

4 STAGE

HACK ATTACK!

★ Chapter Objective

Learn how to control sprites using the mouse and program objects to bounce when hit.

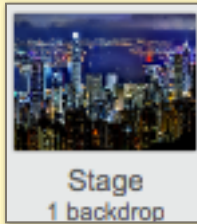
The Game

Help Scratchy stop Viruses from attacking Hong Kong's server. If you stop 30 viruses, you win the game!

1 * Download file "Scratch Stage 4"

Scratch Stage 4

2 Click the "Stage"



3 Program the Background Stage to Glow

```
when I receive start
  clear graphic effects
  forever
    repeat 2
      wait 0.3 secs
      change brightness effect by -5
    repeat 2
      wait 0.3 secs
      change brightness effect by 5
```

4

Click the "Instructions" 



5

Program the Instruction Sprite to show up at the start of the game

```

when green flag clicked
  go to x: 0 y: 0
  show
  forever
    if key space pressed? then
      broadcast space
      hide
  
```

6

Program the game to start when the Space button is clicked

```

when I receive space
  broadcast start
  
```

7

Click "Neo-Cat" Sprite 



8

Program Scratchy to change costumes when the mouse is clicked

```

when green flag clicked
  forever
    if mouse down? then
      switch costume to Neo-cat2
      wait 0.1 secs
    else
      switch costume to Neo-cat1
  
```

9

Program Scratchy to hide before the game starts

```

when green flag clicked
  hide
  
```

10

Program Scratchy to move towards the mouse when it is clicked

```
when I receive start
  go to x: -185 y: -115
  point in direction 90
  go to front
  show
  forever
    if mouse down? then
      point towards mouse-pointer
      glide 0.1 secs to x: mouse x y: mouse y
```

11

Program Scratchy say "OH NO!!" whenever he receives the "Oh" signal

```
when I receive Oh
  say OH NO!! for 0.3 secs
```

12

Click "Server" Sprite

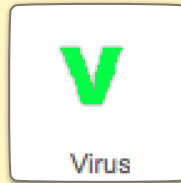


13

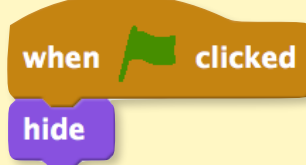
Program a starting point for the Server sprite (at the bottom of the game)

```
when I receive start
  go to x: 0 y: -176
```

