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# Loop the loop

In this lesson, we're going to learn all about loops. Loops help us to do really cool things onscreen.

Today, we are going to get data duck to draw a pattern and then use it to play a game!

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## Step 1

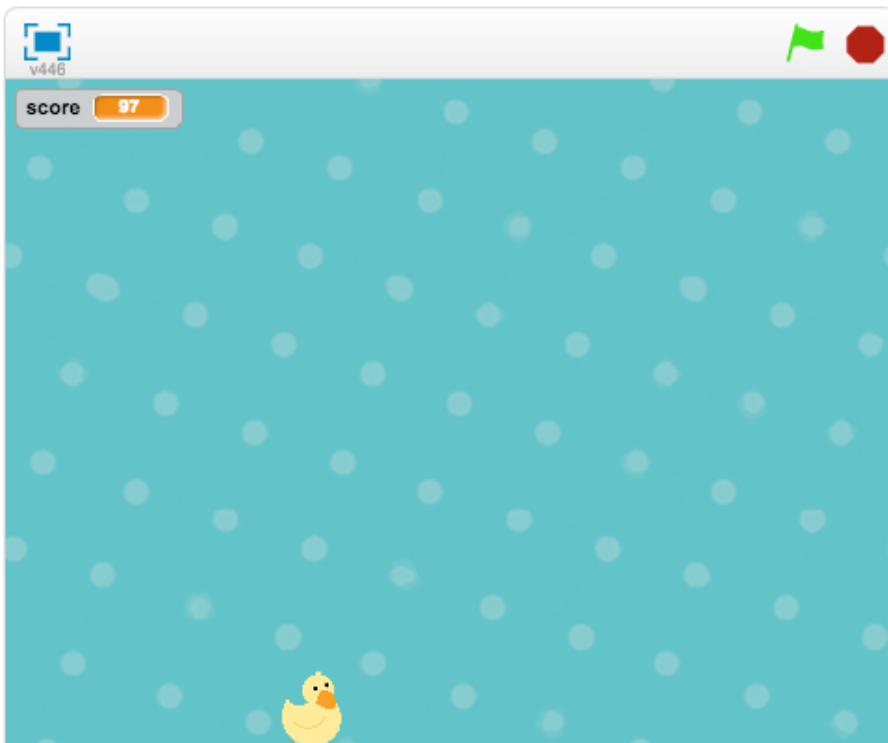
In order to get started, we need to open a program on the Internet, called Scratch.

Click this link: [Take me there!](#)

Or enter the text below into your browser:  
`https://scratch.mit.edu/projects/112850099/#editor`

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Now you should see this:



**Let's get our duck moving across the screen!**

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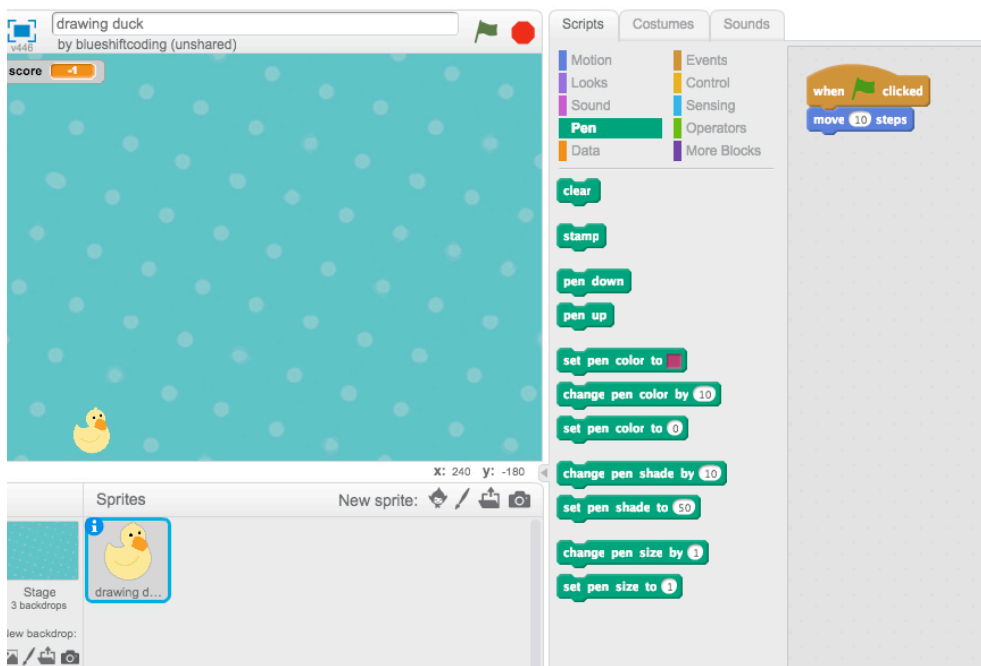
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Give Data Duck this script:



