

# CoderDojo Athenry

SCRATCH Beginners



Code and notes by Martha Fahy

# Coder Dojo 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

Sign up to the Athenry Parents/Kids  
Google Group email:

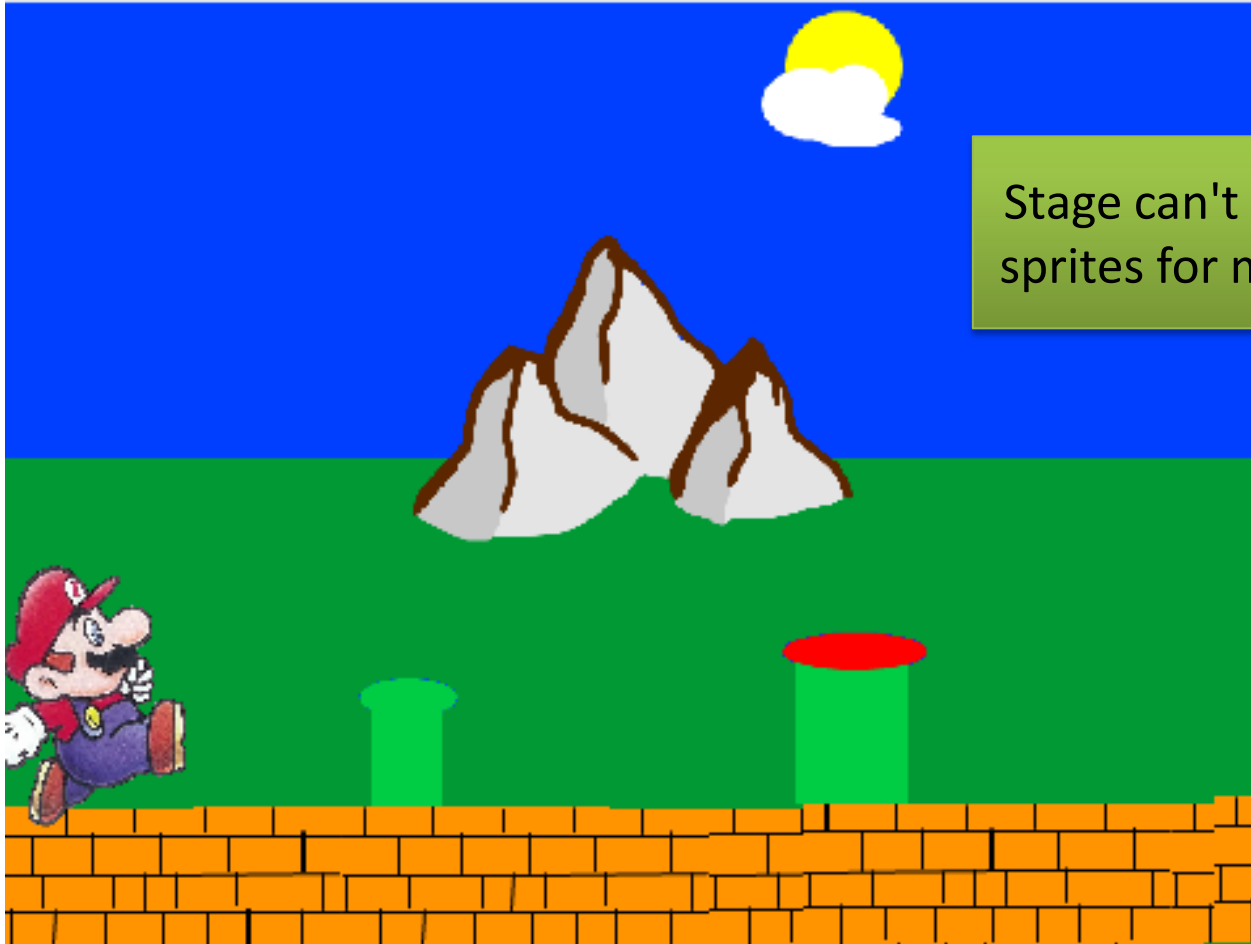
[coderdojoathenry@gmail.com](mailto:coderdojoathenry@gmail.com)

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**CODER DOJO ATHENRY**

Check out our **website** for notes and  
information every week:

