

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

Wifi password: coderdojowireless

CoderDojo Athenry

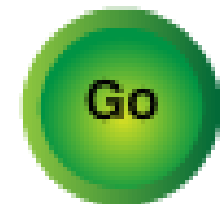
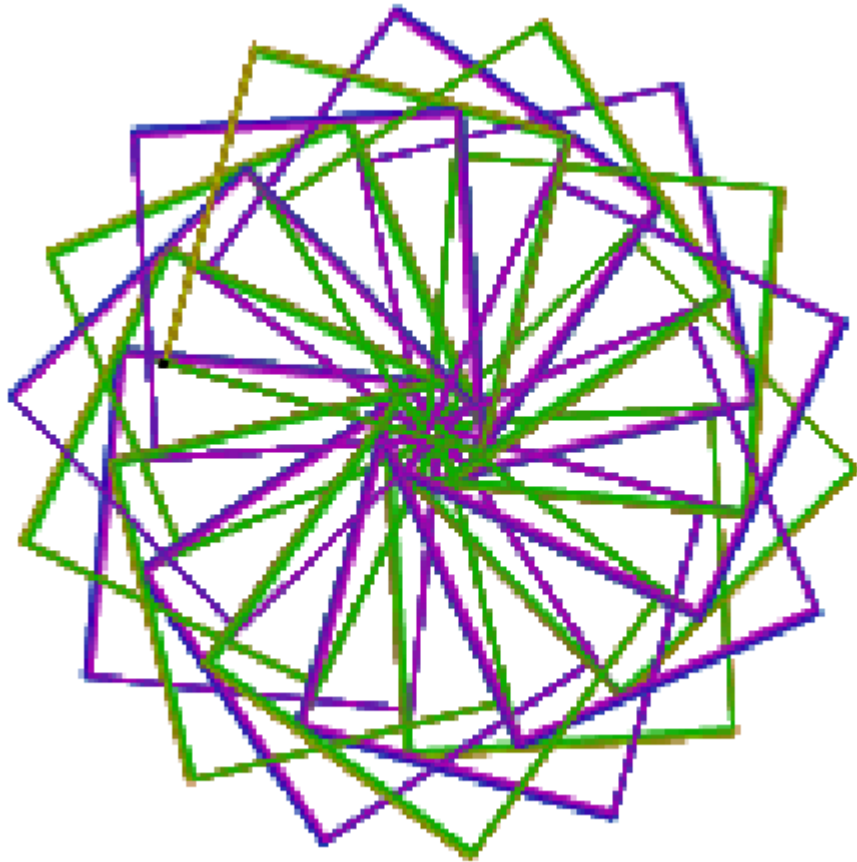
SCRATCH Beginners



Code and notes by Martha Fahy

Today's Challenge:

