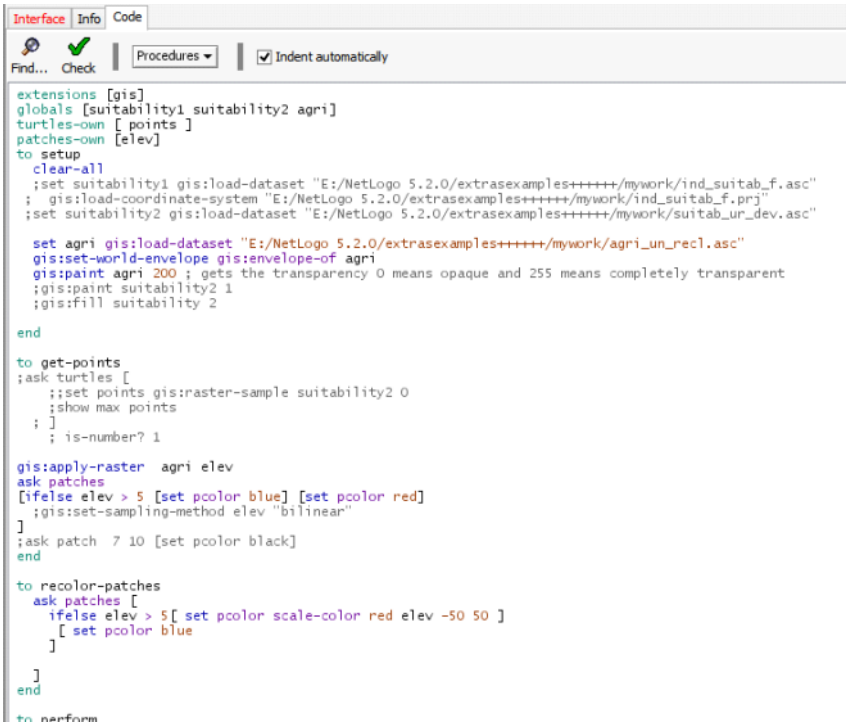
PROGRESS

Friday, May 1, 2015 4:37 PM

1 WITH CODE




```
extensions [gis]
globals [suitability1 suitability2 agri]
turtles-own [ points ]
patches-own [elev]
to setup
  clear-all
  ;set suitability1 gis:load-dataset "E:/NetLogo 5.2.0/extrasexamples++++++/mywork/ind_suitab_f.asc"
 ;  gis:load-coordinate-system "E:/NetLogo 5.2.0/extrasexamples++++++/mywork/ind_suitab_f.prj"
 ;set suitability2 gis:load-dataset "E:/NetLogo 5.2.0/extrasexamples++++++/mywork/suitab_ur_dev.asc"

  set agri gis:load-dataset "E:/NetLogo 5.2.0/extrasexamples++++++/mywork/agri_un_recl.asc"
  gis:set-world-envelope gis:envelope-of agri
  gis:paint agri 200 ; gets the transparency 0 means opaque and 255 means completely transparent
  ;gis:paint suitability2 1
  ;gis:fill suitability 2

end

to get-points
;ask turtles [
    ;;set points gis:raster-sample suitability2 0
    ;show max points
  ; ]
    ; is-number? 1

gis:apply-raster  agri elev
ask patches
[ifelse elev > 5 [set pcolor blue] [set pcolor red]
  ;gis:set-sampling-method elev "bilinear"
]
;ask patch  7 10 [set pcolor black]
end

to recolor-patches
  ask patches [
    ifelse elev > 5[ set pcolor scale-color red elev -50 50 ]
     [ set pcolor blue
    ]

  ]
end

to perform
```

