Penguin Battle project guide

Blue Penguin:

```
when / clicked
                            set size to 40 %
                            go to x: -176 y: 139
                            point in direction 90▼
                              if touching color 2 then
                               change y by -2
when w key pressed
                                                                            when I receive blue penguin hit 🔻
when a ▼ key pressed
change x by -2
                                    when I receive blue penguin hit
                                                                            repeat 3
                                                                              repeat 18
turn (* 20 degrees
                                    say Ouch! for 2 secs
when d ▼ key pressed
change x by 2
when q ▼ key pressed
turn 🖹 5 degrees
when e v key pressed
turn (4 5 degrees
 when s v key pressed
  broadcast shoot blue 🔻
```

Red penguin (use drag and drop to copy over most of the code from the blue penguin):

```
when / clicked
                                            when i v key pressed
set size to 40 %
                                            change y by 10
go to x: 207 y: -88
point in direction 90▼
                                            when j v key pressed
    touching color ? then
                                            change x by -2
   change y by 1
   change y by -2
                                            when 🔽 key pressed
                                            change x by 2
                                              when u v key pressed
                                              turn 🖹 5 degrees
     when I receive red penguin hit 🔻
     say Ouch! for 2 secs
                                              when o v key pressed
                                              turn (* 5 degrees
          when I receive red penguin hit
           repeat 3
             repeat 18
              turn (* 20 degrees
                                              when k v key pressed
                                              broadcast shoot red 🔻
```

Blue seed:

```
when 🖊 clicked
hide
set size to 20 %
when I receive shoot blue
go to blue penguin ▼
point in direction direction of blue penguin
switch costume to normal v
go to front
forever
move 5 steps
  if touching color ? then
   switch costume to explode
    stamp
   hide
   stop this script ▼
  if touching red penguin ▼ ? then
   broadcast red penguin hit ▼
   stop this script ▼
  if touching edge ▼? then
   hide
    stop this script ▼
         <u>+</u>
```

Red seed (use drag and drop to copy most of the code from the blue seed):

```
when 🖊 clicked
                                                                                                                       x: -149
y: 163
set size to 20 %
when I receive shoot red
go to red penguin ▼
point in direction direction of red penguin + 180
switch costume to normal v
go to front
show
 move 5 steps
  if touching color ? then
    switch costume to explode ▼
    stop this script ▼
  if touching blue penguin ▼ ? then
    broadcast blue penguin hit ▼
    stop this script ▼
  if touching edge ▼ ? then
    stop this script ▼
```

Challenges

- make the seeds spin as they fly
- when seeds touch, they annihilate
- keep score
- use sensing for keys
- make super seed that blasts through walls and keeps going (you have to touch something to get the super seed power)
- make a version where the penguins are always moving in the direction they are facing, to simplify the controls