Pen Command, Sliders, Buttons



Today's **Big** Ideas

Degrees
Sides
Steps

Loops

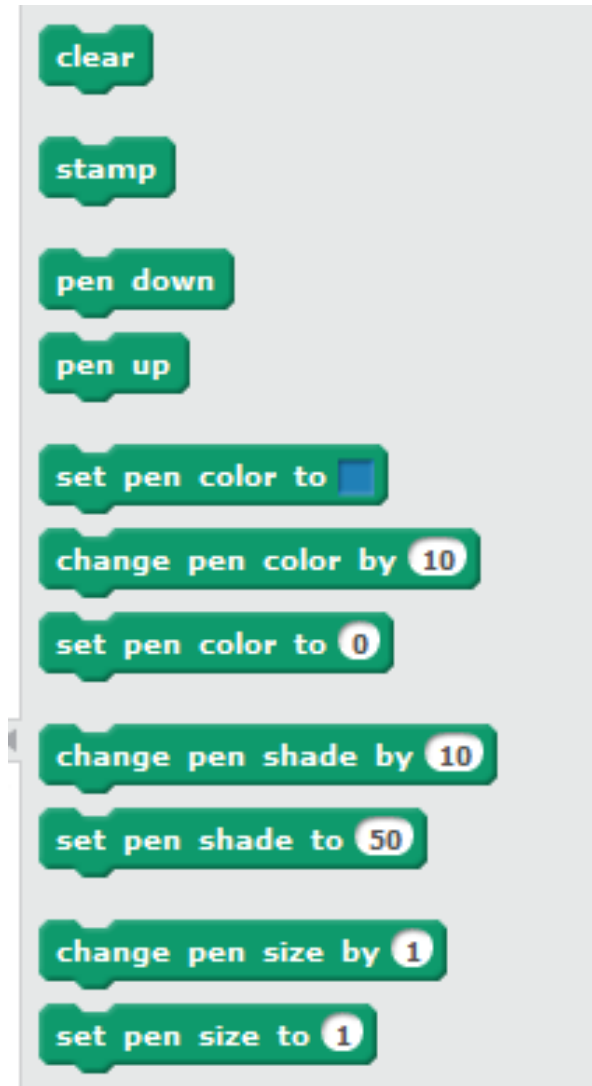
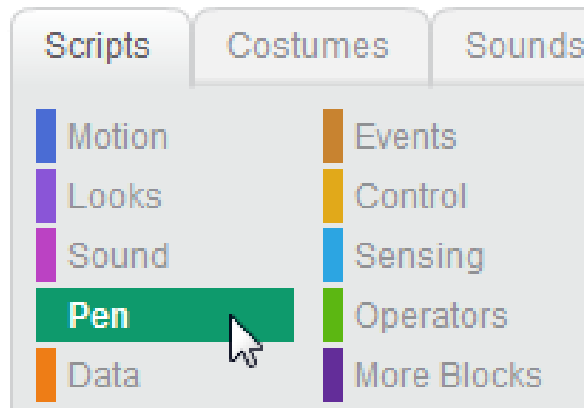
Variables

Sliders

Buttons



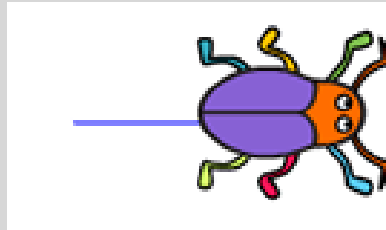
The Pen Commands



The Pen Commands

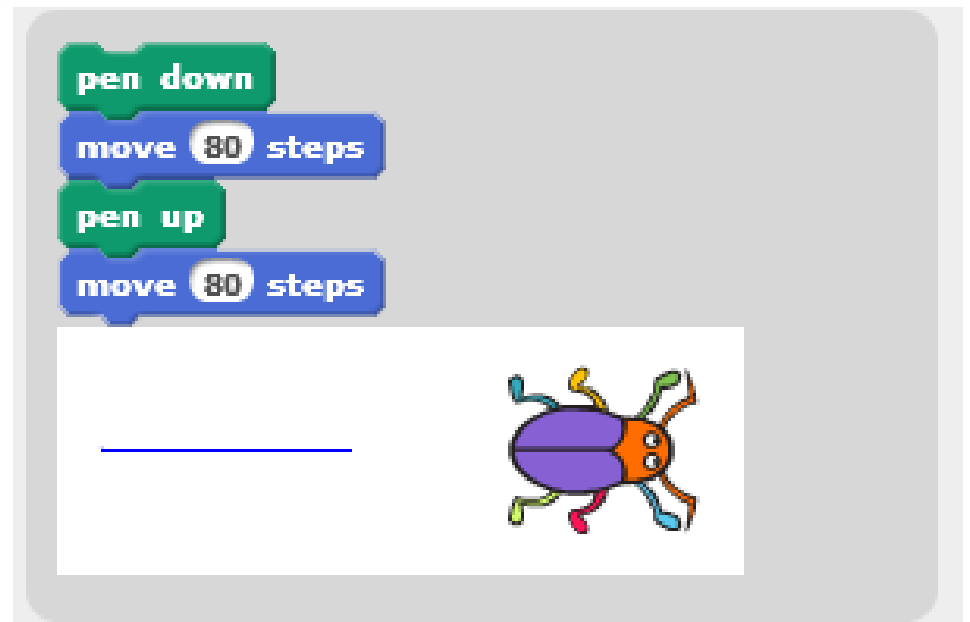


The Pen Commands



The pen will leave a trail as soon as the sprite moves.

