Title

Loops: Animal Parade Fall 2020 UCSD Version

See inside

Thanks to **ScratchEncore** for the original project **Loops: Animal Parade**.

Thanks to **jangw123** for the original project **Animation - Demo Race**.

Instructions & Purpose (scroll)

Instructions

Click the green flag.
Then press 0 and see what sprites do what.
Then press 1 and see what sprites do what.

Notes and Credits

How did you make this project? Did you use ideas, scripts or artwork from other people? Thank them here.

Play

SCRATCH — File — Edit — Tutorials — Loops: Animal Parade Fall... — Shared — See Project Page — bethsimon-teacher

Code — Costumes — Sounds

Motion

Motion
move 10 steps
turn 15 degrees
turn 15 degrees
go to random position
go to x: -181 y: -124
glide 1 secs to random position
glide 1 secs to x: -181 y: -124
point in direction 90
point towards mouse-pointer
change x by 10
set x to -181

Events

when 🟩 clicked
go to x: -181 y: -124
switch costume to Dog-a

when this sprite clicked
repeat 3
wait .5 seconds
move 50 steps
next costume

when 2 key pressed
wait .5 seconds
move 50 steps
next costume
wait .5 seconds
move 50 steps
next costume
wait .5 seconds
move 50 steps
next costume

when 1 key pressed
wait .5 seconds

Script

Stage

Sprite Dog x -181 y -124
Show Size 70 Direction 90

Dog Kangaroo Grasshopper Bee

Stage
Backdrops 3

Sprites

1

LOOP: ANIMAL PARADE

Go to https://scratch.mit.edu/projects/428258614/

Use a **repeat loop** to control *how many times* an action happens

repeat

Click for help navigating Scratch!

GET YOUR HEAD IN THE GAME:
Read the **title**, **instructions** (how to use it) and **purpose** (skills you'll learn)

Press one number at a time and count how many times the Dog walked or the Bee buzzed.

Play: Click on stuff, circle what you saw

1. Circle the number of times the dog walks.

| 1 | 0 1 2 3 4 | 3 | 0 1 2 3 4 | 5 | 0 1 2 3 4 |
| 2 | 0 1 2 3 4 | 4 | 0 1 2 3 4 | | |

2. Circle the number of times the bee buzzed.

| 1 | 0 1 2 3 4 | 3 | 0 1 2 3 4 | 5 | 0 1 2 3 4 |
| 2 | 0 1 2 3 4 | 4 | 0 1 2 3 4 | | |

Now let's **Explore** the code.
Click on [Remix] to make your own copy.
Click on the sprite tile under the stage to find the sprite's scripts.

🐕 3. Circle the two scripts that do the **same thing**.

```
when this sprite clicked
repeat 3
  wait .5 seconds
  move 50 steps
  next costume
```

```
when 1 key pressed
wait .5 seconds
move 50 steps
next costume
wait .5 seconds
move 50 steps
next costume
```

```
when 2 key pressed
wait .5 seconds
move 50 steps
next costume
wait .5 seconds
move 50 steps
next costume
wait .5 seconds
move 50 steps
next costume
```

🐝 4. Circle the two scripts that do the **same thing**.

```
play sound Bzz until done
turn ↺ 180 degrees
wait .3 seconds
```
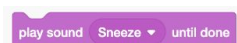
```
repeat 3
  play sound Bzz until done
  turn ↺ 180 degrees
  wait .3 seconds
```

```
play sound Bzz until done
turn ↺ 180 degrees
wait .3 seconds
play sound Bzz until done
turn ↺ 180 degrees
wait .3 seconds
play sound Bzz until done
turn ↺ 180 degrees
wait .3 seconds
```

Tinker Time! Find Dog's code. **Explore** what happens when you:

🐕 Add a `play sound Sneeze until done` block **into** the loop.

```
repeat
  play sound ▼ until done
```

How many times does the Dog "Sneeze"?

1   2   3   4   5

🐕 Add a `play sound Sneeze until done` block **after** the loop.

```
repeat
play sound ▼ until done
```

How many times does the Dog "Sneeze"?
1   2   3   4   5

Change the number 3 in the loop `repeat ◯` to 2.   Does the Dog move **MORE** or **LESS**?

Your Quest:
1. Make scripts for the Kangaroo and Grasshopper using a repeat loop.
2. Make a script that makes the Bee fly around in a circle when it is clicked (use next costume, turn, and move steps blocks).

OTHER BLOCKS TO PLAY WITH

```
change size by 10
```
```
move ◯ steps
```
```
change color ▼ effect by ◯
```

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