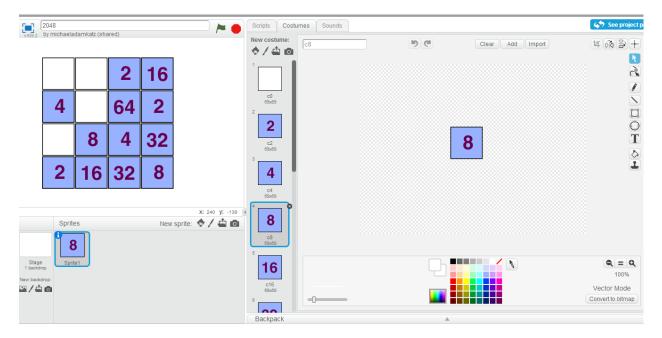
The costumes are named c0 (the white one), c2, c4, c8, and so on, up to c2048. You can make the different costumes different colors as in the real game.



Six regular variables and one list variable.



```
define AddRandom v
when R clicked
                                                          x: 70
hide
                       forever
delete all of board ▼
                         set col v to pick random 1 to 4
repeat 16
                         set row to pick random 1 to 4
 add 0 to board ▼
                         set did it ▼ to 0
add 0 to board ▼
                         TrySetRandom col row v
AddRandom 2
                         if did it = 1 then
AddRandom 2
                          stop this script ▼
DrawBoard
                               4
define TrySetRandom C r v
GetBoardValue C
if value = 0 then
  SetBoardValue c r v
  set did it • to 1
```

```
define GetBoardValue c r

set value v to item (c - 1 * 4 + r of board v

define SetBoardValue c r v

replace item (c - 1 * 4 + r of board v with v
```

```
when up arrow ▼ key pressed
                             when left arrow ▼ key pressed
define TryMove dx dy
                                                           TryMove 0 -1
                              TryMove -1 0
set did any ▼ to 0
                              when right arrow ▼ key pressed
forever
                                                            when down arrow ▼ key pressed
 set did it ▼ to 0
                                                            TryMove 0 1
                              TryMove 1 0
 TryMoveOnce dx dy
  if did it = 0 then
   if did any = 1 then
     AddRandom pick random 1 to 2 * 2
    DrawBoard
    stop this script ▼
  set did any ▼ to 1
     (£
```

```
define TryMoveOnce dx dy

set col v to 1

repeat 4

set row v to 1

repeat 4

TryMoveOnceAtLocation col row dx dy

change row v by 1

change col v by 1
```

```
define TryMoveOnceAtLocation C r dx dy
GetBoardValue C
if value = 0 then
stop this script ▼
if c + dx < 1 or c + dx > 4 or r + dy < 1 or r + dy > 4 then
 stop this script ▼
set value1 ▼ to value
GetBoardValue c + dx r + dy
if value = 0 then
 SetBoardValue c r 0
 SetBoardValue c + dx r + dy value1
 set did it ▼ to 1
 if value > 0 and value = value1 then
  SetBoardValue 🕝 🕝 🕕
   SetBoardValue c + dx r + dy value1 * -2
   set did it v to 1
```

```
define DrawBoard
clear
set col v to 1
repeat 4
 set row ▼ to 1
 repeat 4
   go to x: -210 + col * 70 y: 160 - row * 70
   switch costume to c0 ▼
   stamp
   GetBoardValue col row
   set value ▼ to abs ▼ of value
   SetBoardValue col row value
   if not value = 0 then
     switch costume to join c value
     stamp
   change row ▼ by 1
  change col ▼ by 1
```