The Pen Commands



The Pen Commands



The Pen Commands



```
pen down
repeat 100
  move 2 steps
  set pen color to y position
```



You can either set the pen color to a variable, like `y position` or a number. For example, number 0 is color red, number 70 is green, number 130 is blue, and number 170 is magenta.

Pen_color=0 at red end of rainbow, pen_color=100 at blue end of rainbow. Ranges from 0 to 200 to go around the color wheel.

The Pen Commands

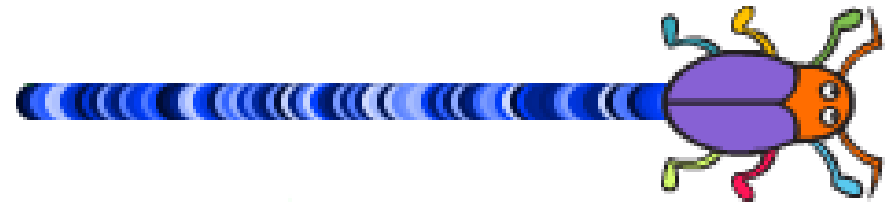


The pen shade goes from 0 to 100. 50 is the default.



Note: If the pen shade is 0, then the pen color will be close to black. If the pen shade is 100, the pen color will be close to white.

The Pen Commands

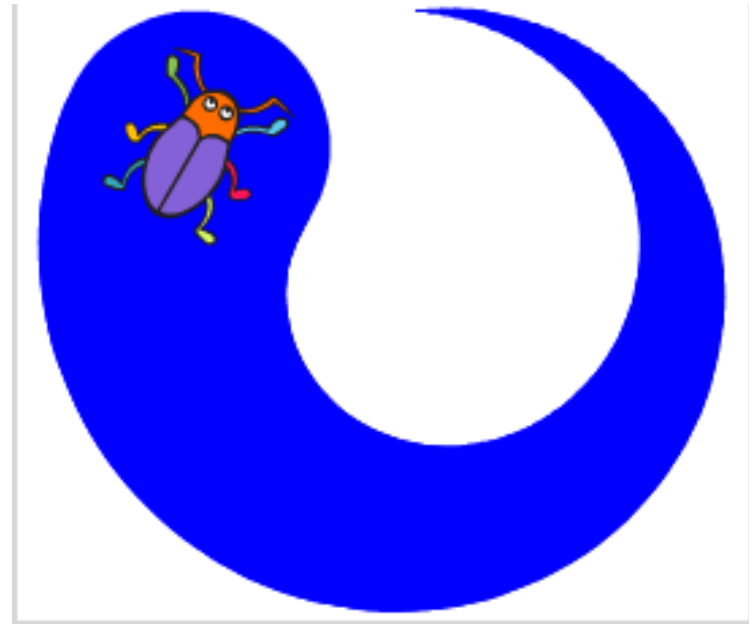


The pen shade goes from 0 to 100. 50 is the default.