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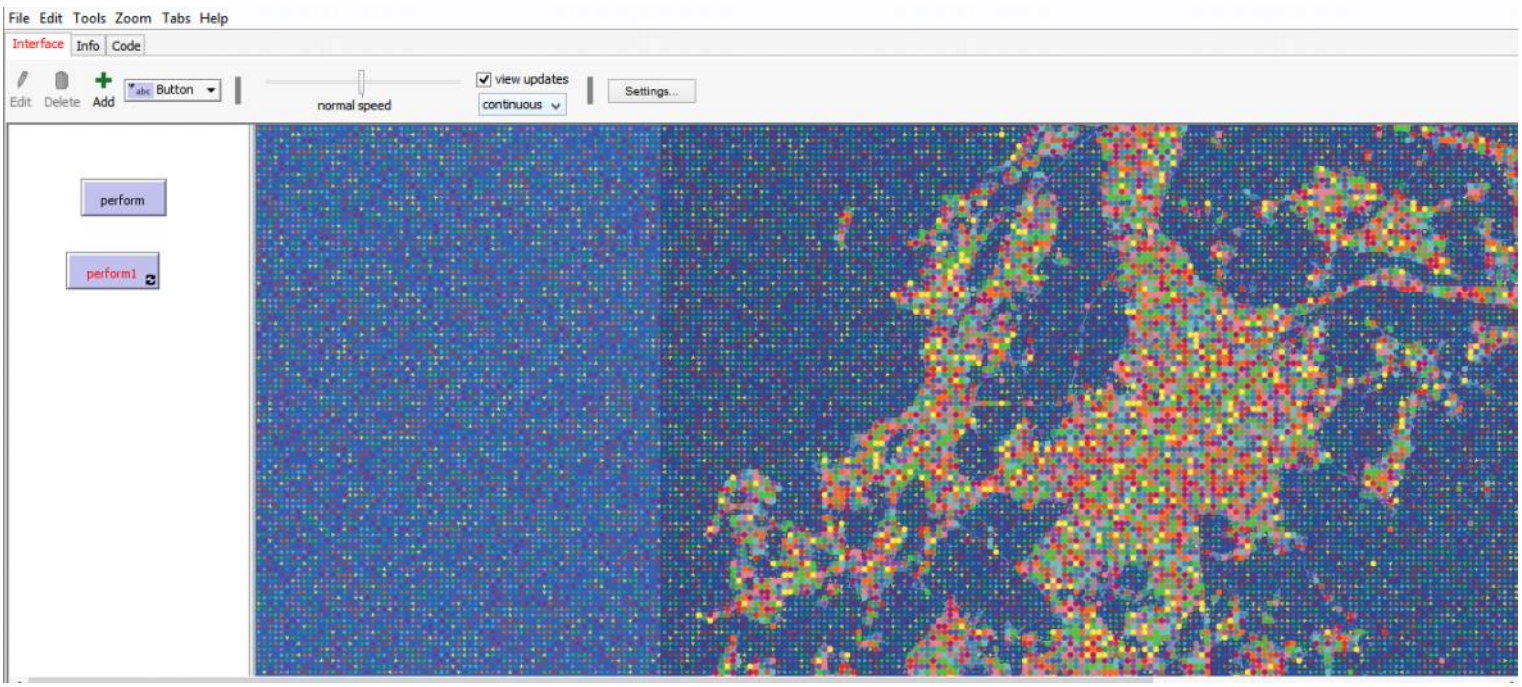

