



Simple lessons of Scratch programs to make understand easier programming basics

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Lesson 1 "Animated card"

Lesson 2 "Maze"

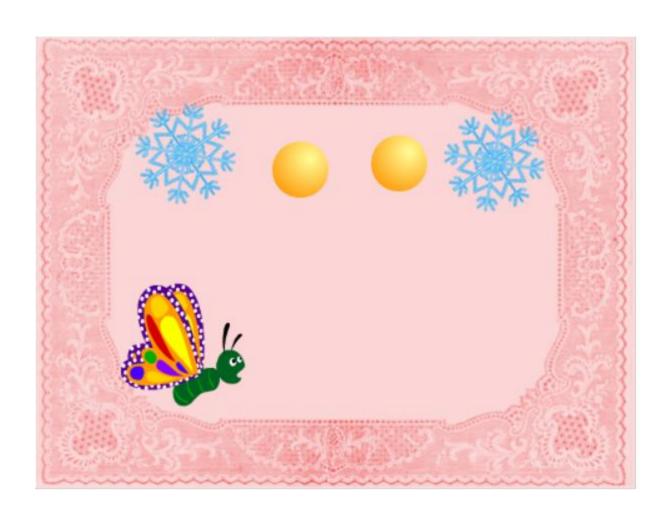
Lesson 3 "Jumping dinosaur"

Lesson 4 "Ghost catch-up"

Lesson 5 "Spider hunter"

Lesson 6 "Climbing monkey"

Lesson 1 Animated card





```
when clicked

forever

move 10 steps

if on edge, bounce

say Happy to be your friend!
```



```
when clicked

forever

change color effect by 25
```



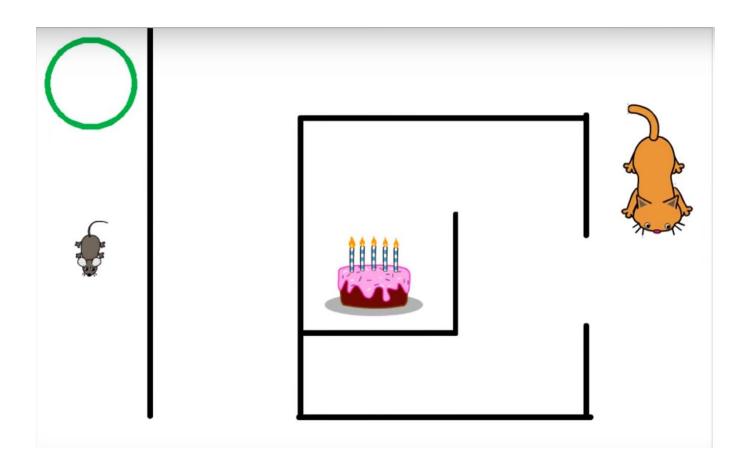
```
when clicked

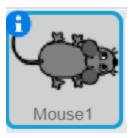
forever

change color v effect by 3

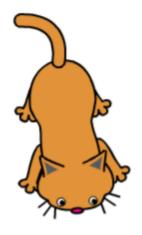
turn ( 5 degrees
```

Lesson 2 MAZE





```
when / clicked
forever
       key up arrow ▼ pressed? then
    point in direction 0
    move 7 steps
      key down arrow v pressed? then
    point in direction 180
    move 7 steps
      key right arrow v pressed? then
    point in direction 90
    move 7 steps
      key left arrow ▼ pressed? then
    point in direction -90
    move 7 steps
      touching color
                      ? then
    go to x: -212 y: 149
```



```
when clicked

forever

glide 2 secs to x: 144 y: 164

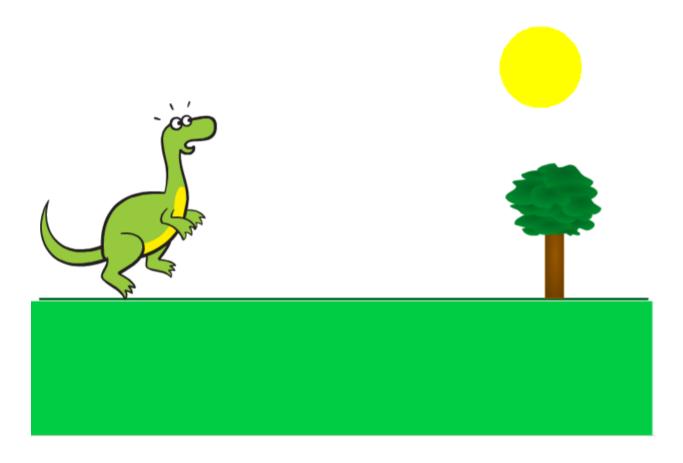
turn (180 degrees)

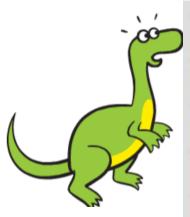
glide 2 secs to x: 144 y: -164

turn (180 degrees)

turn (180 degrees)
```

