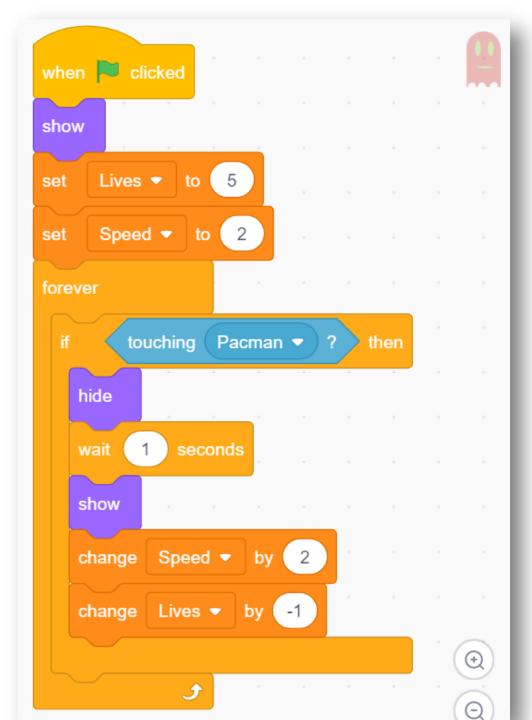
Decision:

Decide whether or not to do something









When PacMan Gets caught by Ghost ...

Duplicate Ghost, Make Each One Look Different