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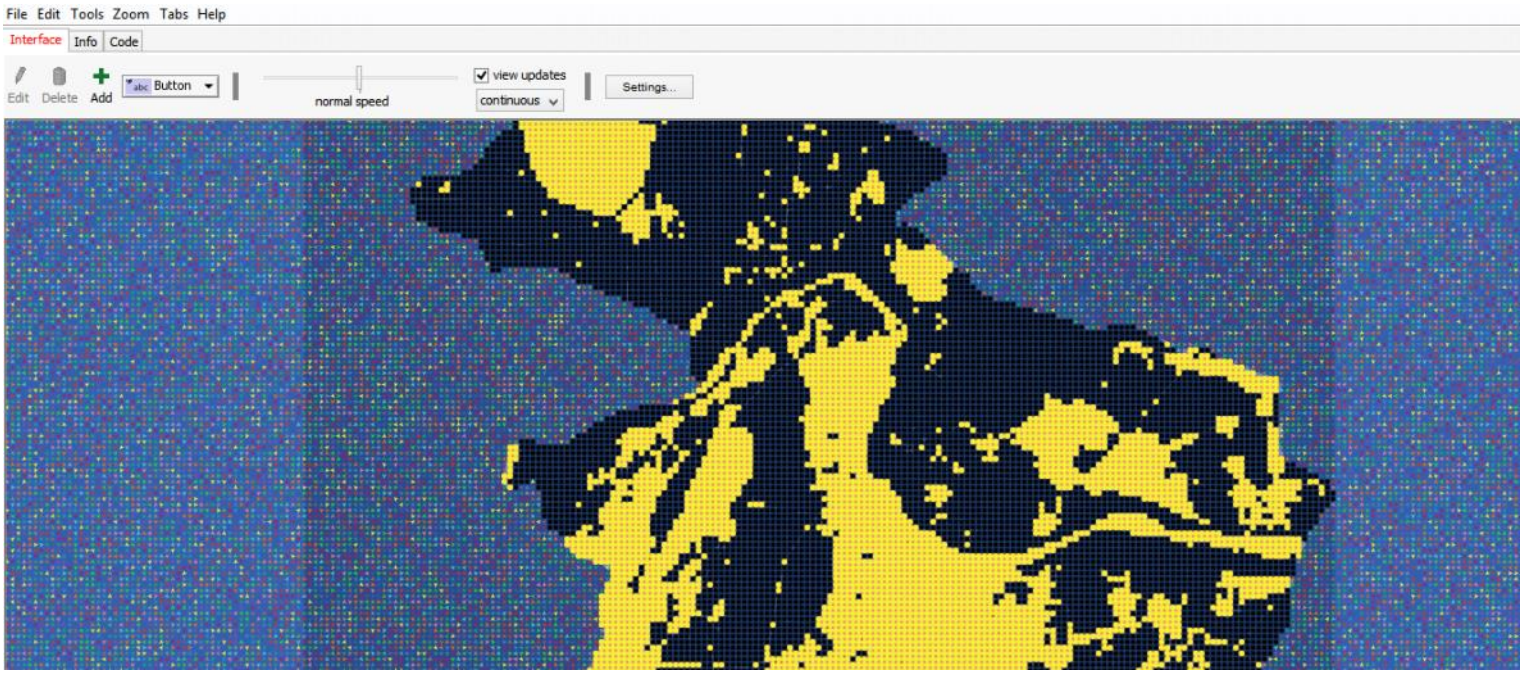

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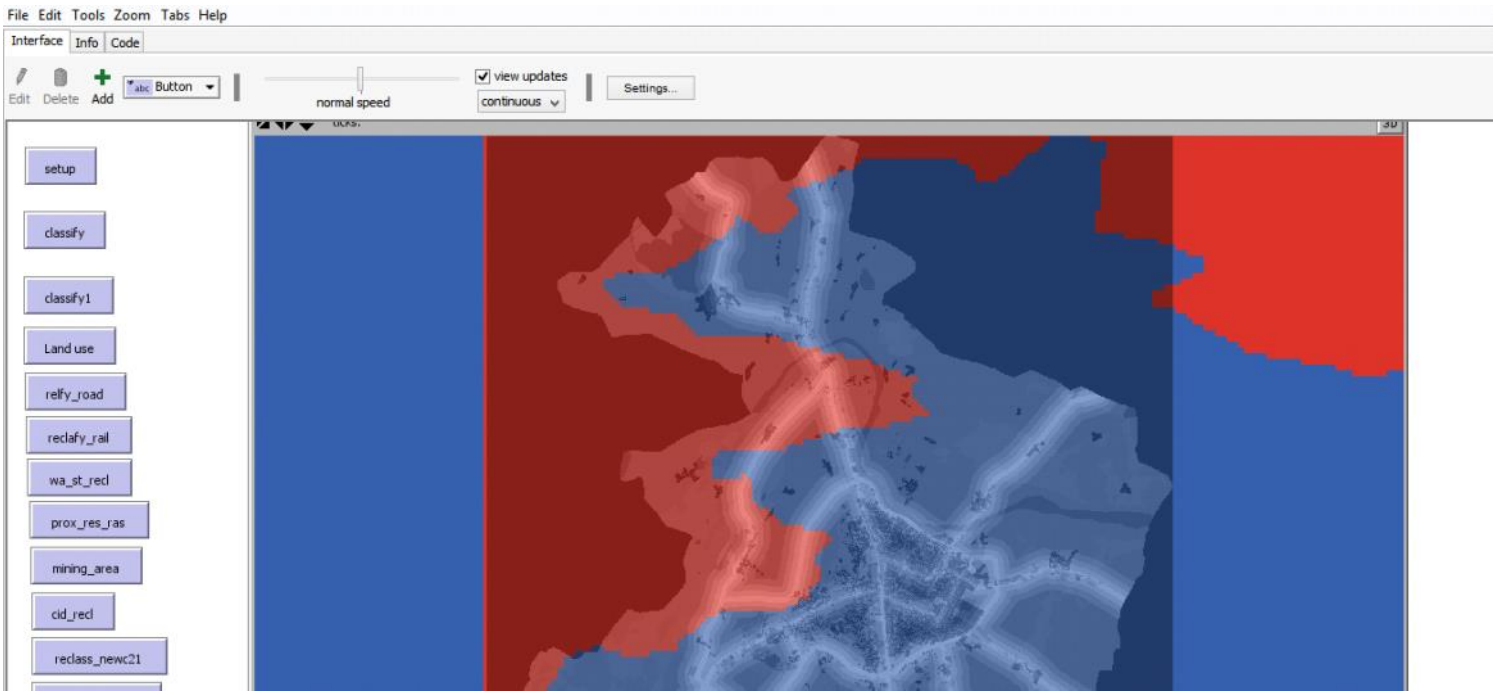