Lesson 3 Jumping dinosaur





```
when / clicked
go to x: -164 y: 0
forever
       key up arrow v pressed? then
    go to x: -164 y: 100
    wait 0.5 secs
    go to x: -164 y: 0
       touching Tree1 ▼ ? then
  if
    broadcast Game over *
when I receive Game over
say Bye!
wait 0.5 secs
stop all 🔻
```



```
when / clicked
hide
forever
  create clone of myself ▼
  wait 1 secs
when I start as a clone
show
go to x: 210 y: -40
repeat until (x position) < -210
  change x by -15
delete this clone
```

Lesson 4 Ghost catch-up





```
when clicked

forever

point towards mouse-pointer move 10 steps

if touching Ghost2 ? then

say Bye

wait 1 secs

stop all v

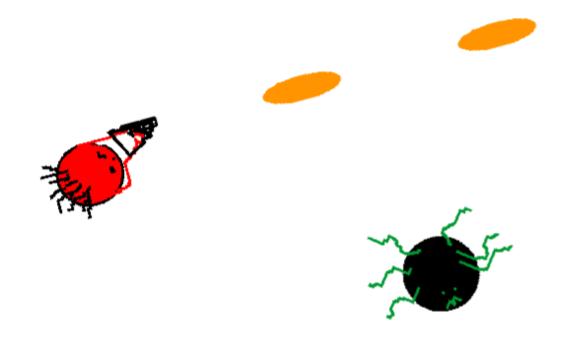
else

change color effect by 10
```



```
when 🖊 clicked
hide
forever
  create clone of myself v
  wait 1 secs
      (touching Ghost1 ▼ ?) then
    stop all ▼
    turn 🖍 -180 degrees
when I start as a clone
show
go to x: pick random -230 to 220 y: 150
repeat until (x position) < -230 / and (y position) < -210
  change x by 3
  change y by -10
delete this clone
```

Lesson 5 Spider hunter





Hunter

```
when / clicked
when / clicked
                                                               x: 28
                                            forever
                                                               y: -141
forever
                                              create clone of bullet v
      key right arrow v pressed? then
                                              wait 0.3 secs
    turn ( 5 degrees
  if key left arrow pressed? then
    turn 🔊 🍮 degrees
      key up arrow ▼ pressed? / then
    move 5 steps
      key down arrow pressed? then
    move -5 steps
```

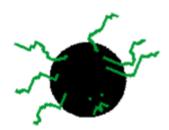


Bullet

```
when clicked when I start as a clone y: -165

show

go to hunter point in direction of hunter point in direction of hunter point in direction direction of hunter point in direction of hunter
```



SPIDER

```
when clicked

when I start as a clone

show

go to x: 250 y: pick random = 170 to 170

forever

point towards hunter

move 2 steps

if touching bullet ? then

wait 0.1 secs

delete this clone

if touching hunter 2 then
```

Lesson 6 Climbing monkey







```
when / clicked
                                              define climb
go to x: 205 y: 170
                                             if down speed < 0 then
                                                                              y: -49
set down speed ▼ to 0
forever
                                               repeat until touching liana ?
  change down speed by -1
                                                 set down speed ▼ to 15
  change y by down speed
                                                 change y by -2
  climb
  if key right arrow ▼ pressed? then
   point in direction 90
   move 15 steps
 if key left arrow pressed? then
   point in direction -90▼
   move 15 steps
  if touching ground ? then
   stop all ▼
      (ئے
```



```
when I start as a clone

show

go to x: pick random =50 to 240 y: 160

x: 110
y: 72

repeat until  y position < =150

change y by =5

delete this clone
```