Shooting cans

Try to shoot down the cans with a lightning as many times as possible



Shooting cans

Aim at the can. Click the mouse button to shoot a lightning at the can

When you hit the can, then you receive one point.

Within 60 seconds hit as many cans as possible.

Preparations

You will need for the game:

- a can,
- Ong Pood
- something to aim with,
- a wizard and a lightning
- and a cool background.



Pick the sprites from the library or draw them yourself.



When clicking on the green flag, we set the time, velocity, points and much more

```
Data

More Blocks

When clicked

set time ▼ to 60

show variable falling speed ▼

show variable falling speed ▼

show variable falling speed ▼

time

velocity

velocity

velocity

velocity

velocity
```

Then we set the countdown clock that goes from 60,59,58,57...to 0 (Game Over)

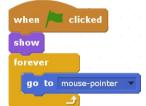
```
repeat 60

wait 1 secs

change time v by -1

broadcast GameOver v
```





The targetting scope follows the mouse pointer

Here we go!





Click on the green flag and the targetting scope will follow the mouse pointer in all directions.

Programming



when this sprite clicked broadcast shooting

when I receive GameOver
hide

stop other scripts in sprite

When the game is over, everything stops





```
when clicked
hide
go to x: -200 y: -144
go to front
show
```

We are putting the wizard in the corner of the screen

```
when I receive shooting v
show
go to x: 200 y: -156
point towards mouse-pointer v
```

direction

The lightning starts at wizard's position and moves towards pointer

When we miss the can, the lightning moves to the edge. When the lightning hits the can, we send a message.

set shooting direction

```
repeat until touching edge ?

if touching can ? then

broadcast hit 
hide

go to x: 2200 y: 156

point in direction 0

stop this script 
else

move 15 steps
```



When the lightning misses the target, it goes back to the wizard

```
go to x: 200 y: -156
point in direction 0 •
```

After receiving GameOver message, the game is finished

```
when I receive GameOver 
hide

stop other scripts in sprite
```

Next steps

- The wizard jumps up when the can is hit
- The wizard says "hit"
- The lightning changes to fire when it hits the can
- A music plays or an explosion is heard



First show the can on the screen

```
when 🖊 clicked
show
point in direction 90 🔻
go to x: 3 y: 164
     direction | < 90 | then
  change x by join - direction / 100
     direction > 90 then
              direction / 100
  change x by 🌓
change y by -3
if on edge, bounce
      y position < -150 then
  set y to -120
  change points v by -1
```

The can bounces around. Over and over again.

Hahaha, 1 point less when the can hits the floor

Yuhuiii, we hit the can. This gives us 1 point.

The can hops when it gets hit.

```
Dog Food
```

CoderDojo

Zürich

```
when I receive hit v
change points v by 1

point in direction pick random 1 to 360

set y to y position + 100

change x by pick random 50 to 50

if direction < 90 then

change x by join direction / 50

if direction > 90 then
```

```
when I receive GameOver
hide
stop other scripts in sprite
```

When receiving GameOver message, the game is finished

Next steps

- Change points or speed
- Let the wizard move around
- Sometimes the can is small and sometimes big

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