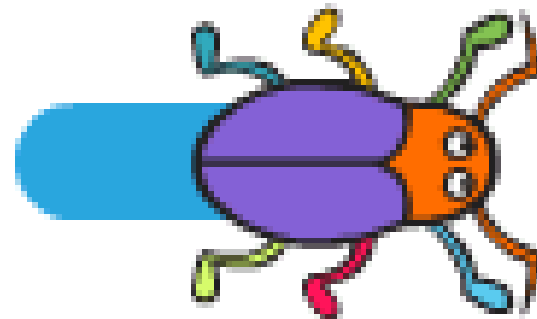


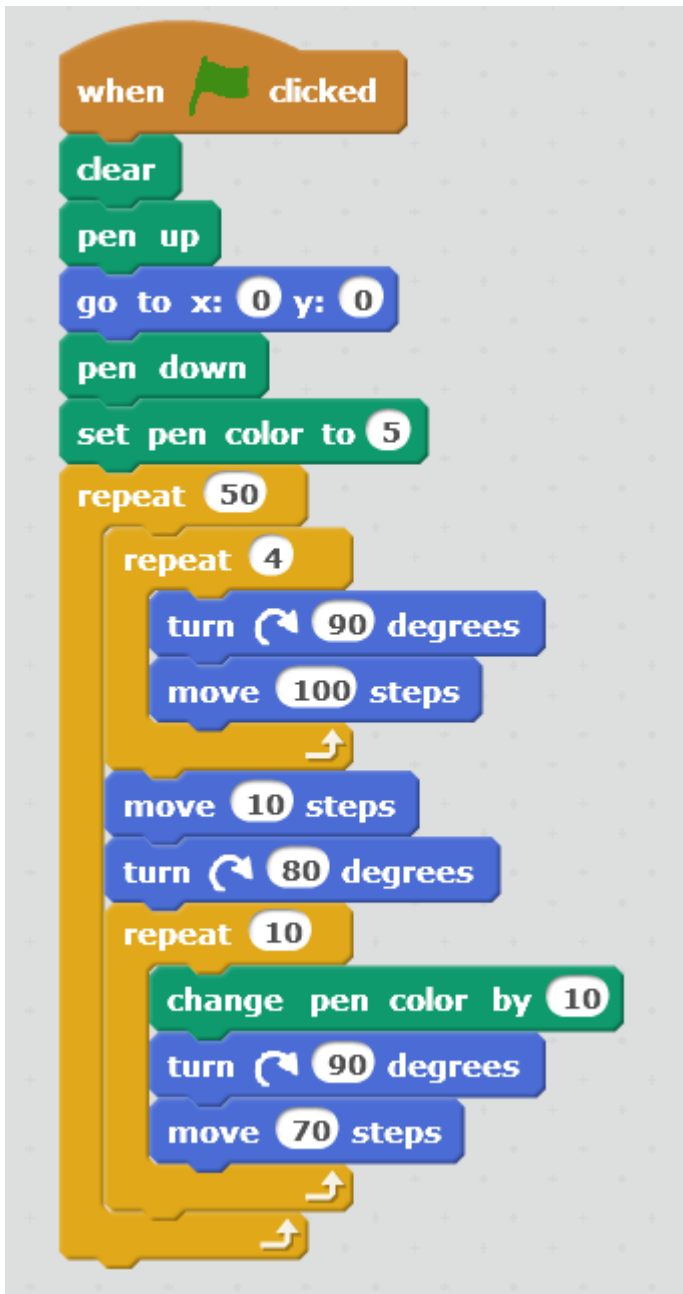
Note: If the pen shade is 0, then the pen color will be close to black. If the pen shade is 100, the pen color will be close to white.

The Pen Commands



The Pen Commands





Now for the
Code!

Make it your
Own

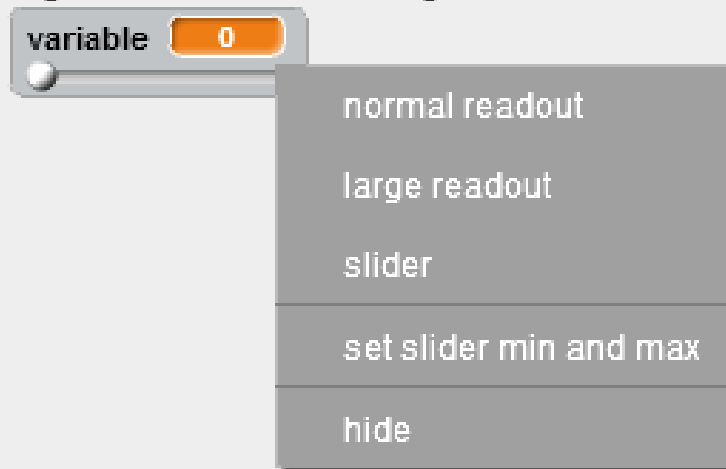
Sliders

A variable can be viewed on screen in a view different views

To see the value of the variable, click the checkbox next to the block.