<http://cdathenry.wordpress.com>

# Today's Challenge: Scrolling Backgrounds



Stage can't move: need to use sprites for moving background

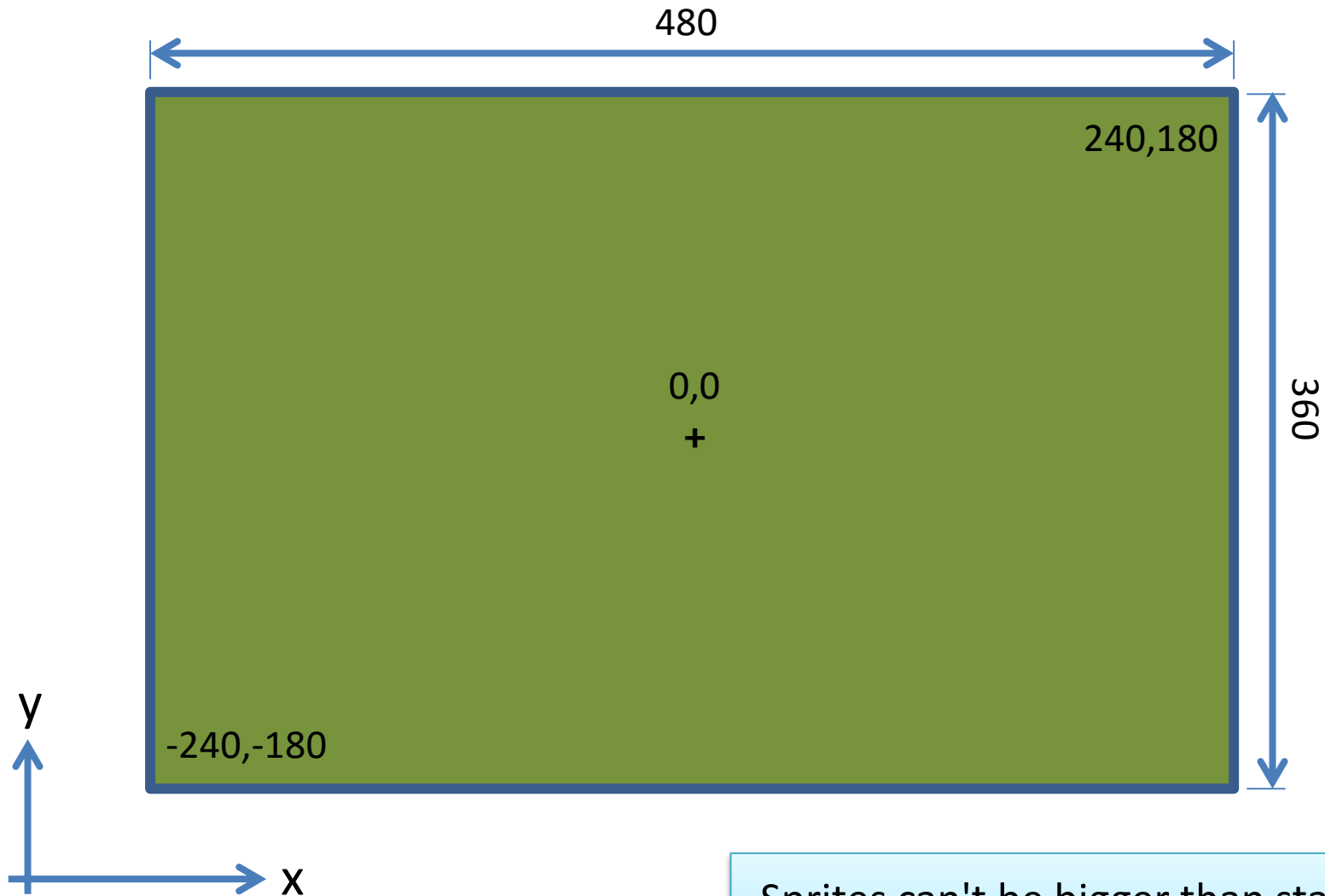
# Lets get our Sprites



**Mario: Search online  
and save as a .png file  
and then import it into  
Scratch**



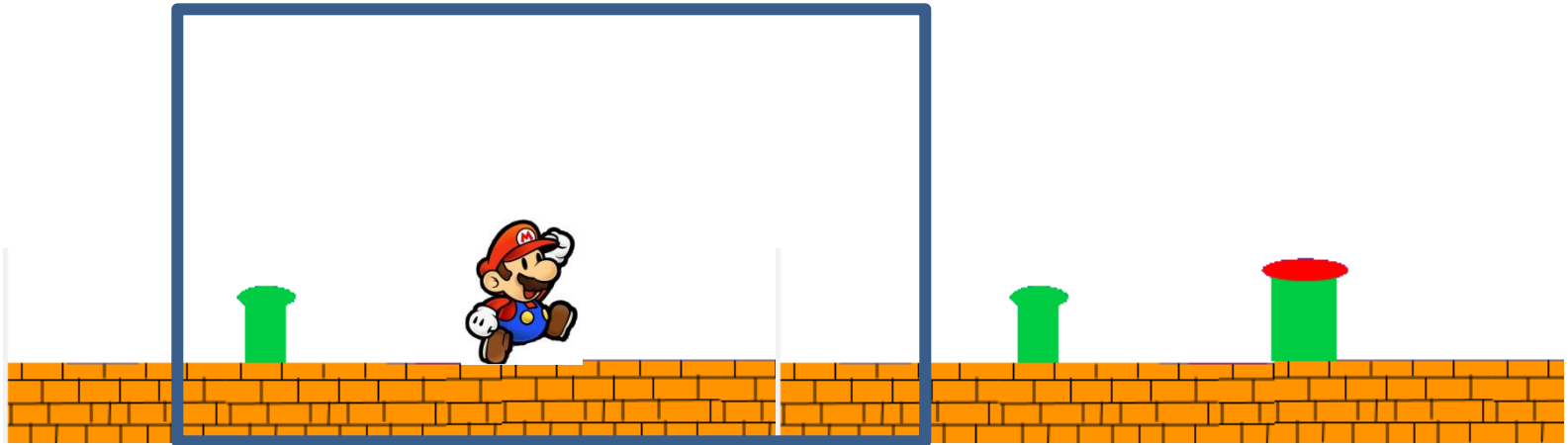
# The Scratch Stage



Sprites can't be bigger than stage:  