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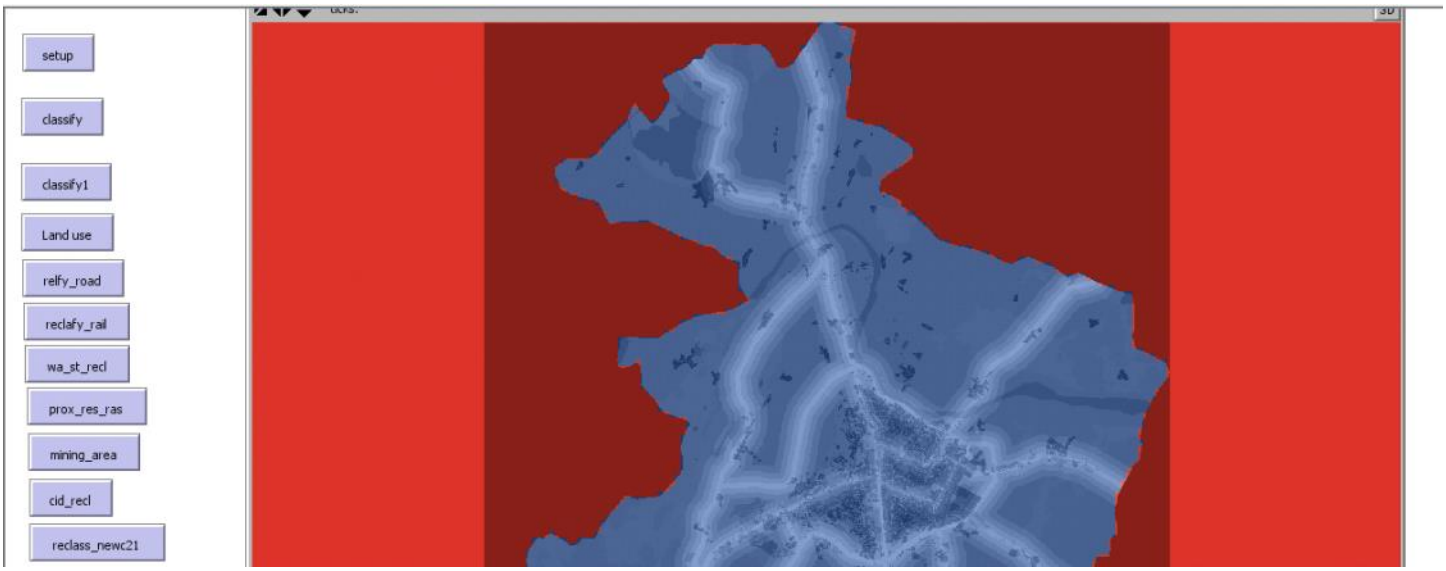
THE GREAT ERA OF MISMATCHING NEW PATCHES

