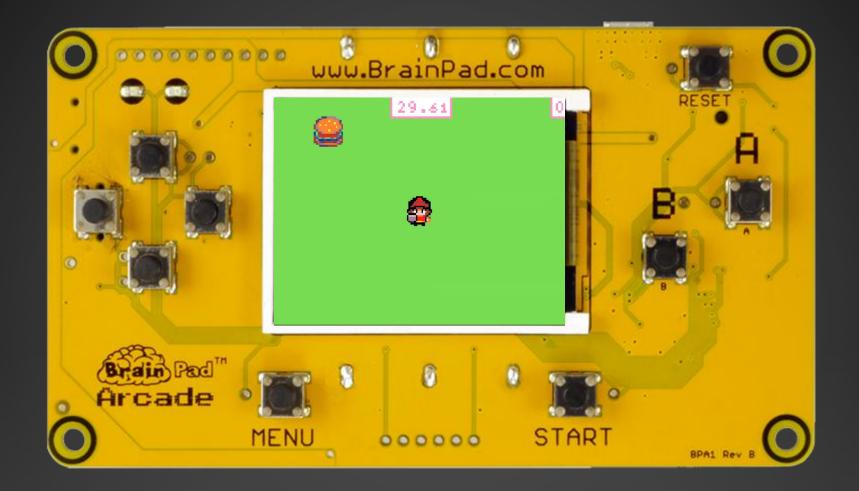
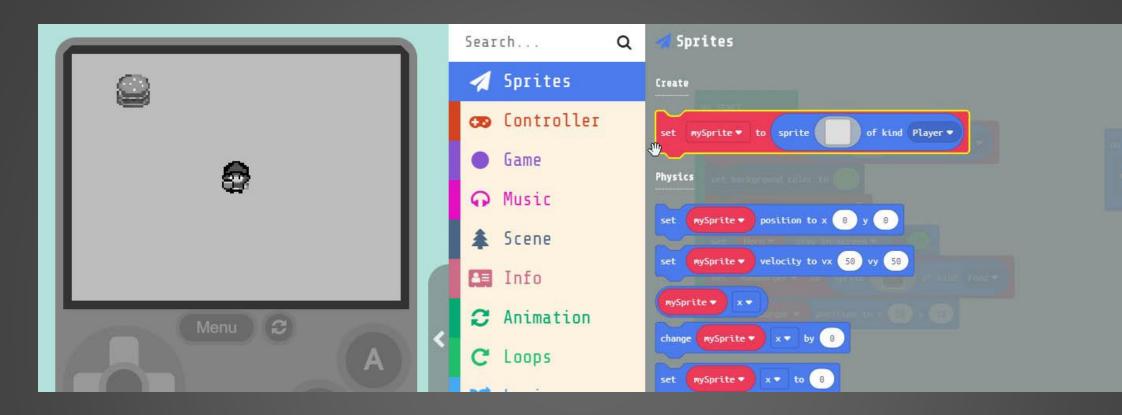
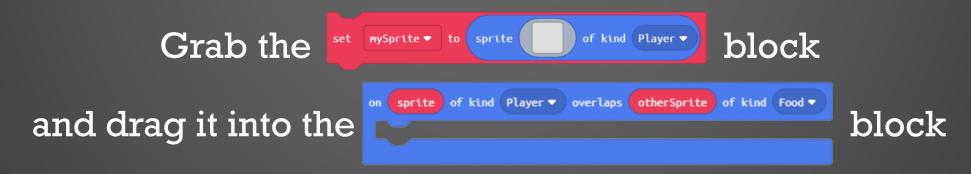