max length is 480 also

# To make it look like Mario is moving Right ...

- ← X → +



Don't move Mario,  
Move the ground **Left**

Sprites can't be bigger than stage:  
max length of each one is 480,  
so we need at least two of them.

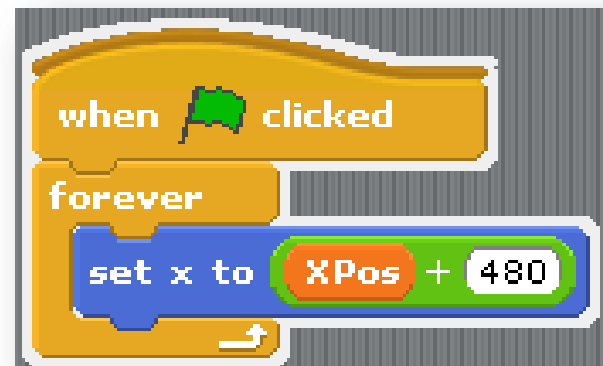
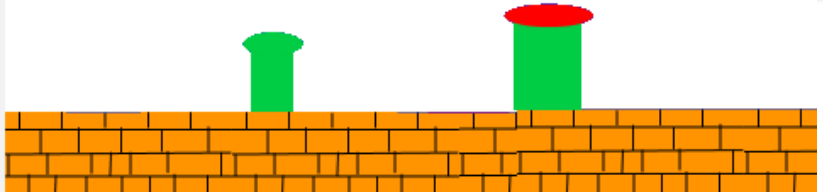
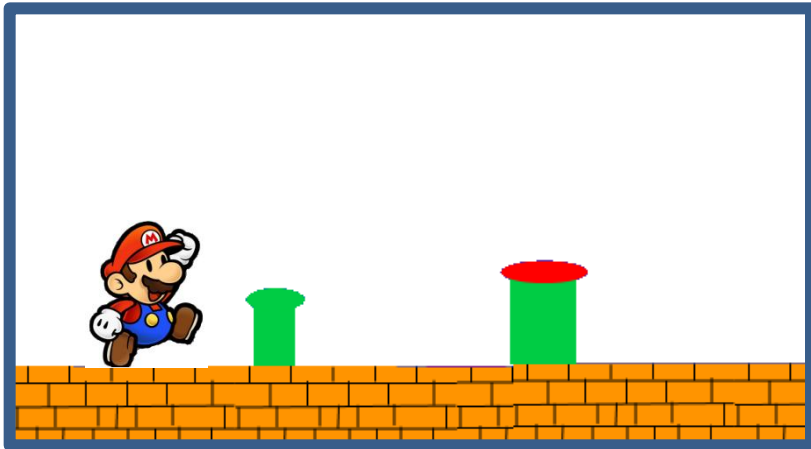
**Add more sprites** to make ground  
longer.