SOLVED



WITH CODE

```
globals [lu one two three four five six sevenone seventwo eight]
turtles-own [lu_t ]
patches-own [lu_p one_p two_p three_p four_p five_p six_p sevenone_p seventwo_p eight_p]
to setup
  clear-all
  set lu gis:load-dataset "E:/NetLogo 5.2.0/extrasexamples++++++/mywork/lu.asc"
  ;gis:set-world-envelope gis:envelope-of lu
  set one gis:load-dataset "E:/NetLogo 5.2.0/extrasexamples++++++/mywork/relfy_road.asc"
  gis:set-world-envelope (gis:envelope-union-of (gis:envelope-of lu)
                                                (gis:envelope-of one))
                                               ;  (gis:envelope-of two)
                                                ; (gis:envelope-of three)
                                               ;  (gis:envelope-of four)
                                                ; (gis:envelope-of five)
```

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```
to relfy_road
  ;set one gis:load-dataset "E:/NetLogo 5.2.0/extrasexamples++++++/mywork/relfy_road.asc"
  gis:paint one 199
  ;gis:set-world-envelope gis:envelope-of lu
  ;set one gis:create-raster gis:width-of lu gis:height-of lu gis:envelope-of lu
  gis:apply-raster one one_p
  ask patches [
  ifelse (one_p <= 0) or (one_p >= 0)
 [ set pcolor blue ]
 [ set pcolor red ]
```

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PERFORMING SUITABILITY

CODE NOT WORKING

WORKED

Find... Check | Procedures | Indent automatically

```
   set suitab gis:create-raster gis:width-of lu gis:height-of lu gis:envelope-of lu

   ;gis:apply-raster suitab suitab_p

   ;ask patches  [

;suitab_p = one_p + two_p + three_p + four_p + five_p + six_p + sevenone_p + eight_p
 ; ]
;gis:paint suitab_p 189

let x 0
repeat (gis:width-of lu)
[ let y 0
  repeat (gis:height-of lu)

  [ ;ask patches
    let go gis:raster-value one x y
    let gt gis:raster-value two x y
    let gth gis:raster-value three x y
    let gf gis:raster-value four x y
    let gfi gis:raster-value five x y
    let gs gis:raster-value six x y
    let gseo gis:raster-value sevenone x y
    let gset gis:raster-value seventwo x y
    let ge gis:raster-value eight x y
    ;let s1 gis:raster-value suitab x y
    ;if ((go <= 0) or (go >= 0)) and ((gt <= 0) or (gt >= 0)) and
     set s1 (s1 + (go + gt + gth + gf + gfi + gs + gseo + gset + ge))
    gis:set-raster-value suitab x y s1
    ] ]


gis:apply-raster suitab suitab_p


;ask patches [
;  ifelse (suitab_p <= 0) or (suitab_p >= 0)
; [ set pcolor blue ]
; [ set pcolor red ] ]