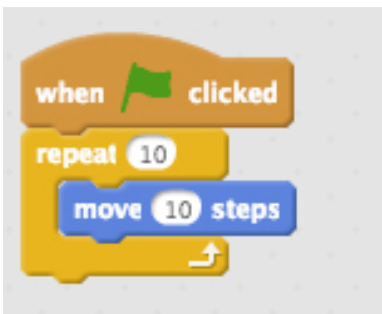
Your screen should look like this:



Press the green flag and see what happens! Keep pressing it!

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Now, let's say we wanted the duck to move across the screen in one go. We'd need to use a loop! What happens when you give the duck this script?



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## Challenge:

Can you imagine what would happen if you changed the script to look like this?

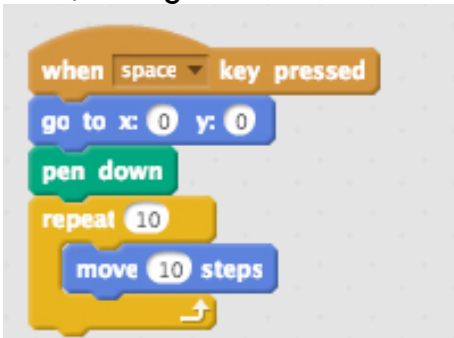


Try it out!

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## Step 3 – Tracing our steps!

Now, let's get our duck drawing some shapes! Try this script:

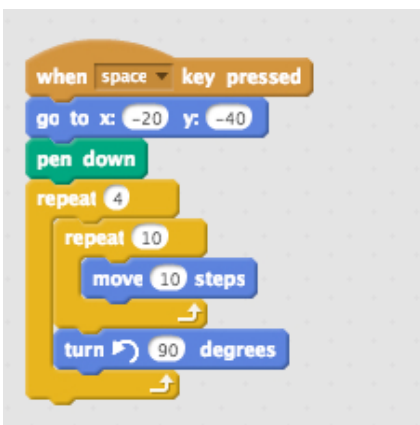


What happens when you press the 'space' key?

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Now, we can start drawing some shapes. Can you predict what this script will do?

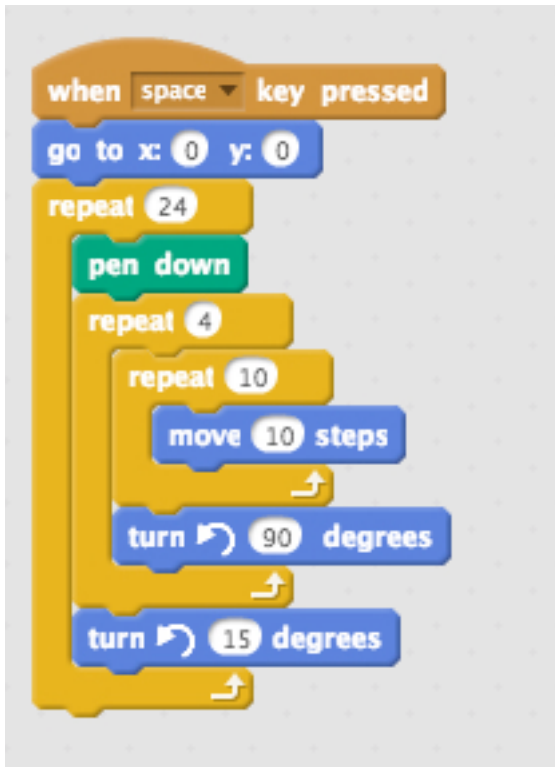
**Hint:** 'turn 90 degrees' means make a quarter turn.



