Coding means writing instructions for computers. A finished set of instructions is called a program. The following instructions are to help you code some super simple art using Scratch, a computer coding language designed for kids and a great starting tool for beginners.

Jam Art

This simple project lets you use a computer mouse to create different flavours (colours) of jam. Wherever you drag the mouse, a rainbow trail of jam is left behind. We'll also include some other effects for once you've mastered that.

Start by logging onto Scratch: <u>https://scratch.mit.edu</u> You will need to check with your parents first and ask them to help you set up an account.

You will log into a Scratch Stage, the hub of all of your future coding. It should look a bit like this:





2. Now, tap on the button that looks like a cat head with a plus sign next to it. You will go into a place called the Sprite Library.

3. Tap on the search bar and type in Jar (yes Jar, NOT Jam). Double click on the character that pops up. Once you double click it will take you back into the Stage. Don't be overwhelmed by all of the strange-looking blocks, you don't need to use any of the hard ones.



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Sound Events

Control

Sensing

Operators Variables

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• Tutorial

drag and drop

() Sounds

Untitled

Backpack

5. Now, tap on Control and drag the loop Forever into the stage. This means whatever code you place inside the loop will go on forever.

6. Then, go into Motion and drag the button Go to [mouse pointer] into the stage. Put it in the Forever loop.

🔚 Code

Motion

Looks

Sound

Events

Control

Sensing

Operators

Motion





10. Drag Stamp Block into the Stage as shown.

11. Press the Green Flag to test your program! (It should look a bit like this.)





Costumes

Code

12. Click on Events and drag and drop When Space Key Pressed into the Stage as shown.

() Sounds





13. Click on Pen and drag and drop Erase All into the Stage as shown. Now you can use Space Bar to clear your artwork when you are testing it.

14. Click on Events and drag and drop When Space Key Pressed into the Stage as shown. Click on the drop down arrow and select Right Arrow.





15. Click on Looks and drag and drop Change Colour Effect by 25 into the Stage as shown.

Press the Green Flag to test your project. When you press the right arrow on your keyboard, the jam should change flavour!





Code

Events

Costumes

Sounds

Congratulations - You are finished! Press the Green Flag and move your cursor to make jam art. Use the left and right arrow keys to change the flavours of jam. Use the space bar to clear the page. Have Fun!