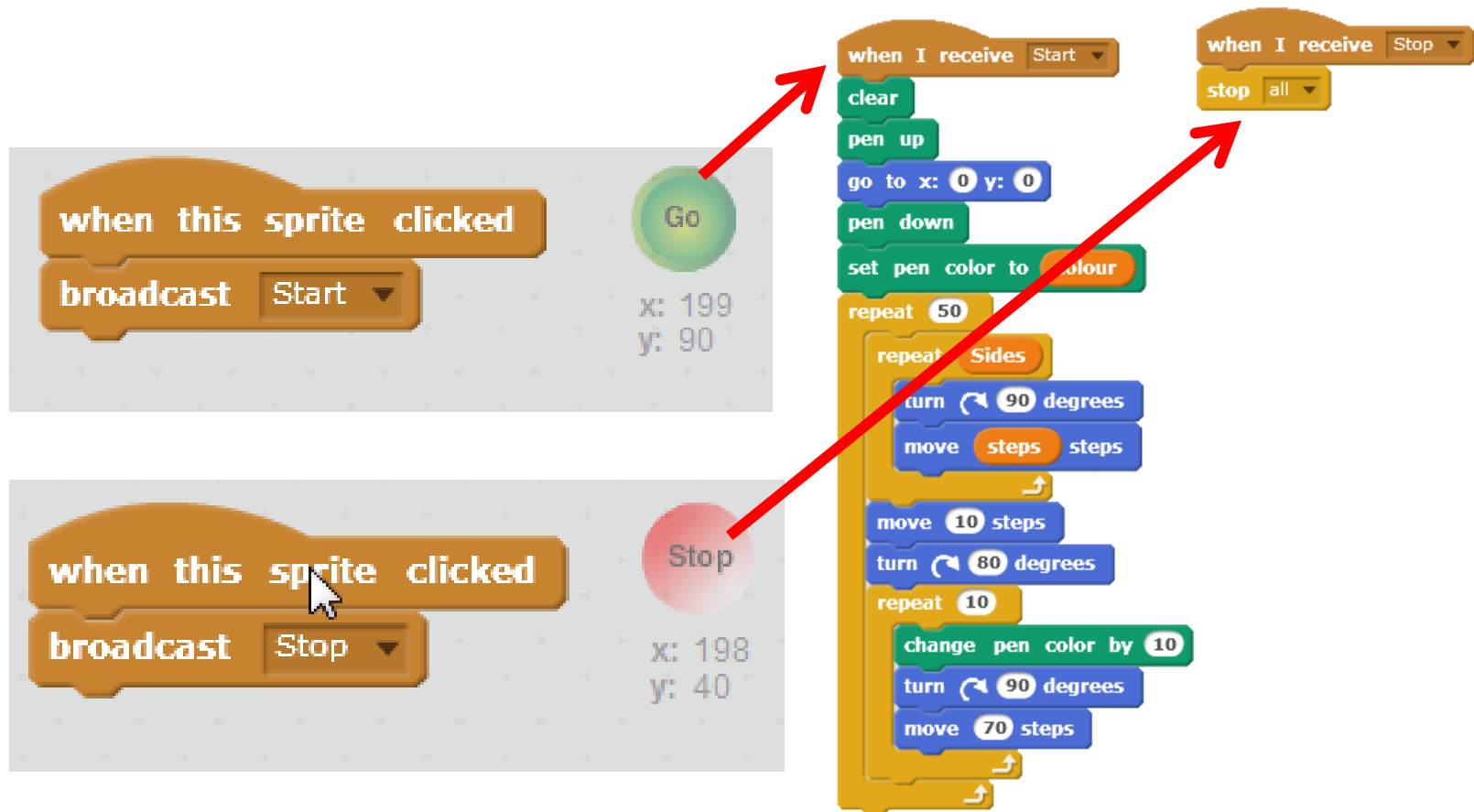


Right-click on readout to get different views:



Buttons

Use sprites as buttons to execute code



At the End ...

Upload your project to the Scratch Website

user: **cdathenry** password: **xxxxxxx**

Access it
from home



Improve it



Show your
friends!



Uploading to Scratch Website