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Let's draw something really cool! Try out the following script:



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## Challenge:

Try changing the numbers in your scripts and see what happens.  
Change the turn to 60 degrees. Can you figure out how to draw a hexagon?

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## Bonus!– Make a game.

As an added treat, we're going to get our duck to draw a playing board for us. Open our game project. [Click here](#)

Or enter this link into your browser:  
<https://scratch.mit.edu/projects/113831214/#editor>

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## Get your duck to draw a playing board.

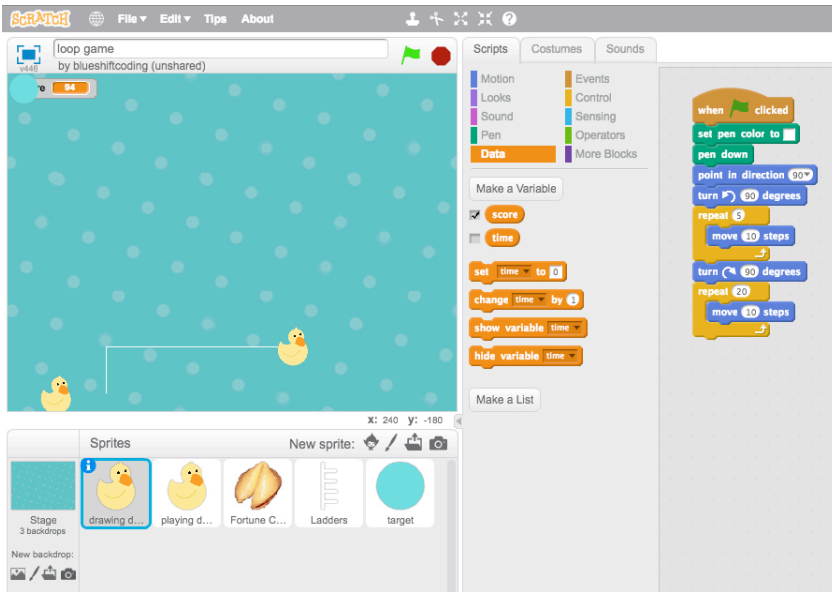
Give this script to the drawing duck.



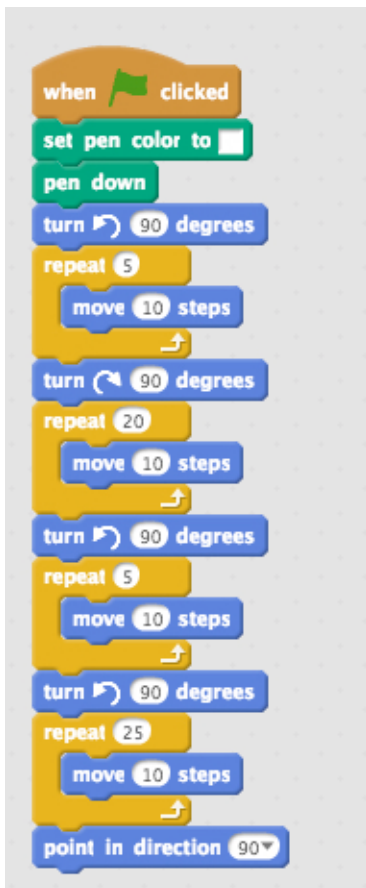
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Your screen should look like this!



Now add some blocks to your script so it looks like this:



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Can you make your script look like this?



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If you can, you will see that the duck draws a playing board and you can play a game where you eat fortune cookies!

**YAY! Let's get playing!**

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