

Intro to



Lesson 4 Drawing

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Draw a triangle

- Use Pen blocks and Motion blocks to draw
- Use repeat block to repeat the drawing three times
- Change color effects
- Use clear block to clear all the drawings



```
pen down

move 100 steps

turn 120 degrees

repeat 3
```

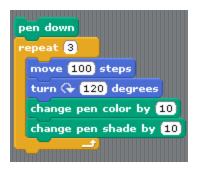
```
change pen color by 10

change pen shade by 10
```



Sequence and Iteration

- Think systematically about the order of steps
 - Put the pen down before drawing
- Forever and repeat can be used for repeating a series of commands
- Use single stepping
 - Understand sequence
 - Diagnose problems



Draw a Circle

- Use the Paint Editor to create a dot
- Use blocks on the figure to draw a circle

```
pen down
move 10 steps
turn 🗣 💪 degrees
repeat 60
```

Draw Patterns

- Combine the triangle/polygon script and circle script
- Save the picture
 - Right click the stage area

```
when clicked

go to x: 0 y: 0

clear

pen down

repeat 60

repeat 6

move 50 steps

turn 60 degrees

change pen color by 10

change pen shade by 10

turn 6 degrees
```