setup

go
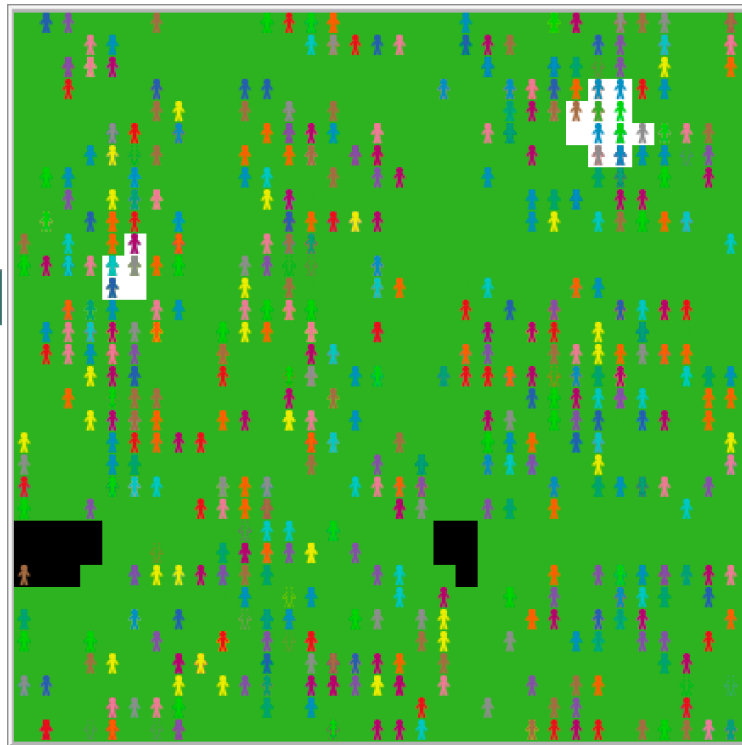
number                    809

smoothness              10

high          low
0             0

diff
0

```
patches-own [elevation]
globals [high low diff]

to setup
  clear-all
  setup-patches
  setup-turtles
  reset-ticks
end

to setup-patches
  ask patches [
    set elevation random 10000
  ]

  repeat smoothness [
    diffuse elevation 1
  ]

  ask patches [
    if elevation >= 1000 and elevation <= 9000 [
      set pcolor green
    ]
  ]

  set high max [elevation] of patches
  set low min [elevation] of patches
  set diff high - low

  ask patches [
    if elevation > high - 100 [
      set pcolor white
    ]
    if elevation < low + 100 [
      set pcolor black
    ]
  ]
end

to setup-turtles
  set-default-shape turtles "person"

  create-turtles number [
    move-to one-of patches
  ]
end


to go
  ask turtles [
    uphill elevation
  ]

end
```