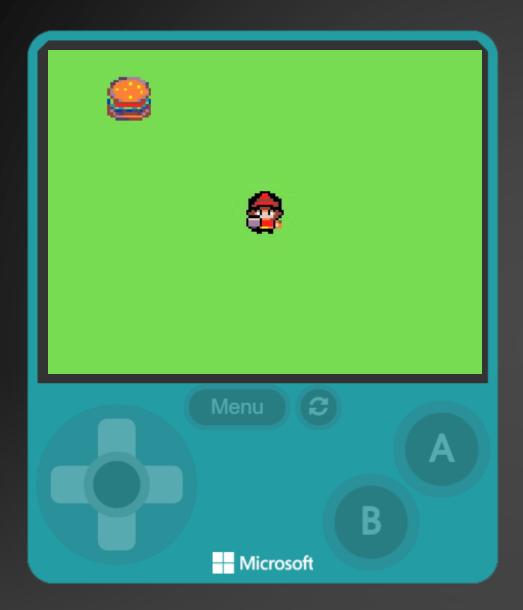
## 2-D ADVENTURE – EPISODE 02



### Let's create a 2-D Adventure game.



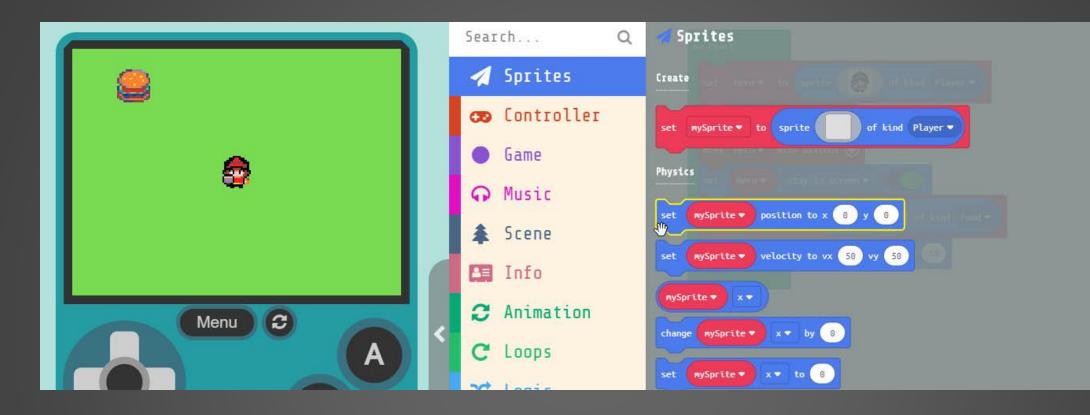




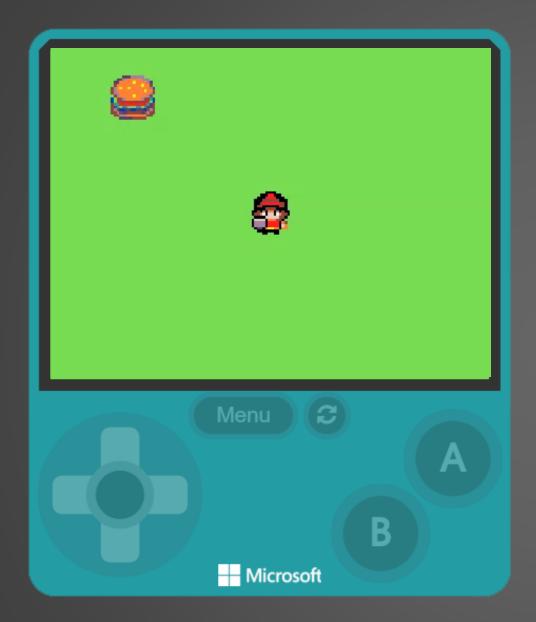


Change the name to 'Hamburger' and the kind to 'Food' This is just like the one in the 'on start' block. Now when we get the 'Hamburger'

a new one will appear.



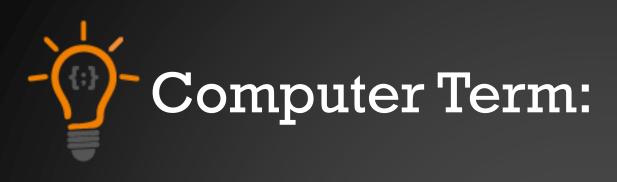






After we add the new block, change the variable name to 'Hamburger'.