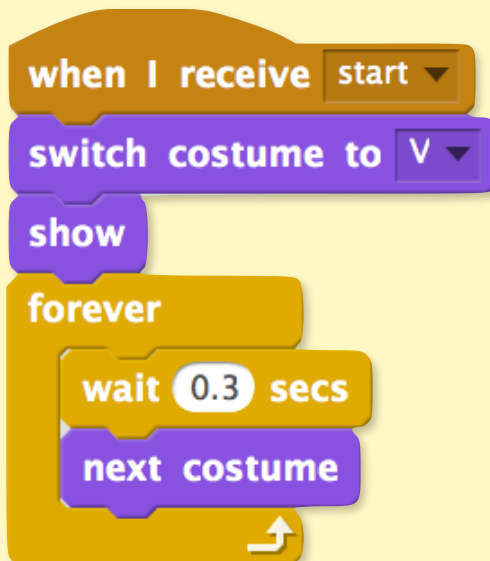
14 Click "Virus" Sprite



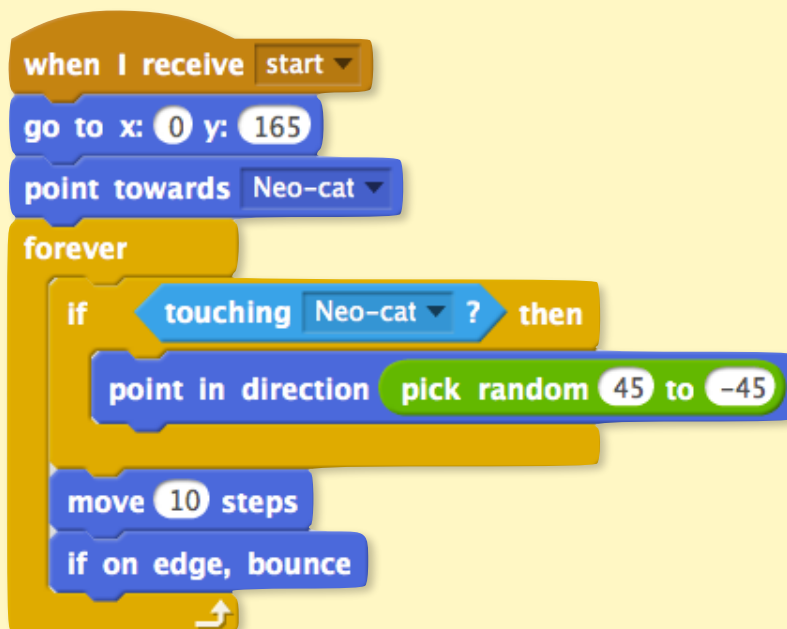
15 Hide the "Virus" Sprite until the game starts



16 Program the "Virus" to switch costumes forever



17 Program the virus to fly around **AND** to bounce whenever it touches Scratchy of the edge of the screen



18

Program a script to **keep score** AND **decide how many points you need to win**

```

when I receive start
  set score to 0
  wait 0.5 secs
  forever
    if touching Neo-cat ? then
      change score by 1
      wait 0.5 secs
    if score > 29 then
      hide
      broadcast win and wait
      stop all
  
```

19

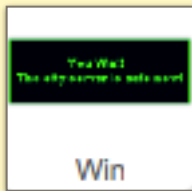
Program a script to **create lives for Scratchy** AND **broadcast the lose screen** if you run out of lives

```

when I receive start
  set chance to 5
  wait 0.5 secs
  forever
    if touching Server ? then
      change chance by -1
      broadcast Oh
      wait 0.5 secs
    if chance < 1 then
      hide
      broadcast lose and wait
  
```

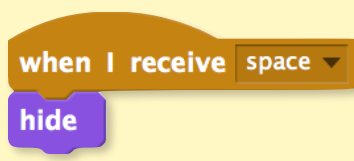
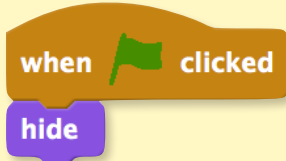
20

Click "Win" Sprite



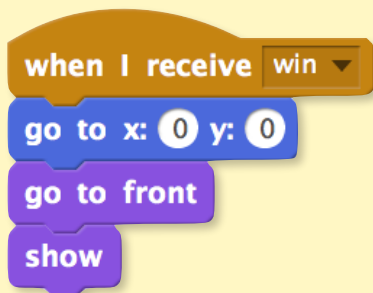
21

Hide the "Win" Sprite AND keep it hidden during the game



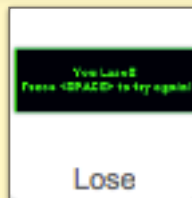
22

Program the "Win" sprite to appear if it receives the win message



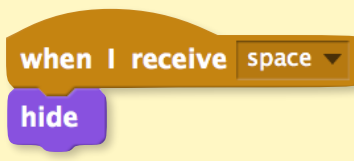
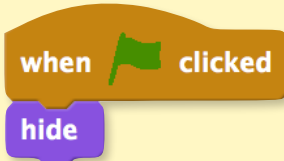
23

Click "Lose" Sprite



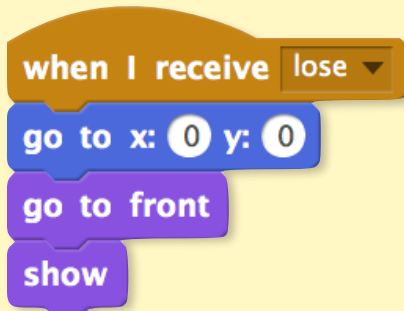
24

Hide the "Lose" Sprite AND keep it hidden during the game



25

Program the "Lose" sprite to appear if it receives the lose message



You just created a Virus, now go Save Hong Kong from it!!!!