

## How it works

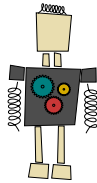
The first part of the program initializes the vertical (y) speed, the "jumping state" and the initial position to 0. Then it starts an infinite loop that takes care of the vertical movement by using the y-speed variable.

The second part of the program keeps on checking if the red points are touching the ground. If it's the case, it starts a new jump when the space key is pressed. Or stops the jump if we just landed on the ground.

While the character is jumping, the vertical speed is reduced by 0.5 until the maximal downwards speed of -10 is reached.

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Coderdojo Zürich, Ale Rimoldi.

Based on <https://wiki.scratch.mit.edu/wiki/Jumping>



## Jumping

Jumping from floor to floor.



## How it works

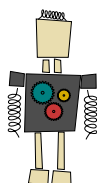
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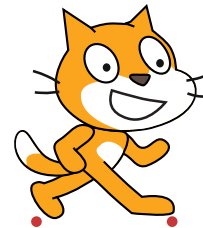
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## Jumping

Jumping from floor to floor.



# Jumping



Get ready

Chose a sprite or draw your own, then add two small colored points under the feets:



We will use them to detect when the sprite touches the ground.

Finally we need two variables:

y-speed

jumping

Try this code



Initialize the jump variables and use y-speed to move up and down

# Jumping



Get ready

Chose a sprite or draw your own, then add two small colored points under the feets:



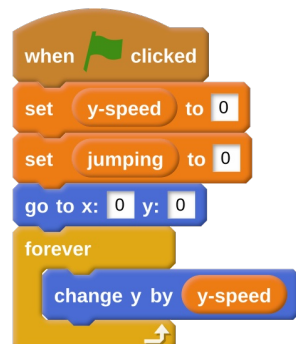
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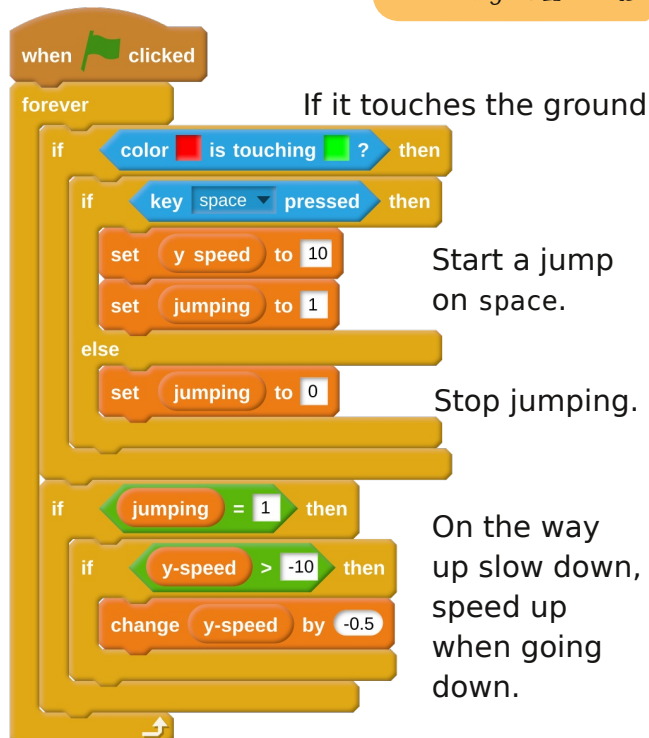
jumping

Try this code



Initialize the jump variables and use y-speed to move up and down

Try this code

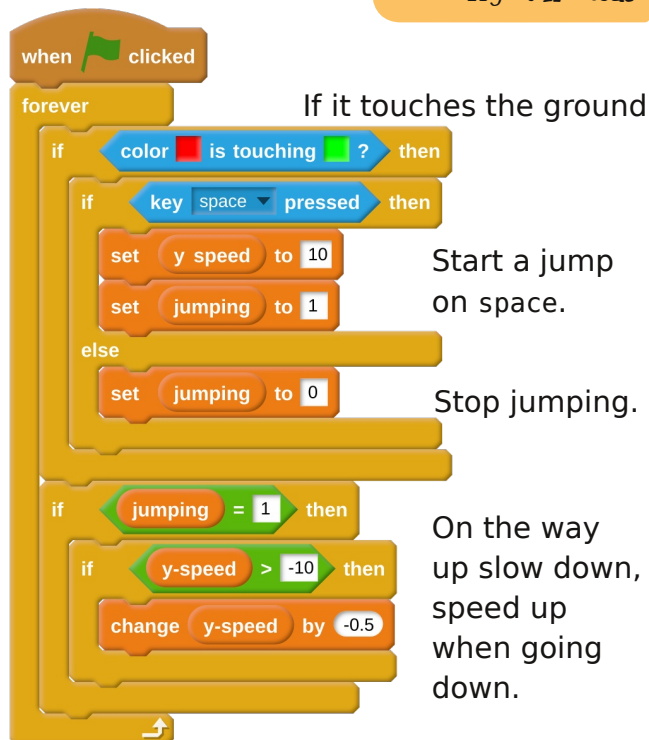


Do it



Click the green flag to start

Try this code



Do it



Click the green flag to start