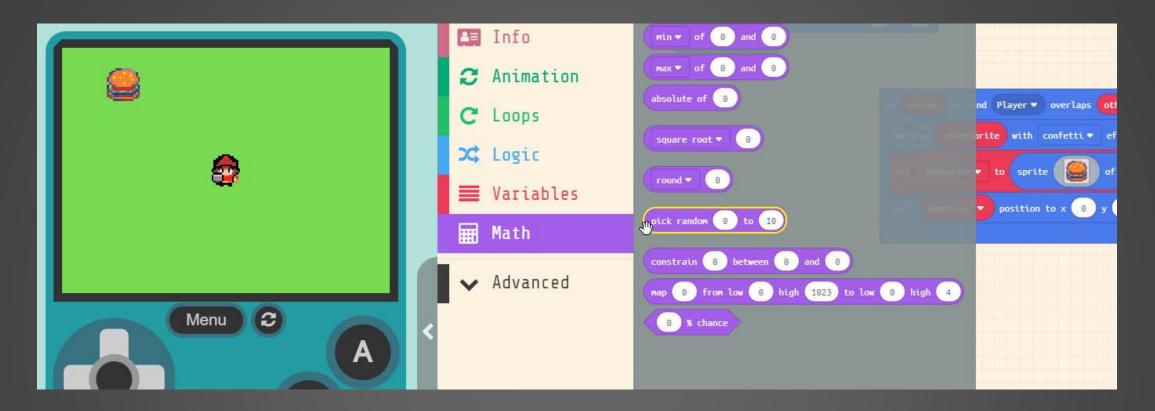
But it's still not quite right. We need to generate a random position



# RANDOM NUMBERS

Computers need something to help them generate truly random numbers. A 'seed' value is used to help, otherwise a computer just generates numbers that appear random. MakeCode takes care of all behind the scenes, so we don't have to worry.

