TECHNOVATI N

Week 8: November 12th



Agenda

- Helpful Project Lesson
 - Advanced circles
 - Making your own colors
- Continuing Final Projects
- Temperature Check

Tracy Command: Advanced circle

circle(radius, extent, steps)

Determines degrees of circle

circle(25,360)



circle(25,180)



circle(25,90)



Tracy Command: Advanced circle cont.

circle(radius, extent, steps)

Determines number of points in circle

circle(25,360,3)



circle(25,360,5)

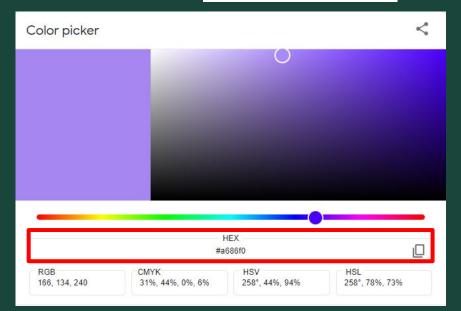


circle(25,360,50)



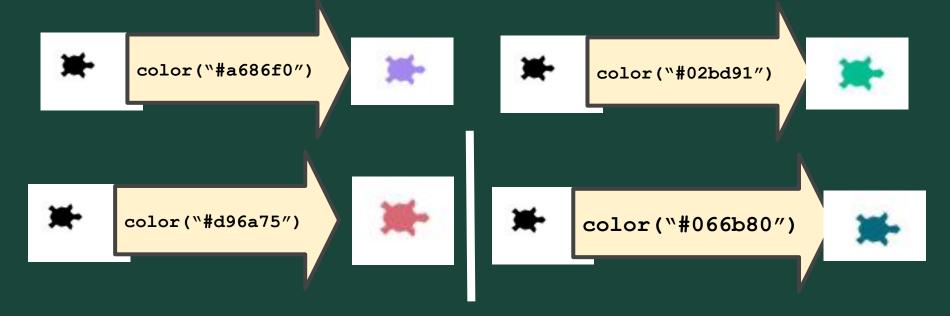
Tracy Command: Custom Color

Tracy can use a lot more colors than you think She can use <u>Hex Colors</u> as well



Tracy Command: Custom Color cont.

By putting the hex color into the color command You can use any color you can find!



Final Project: Overview

- What The Last Three Weeks Look Like:
 - Week 7: Brainstorm, Plan and Design. Submit our Final Project Outlines at the end of the meeting
 - Week 8: Code, Code, Code!
 - Week 9: Present our Final Projects
- Project requirements:
 - Must have so many shapes/colours, but this is a chance for you to have creative freedom.
 - Make sure you can finish it in time! You can also work on it at home or during Bonus Hours.
 If you finish early you are welcome to make a second project
- Ask questions!
 - Don't be afraid to code outside the box! If there is something you don't know how to do, let us know and we will help you add it
- Save your work!
 - It's a great habit to constantly click that 'Save' button. Because we aren't submitting it each time, CodeHS will not automatically save your work

Ready, Set, CODE!

Command	What does it do?
name = value	Saves the value in the variable
<pre>input("prompt")</pre>	Prints prompt and waits for user input
int(), float()	Converts a value to a number (int or float)
for i in range(number)	Initialize a loop
<pre>def function_name():</pre>	Declares a function
function_name()	Calls a function

Command	What does it do?
<pre>color("color name")</pre>	Changes Tracy's trail color
pensize (number)	Changes Tracy's trail thickness
begin_fill()	Starts tracking closed shapes
end_fill()	Fills & stops tracking closed shapes
setposition(x, y)	Moves Tracy to the input coordinates
speed (number)	Sets how fast Tracy executes commands
name = value	Saves the value in the variable
<pre>input("prompt")</pre>	Prints prompt and waits for user input
int(), float()	Converts a value to a number (int or float)

Command	What does it do?
forward(distance)	Moves Tracy forward a specified <i>distance</i>
circle(radius)	Draws a circle with a specified <i>radius</i>
backward(distance)	Moves Tracy backward a specified <i>distance</i>
penup()	Stops Tracy from leaving a trail
pendown()	Has Tracy start drawing a trail
left(num)	Turns Tracy <i>num</i> degrees to the left
right(num)	Turns Tracy <i>num</i> degrees to the right

Standup

- How did coding your final project go today?
- How's your final project looking?
- How much left do you have to do for your project (give us a % of how much you have left)

Temperature Check

• <u>Temperature Check</u>