# Setting up the Ground Sprites

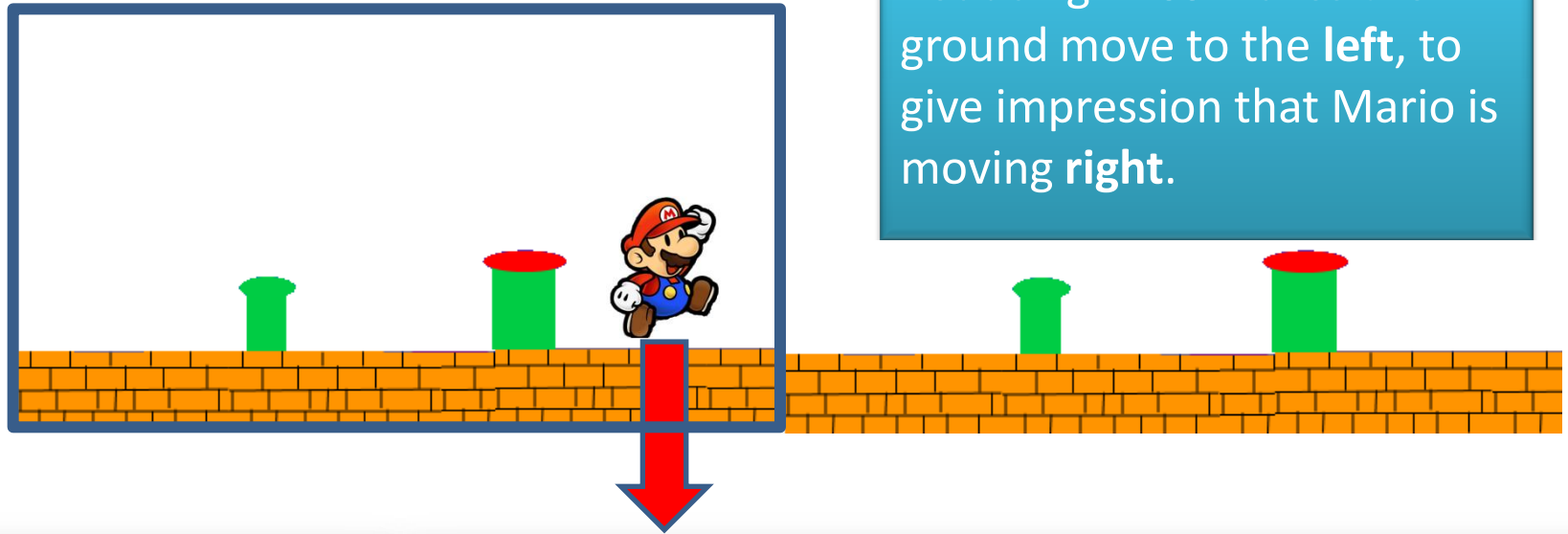
## Part 1

Make a variable **Xpos** =  
x-position of the first ground  
sprite.

The second ground sprite  
will be at x-position =  
 **$XPos + 480$** .



# Setting up the Ground Sprites- Part 2 ...



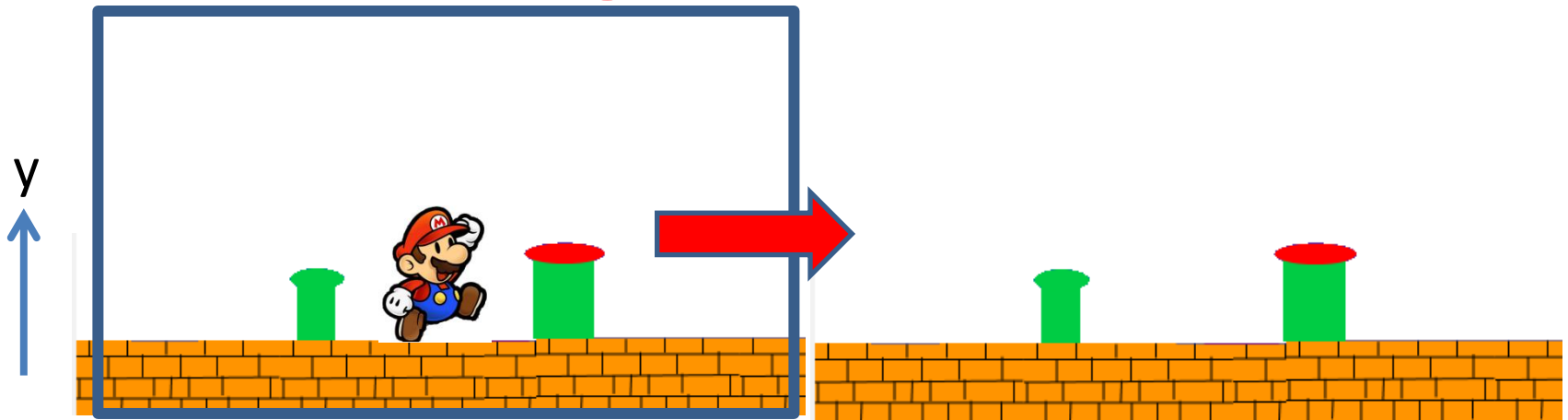
```
when  clicked
  set XPos to 0
```

```
when right arrow key pressed
  point in direction 90
  change XPos by -5
```

```
when left arrow key pressed
  point in direction -90
  change XPos by 5
```



