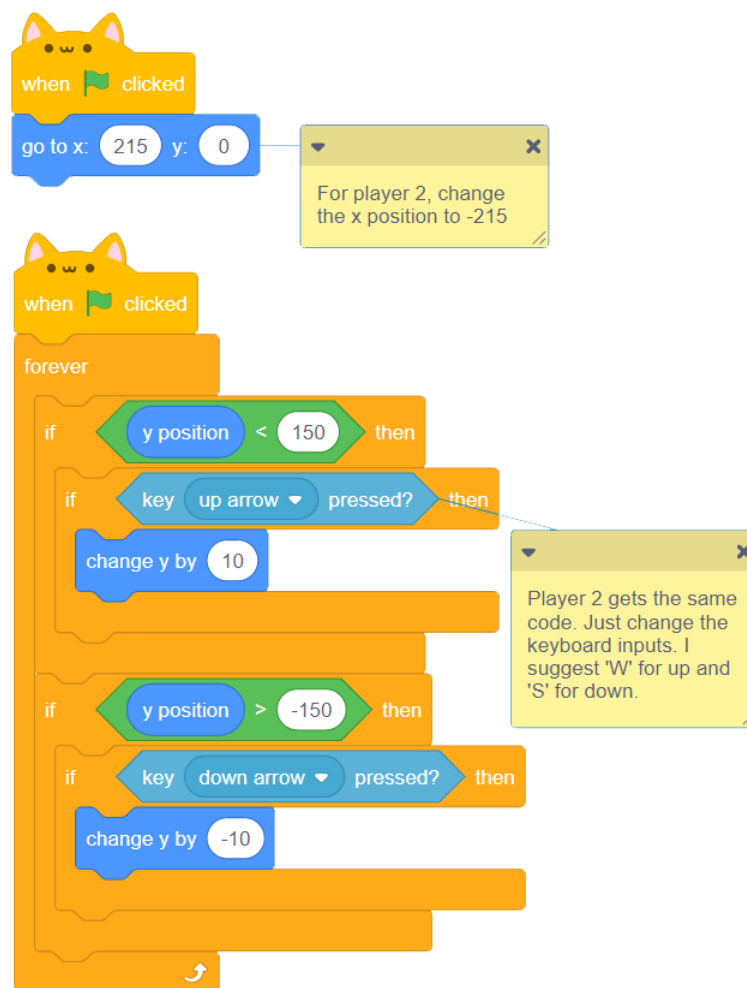


# PONG!

In today's lesson, we're going to remake the granddaddy of video games, Pong. Created way back in 1972 by Atari, this simple block-based video game was the template that inspired thousands of arcade games that came after. New coding concepts introduced in this lesson include how to make custom blocks -- a handy technique for organizing your code so it makes more sense to others.

## CODE FOR PADDLES



# CODE FOR BALL

```

when clicked
  set p1score to 0
  set p2score to 0

when I receive start round
  go to x: 0 y: 0
  wait 1 seconds
  Set Ball Direction
  forever
    move 13 steps
    if on edge, bounce
    Collision detection
    check if game over
  
```

```

define Set Ball Direction
  set start direction to pick random 1 to 4
  if start direction = 1 then
    point in direction 45
  if start direction = 2 then
    point in direction 135
  if start direction = 3 then
    point in direction -45
  if start direction = 4 then
    point in direction -135
  
```

```

define check if game over
  if p1score = 5 then
    broadcast P1 wins
    stop other scripts in sprite
  if p2score = 5 then
    broadcast P2 wins!
    stop other scripts in sprite
  
```

```

define Collision detection
  if touching Player 1 ? then
    start sound Suction Cup
    point towards Player 1
    turn 180 degrees
  if touching Player 2 ? then
    start sound Suction Cup
    point towards Player 2
    turn 180 degrees
  if touching left line ? then
    start sound Buzz Whir
    change p2score by 1
    go to x: 0 y: 0
    broadcast start round
  if touching right line ? then
    start sound Buzz Whir
    change p1score by 1
    go to x: 0 y: 0
    broadcast start round
  
```

## CODE FOR CAT

