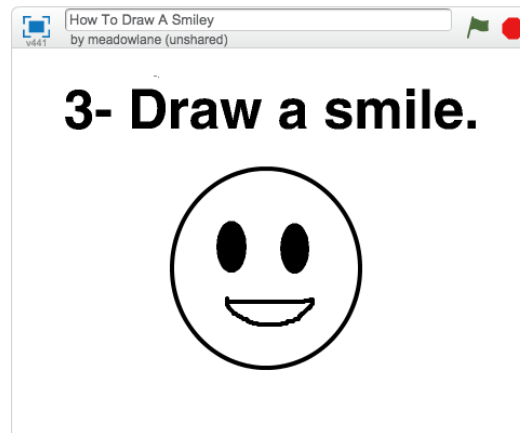


# How To Draw A Smiley

## Introduction

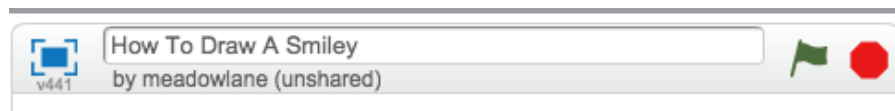
You are going to draw and code an algorithm for how to draw a smiley face.



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## Step 1: Naming and Saving your Project

- ☐ Type a name for your project in the box above the stage.



- ☐ Click File-Save. Remember to save your project often while you work!

## Step 2: Deleting the Scratch Sprite

- ❑ Let's begin by using the scissors to delete Scratch the cat. Click on the scissors at the top of the screen.



- ❑ Next, click on Scratch and it should disappear.

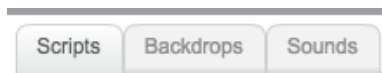


**SAVE!!!!**

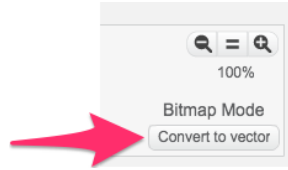


## Step 3: Adding A Title Backdrop

- ❑ Click the Backdrops Tab.



- ❑ Click Convert To Vector Mode in the bottom right hand corner. This will allow you to edit text after you have added it.



- ❑ Use the text tool to add a title to the backdrop. You could also use other drawing tools to further decorate the backdrop.

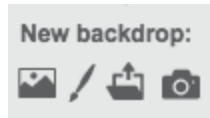


 **SAVE!!!!**

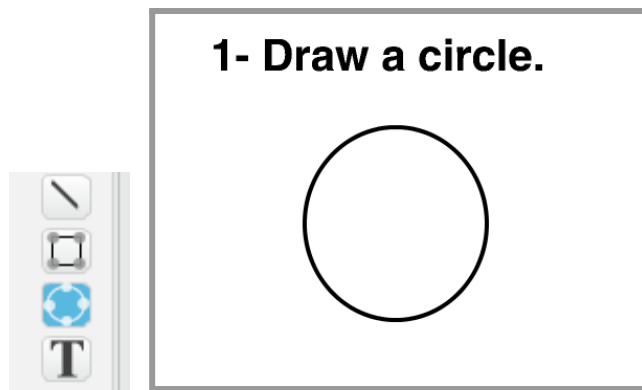


## Step 4: Adding The First Additional Backdrop

- ❑ Click the paintbrush under Additional backdrops to create a new blank backdrop.



- ❑ Add the text, Draw A Circle, and then use the circle tool to add a circle to the backdrop.