ask patches [
  if suitab_p


gis:paint suitab 200
```

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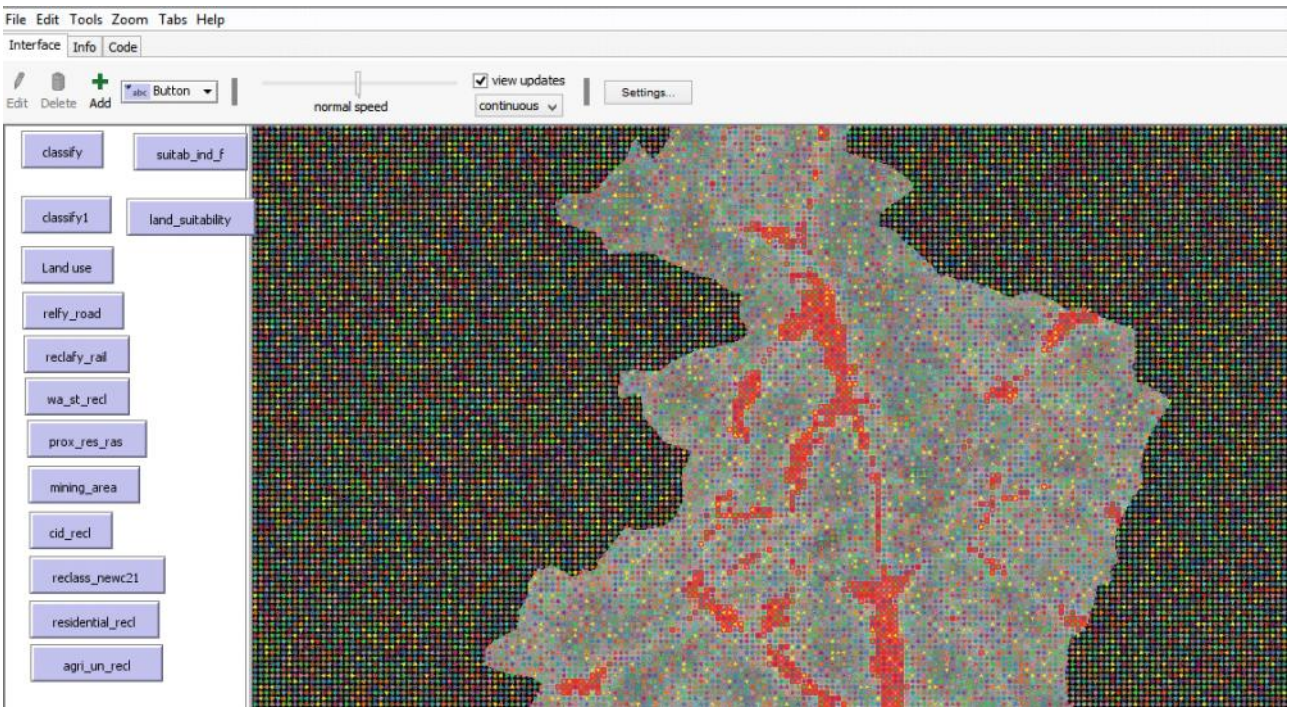

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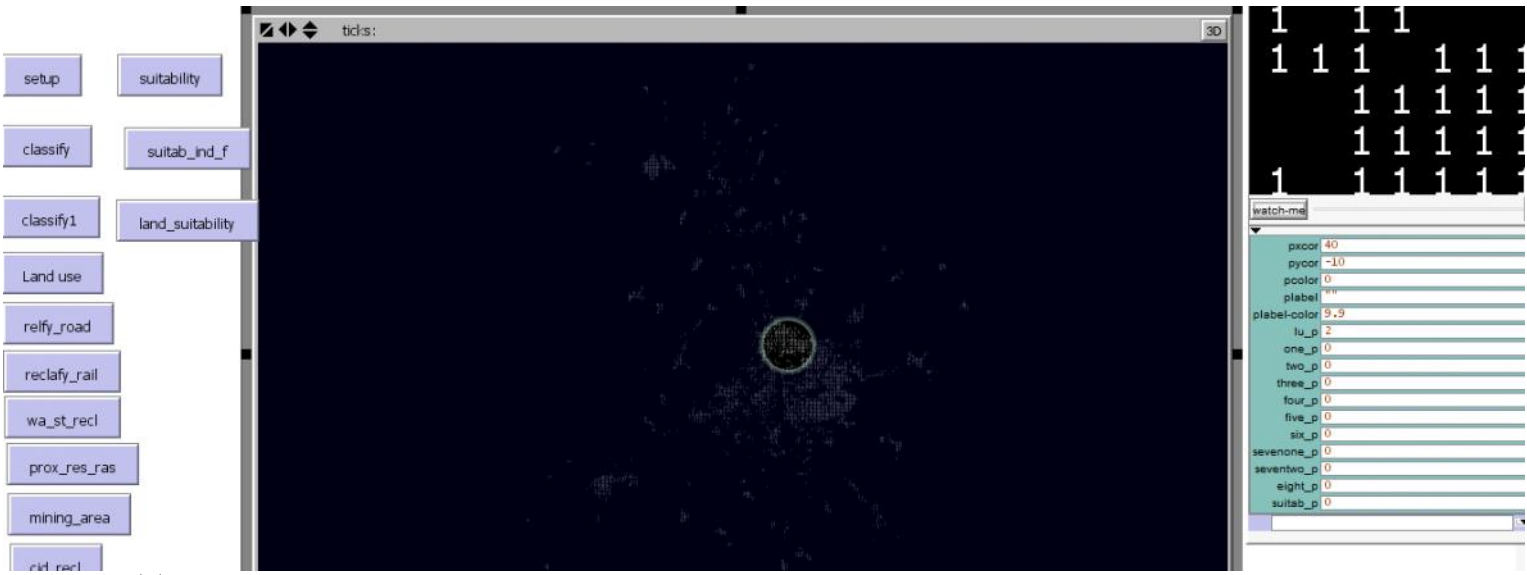
```
let x 0
repeat (gis:width-of one)
[ let y 0
  repeat (gis:height-of sevenone)

