



### Motion Blocks

#### Basic Movement

<code>move (10) steps</code>	Moves the sprite forward by the specified number of steps. Use negative values to move backward.
<code>turn (15) degrees</code>	Rotates the sprite clockwise by the specified number of degrees.
<code>turn (15) degrees</code>	Rotates the sprite counter-clockwise by the specified number of degrees.
<code>go to (random position)</code>	Moves the sprite to a random location on the stage.
<code>go to x: (0) y: (0)</code>	Moves the sprite to the specified x and y coordinates.
<code>glide (1) secs to x: (0) y: (0)</code>	Smoothly animates the sprite moving to the specified x and y coordinates over the given number of seconds.

#### Direction and Rotation

<code>point in direction (90)</code>	Sets the sprite's direction to the specified angle (0=up, 90=right, 180=down, -90=left).
<code>point towards (mouse-pointer)</code>	Points the sprite towards the mouse pointer or another sprite.
<code>change x by (10)</code>	Changes the sprite's horizontal position by the specified amount.
<code>set x to (0)</code>	Sets the sprite's horizontal position to the specified value.
<code>change y by (10)</code>	Changes the sprite's vertical position by the specified amount.
<code>set y to (0)</code>	Sets the sprite's vertical position to the specified value.

#### Edge Bouncing

<code>if on edge, bounce</code>	- If the sprite is touching the edge of the stage, it will reverse its direction.
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### Looks Blocks

#### Speech and Thought

<code>say (Hello!) for (2) seconds</code>	Displays a speech bubble with the specified text for the given duration.
<code>say (Hello!)</code>	Displays a speech bubble with the specified text indefinitely.
<code>think (Hmm...) for (2) seconds</code>	Displays a thought bubble with the specified text for the given duration.
<code>think (Hmm...)</code>	Displays a thought bubble with the specified text indefinitely.

#### Effects

<code>change [color v] effect by (25)</code>	Changes the specified visual effect (color, fisheye, whirl, pixelate, mosaic, brightness, ghost) by the given amount.
<code>set [color v] effect to (0)</code>	Sets the specified visual effect to the given value.
<code>clear graphic effects</code>	Removes all visual effects applied to the sprite.
<code>change size by (10)</code>	Changes the sprite's size by the specified amount.
<code>set size to (100) %</code>	Sets the sprite's size to the specified percentage.

#### Visibility

<code>show</code>	Makes the sprite visible.
<code>hide</code>	Hides the sprite from view.
<code>go to [front v] layer</code>	Moves the sprite to the front or back layer, controlling its stacking order.

### Costumes and Backdrops

<code>switch costume to (costume1)</code>	Changes the sprite's appearance to the specified costume.
<code>next costume</code>	Switches to the next costume in the sprite's costume list.
<code>switch backdrop to (backdrop1)</code>	Changes the stage's background to the specified backdrop.
<code>next backdrop</code>	Switches to the next backdrop in the stage's backdrop list.

### Control Blocks

## Events

<code>when [green flag v] clicked</code>	Starts the script when the green flag is clicked.
<code>when this sprite clicked</code>	Starts the script when the sprite is clicked.
<code>when [space v] key pressed</code>	Starts the script when the specified key is pressed.
<code>when backdrop switches to [backdrop1 v]</code>	Starts the script when the backdrop changes to the specified backdrop.
<code>when [loudness v] &gt; (10)</code>	Starts the script when the loudness (from the microphone) exceeds the specified threshold.
<code>when I receive [message1 v]</code>	Starts the script when a broadcast message is received.

## Loops

<code>wait (1) seconds</code>	Pauses the script execution for the specified number of seconds.
<code>repeat (10)</code>	Executes the blocks inside the loop the specified number of times.
<code>forever</code>	Executes the blocks inside the loop indefinitely.
<code>if &lt;(true)&gt; then</code>	Executes the blocks inside the <code>if</code> block only if the condition is true.
<code>if &lt;(true)&gt; then ... else</code>	Executes the blocks inside the <code>if</code> block if the condition is true; otherwise, executes the blocks inside the <code>else</code> block.
<code>wait until &lt;(true)&gt;</code>	Pauses the script execution until the specified condition is true.
<code>repeat until &lt;(true)&gt;</code>	Executes the blocks inside the loop until the specified condition is true.

## Stopping Scripts

<code>stop [all v]</code>	Stops the specified scripts (all, this script, other scripts in sprite).
<code>create clone of [myself v]</code>	Creates a clone of the sprite.
<code>delete this clone</code>	Deletes the current clone.

## Broadcasting

<code>broadcast [message1 v]</code>	Sends a message to all sprites and the stage without waiting for a response.
<code>broadcast [message1 v] and wait</code>	Sends a message and pauses the script execution until all receiving scripts have finished running.

## Sound and Pen Blocks

### Sound Blocks

<code>play sound [Meow v] until done</code>	Plays the specified sound and waits until it finishes before continuing the script.
<code>start sound [Meow v]</code>	Starts playing the sound without waiting for it to finish.
<code>stop all sounds</code>	Stops all currently playing sounds.
<code>change volume by (-10)</code>	Changes the volume by the specified amount.
<code>set volume to (100) %</code>	Sets the volume to the specified percentage.
<code>change tempo by (20)</code>	Changes the tempo (speed) of the music by the specified amount.
<code>set tempo to (60) bpm</code>	Sets the tempo to the specified beats per minute.

### Pen Blocks

<code>erase all</code>	Clears all pen drawings from the stage.
<code>pen down</code>	Starts drawing when the sprite moves.
<code>pen up</code>	Stops drawing when the sprite moves.
<code>set pen color to (#FF0000)</code>	Sets the pen color to the specified RGB value.
<code>change pen color by (10)</code>	Changes the pen color by the specified amount.
<code>set pen size to (1)</code>	Sets the pen size to the specified value.
<code>change pen size by (1)</code>	Changes the pen size by the specified amount.