TECHNOVATI N

Week 6: October 29th



Agenda

- Icebreaker
- Introducing Final Project
 - Overview
 - o Example
- Review:
 - Kahoot!
- Coding Time
- Standup
- Temperature Check

IceBreaker - Digital Art

Sand Art

Draw Art

Fluid Simulation

Final Project: Overview

- The next three weeks:
 - 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.
- If you would like you may choose to work with a partner
- 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

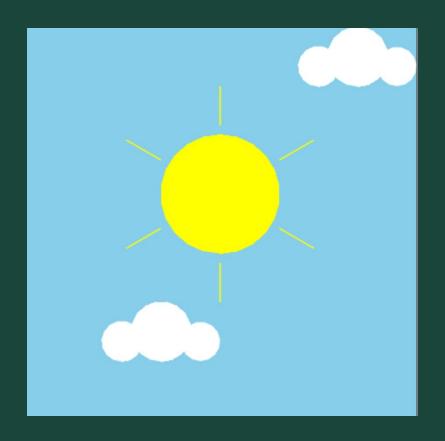
Final Project: Brainstorm

Examples

- Here is Katie's Final Project so far!
- Check out the code <u>here</u>
- Here are more examples!

Some more ideas

- What are you passionate about?
- o Favorite place or animal?
- Food
- Cool geometric shapes or patterns
- Try spelling out words



Review: !!

- Kahoot to review everything from the past 5 weeks!
 - Drawing
 - Variables
 - Loops
 - Functions
 - Moving
 - o Input
- This is just for fun! If you get stuck, take a look at the CodeHS Docs!

Coding Time

- Let's use today to work on the exercises we haven't been able to finish!
- Work at your own pace! Ask questions!
- If you are all caught up through (Unit 4 Section 2), feel free to get an early start on your final project!

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

Any final Project Ideas?

Temperature Check

• <u>Temperature Check</u>