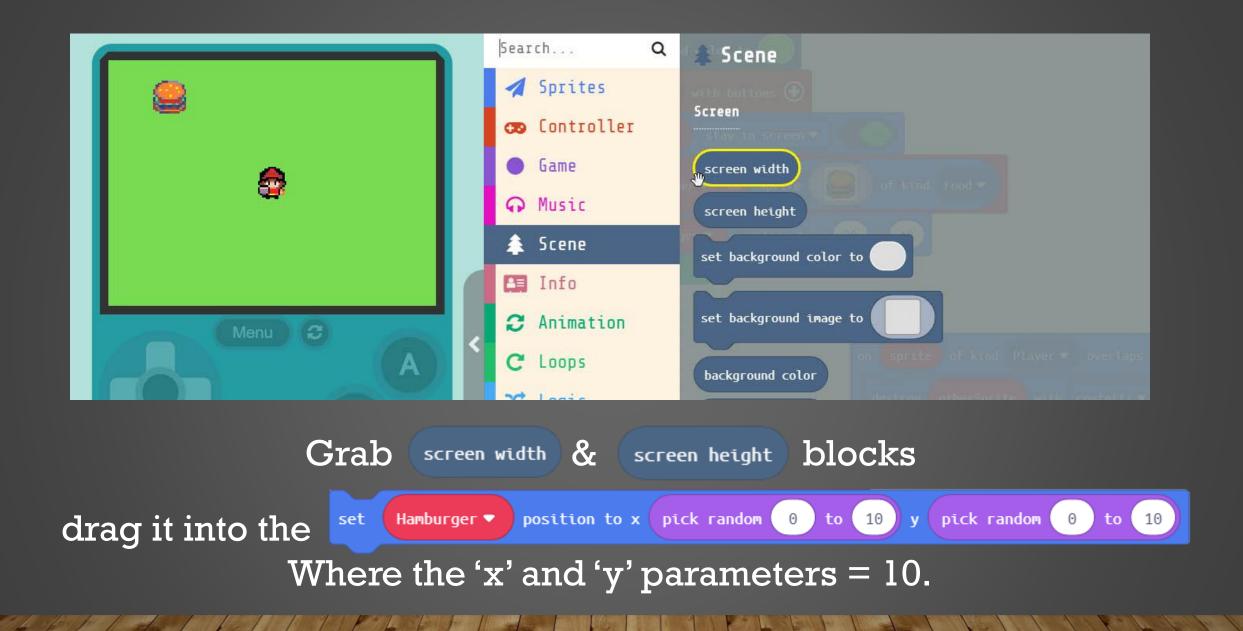


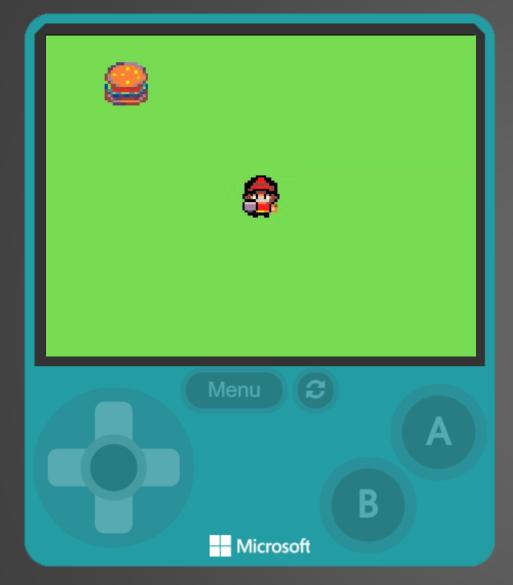


## Grab 2 of the pick randon (a) to 10 blocks drag both into the set Hamburger V position to x (a) y (b) block Inside the 'x' and 'y' parameter.

The x & y parameters represents pixels on the screen

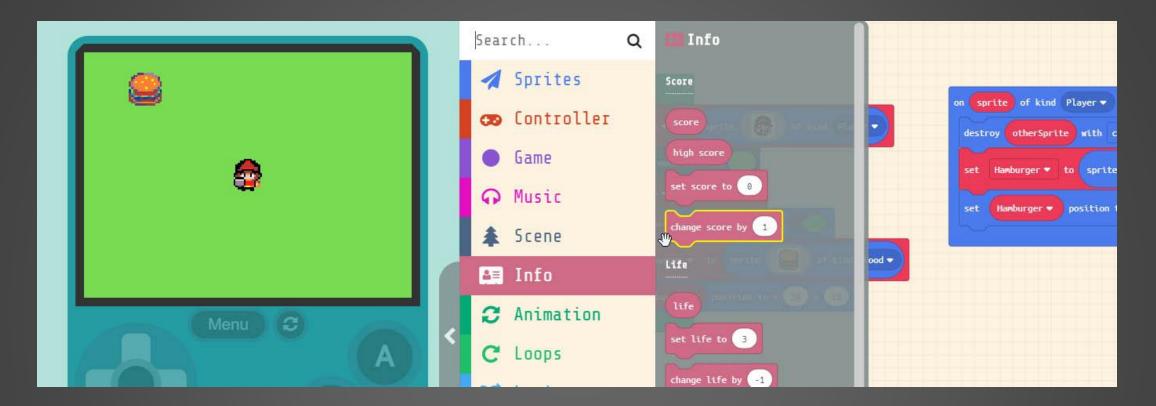


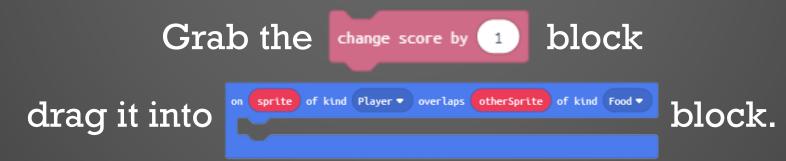






Now when we grab the 'Hamburger' the code inside our overlap event, creates a new 'Hamburger' and places the new one in a random location on the screen.