  [ ;ask patches
    let go gis:raster-value one x y
    let gt gis:raster-value two x y
    let gth gis:raster-value three x y
    let gf gis:raster-value four x y
    let gfi gis:raster-value five x y
    let gs gis:raster-value six x y
    let gseo gis:raster-value sevenone x y
    ;let gset gis:raster-value seventwo x y
    let ge gis:raster-value eight x y
    ;let s1 gis:raster-value suitab x y
    ;if ((go <= 0) or (go >= 0)) and ((gt <= 0) or (gt >= 0)) and
    let s2 (go * 0.2034) + (gt * 0.1767) + (gth * 0.0774) + (gf * 0.1314) +  (gfi * 0.1108) + (gs *  0.0668) + (ge * 0.0642) + (gseo * 0.1568) ;+ gset + (gfi * 0.1108)
    ;set s1 s1 + (go + gt + gth + gf + gfi + gs  + ge) ;gseo + gset
    set s1 s2

    gis:set-raster-value suitab x y s1

  set y y + 1 ]
 set x x + 1 ]

;gis:apply-raster suitab suitab_p

gis:paint suitab 1

;ask patches [
;  ifelse suitab_p > 0.0536 ;and (suitab_p < 0.1)
; [ set pcolor blue ]
; [ set pcolor red ] ]

;ask patches [
;  ifelse (suitab_p = )  [set pcolor red ]
;    [set pcolor  blue ]
```



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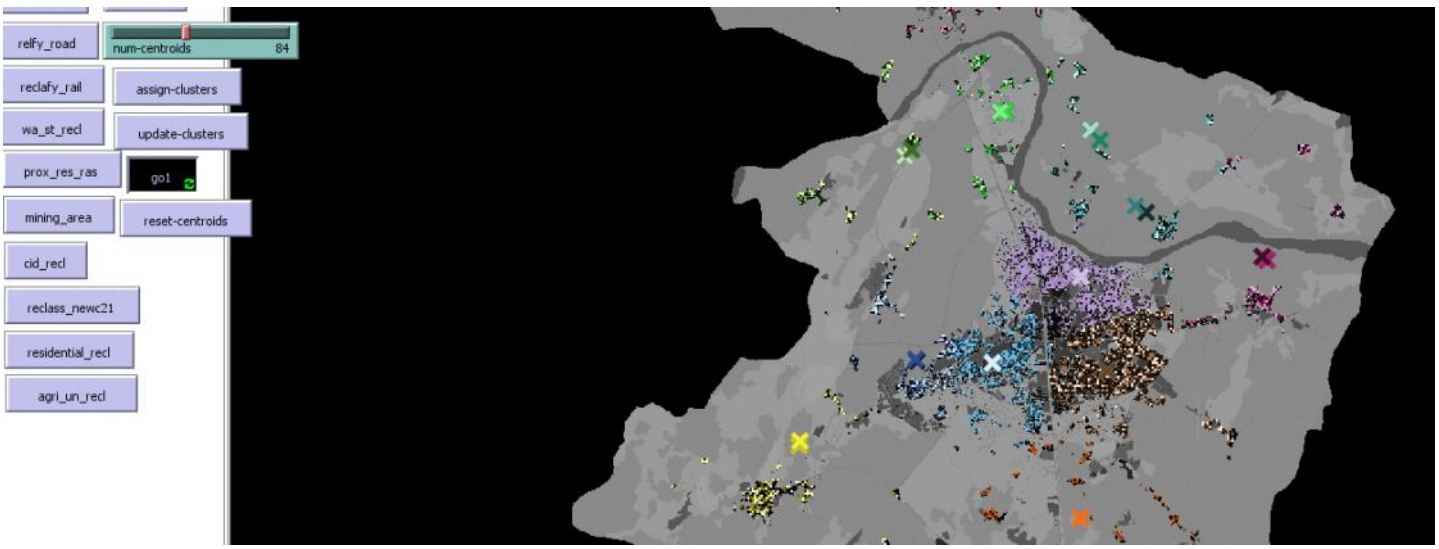

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NOTE: Rulesets started to work fine, but then processing went slower and application went crashing now and then.