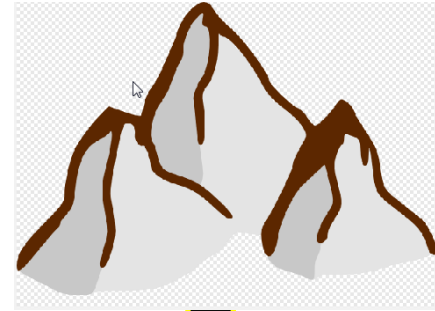
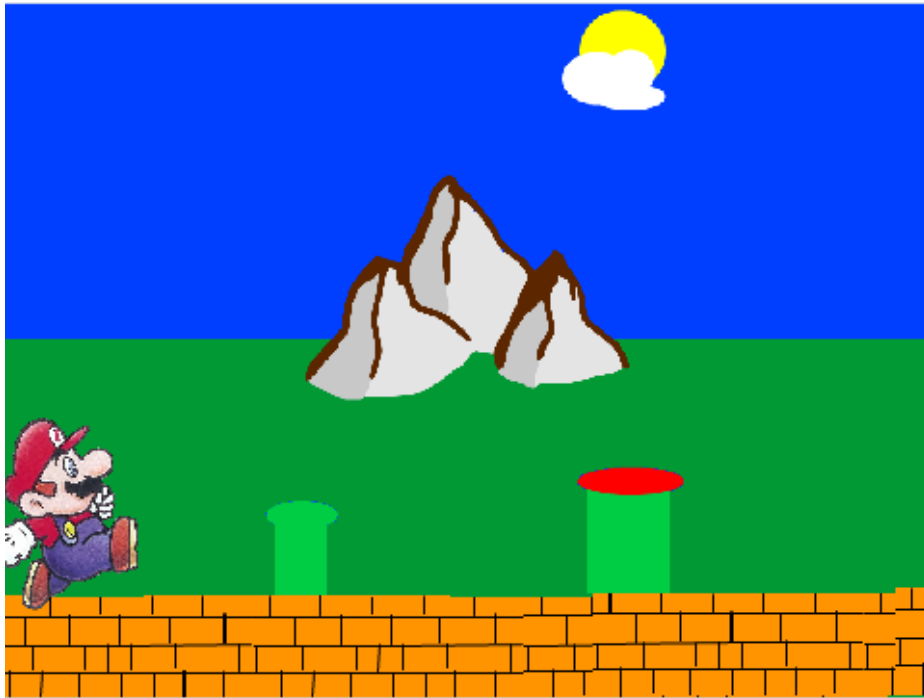
# Make Mario stand on the ground ...



If above ground (not touching colour) move Mario down a bit.

```
when clicked
  forever
    if not touching color [red] ? then
      wait 0.2 secs
      change y by -10
```

# Advanced Idea: Parallax Effect

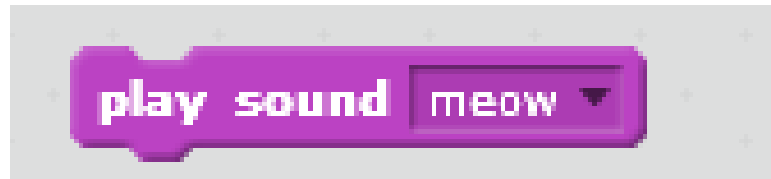


Mountains appear to move more slowly, so change their XPos by a smaller amount.

Also need to consider layers: the ordering of the sprites.



# Some more ideas...



# At the End ...

Upload your project to the Scratch Website

Access it  
from home



Improve it



Show your  
friends!



# Uploading to Scratch Website