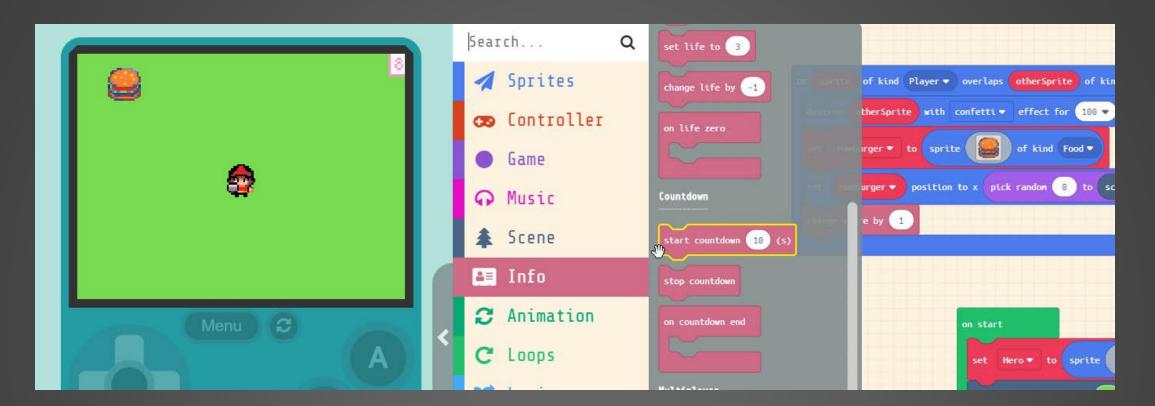


8	
<b>a</b>	
Menu 2	
B Microsoft	

on sprite of kind Player  overlaps otherSprite of kind Food
destroy otherSprite with confetti - effect for 100 - ms \ominus
set Hamburger  to sprite of kind Food
set Hamburger → position to x pick random 0 to screen width y pick random 0 to screen height
change score by 1

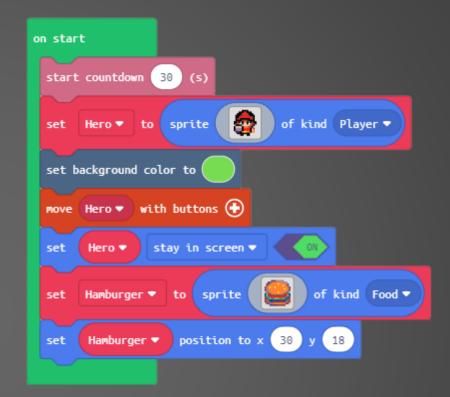
Now every time we grab a 'Hamburger' we get a point.

Let's add some challenge, by adding a timer to the game.





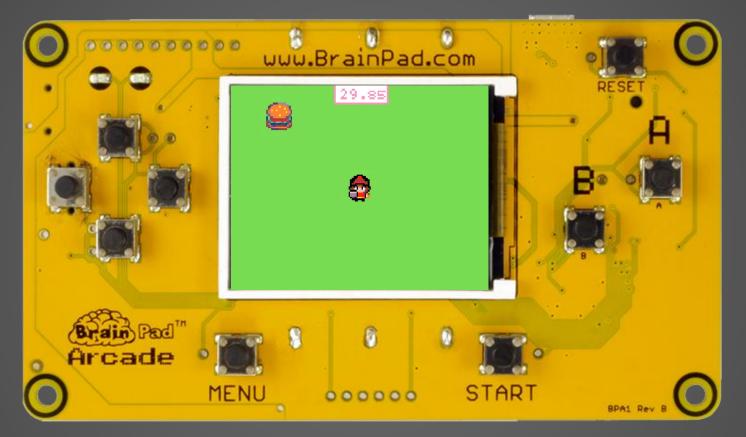
29.85
<b>a</b>
Menu 2 A B
Hicrosoft



Change the parameter to '30' sec.

Now we have a GAME!!!

## Hardware Break



#### Now let's load what we have on to the BrainPad.

# EXTRA CREDIT

1 - 21