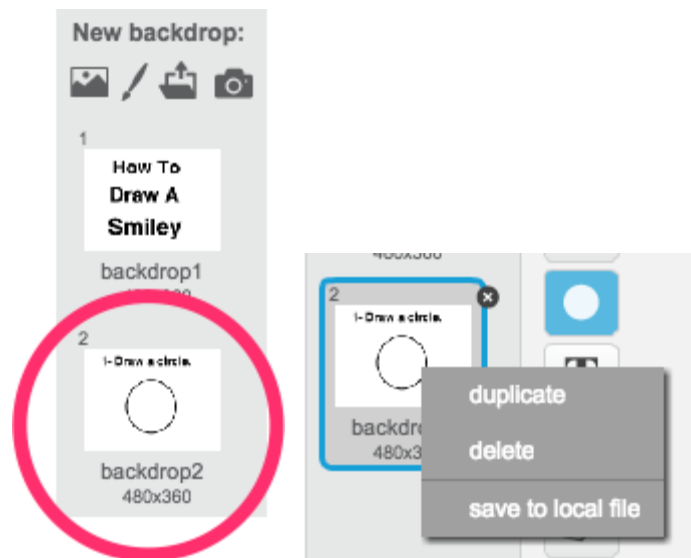
 **SAVE!!!!**



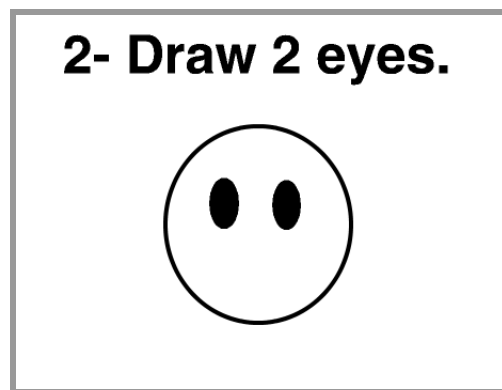
## Step 5: Duplicating Backdrops

- ❑ Let's duplicate or copy the current backdrop and just change it slightly for the next step.

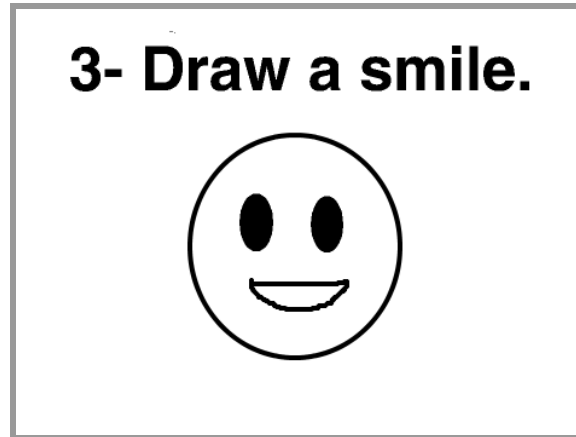
- ❑ Begin by right-clicking the thumbnail image for the backdrop. A menu will appear.



- ❑ Then left-click the word duplicate. You should see an exact copy of backdrop 2.
- ❑ Use the eraser tool to erase the text.
- ❑ Use the circle tool to draw 2 eyes.
- ❑ Use the text tool to add the words, "Draw 2 eyes."



- ❑ Repeat the process of duplicating the current backdrop and changing the new one to look like this:



- ❑ You should now have 4 backdrops, a title and 3 steps to draw a smiley.

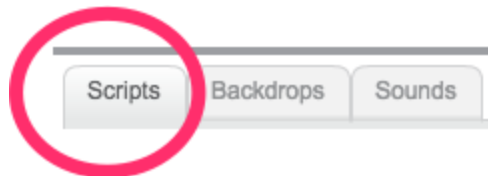


**SAVE!!!!**

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## Step 6: Adding Code

- ❑ Next, you will create two parallel codes to make your project interactive.
- ❑ Click the Scripts tab.



- ❑ Add the Event When Green Flag Clicked.



- ❑ Add the Looks block Switch to Backdrop 4 and change it to Backdrop 1.



- ❑ Create a second code by adding the Event When Space Key Pressed.



- ❑ Finally, add the Looks block Next Backdrop.



- ❑ You should now be able to click the green flag to start your project and then press the spacebar to move to the next backdrop.

 **SAVE!!!!**

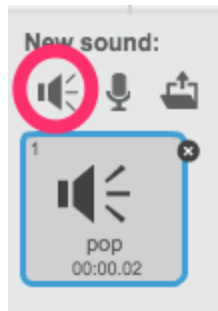


## Step 6: Adding Music

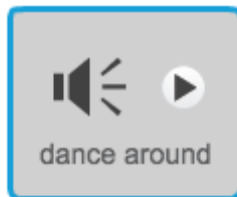
- ❑ Click the Sounds tab.



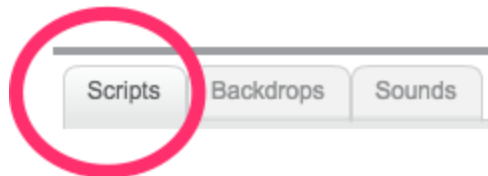
- ❑ Click the add a new sound button.



- ❑ Locate the sound you want to add, click on it, and click OK. (The music loops work great for this!)



- ❑ Click the Scripts tab.

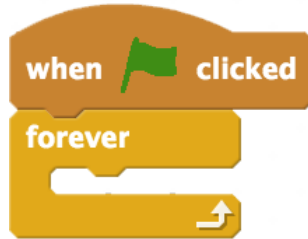




- ❑ Add another when green flag clicked block from Events.



- ❑ Go to the Control blocks and add a forever repeat block.



- ❑ Go to the Sound blocks and add play sound until end block.



Music should now play throughout the project!



**SAVE!!!!**



## Challenge Mode

- ☐ Can you add additional backdrops with new directions? Maybe add color to your project or draw a hat.