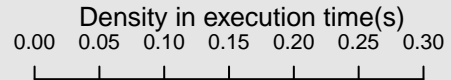


./scripts/C.R



```
1  generate.patches <--
2  function(environment.raster, n.patches = 50, patch.size = 10)
3  {
4    dummy.raster <-- environment.raster
5    dummy.raster[!is.na(dummy.raster)] <- 1
6    n.cols <- ncol(dummy.raster)
7    n.rows <- nrow(dummy.raster)
8
9    # Get the environment matrix
10   env.m <- getValues(dummy.raster, format = "matrix")
11
12   # Select the number of patches
13   # n.patches <- 50
14   # Define the starting points for each patch
15   starts <- sample(x = which(!is.na(env.m)), size = n.patches, replace = FALSE)
16   # Select patch size
17   # patch.size <- sample(5:20, n.patches, replace = T)
18   patch.s <- patch.size
19   test <- lapply(starts, FUN = function(s1, x1, patch.s1)
20   {
21     expand(start = s1, x = x1, n.size = patch.s1)
22   }, x1 = env.m, patch.s1 = patch.s)
23   test2 <- rowSums(matrix(unlist(test), ncol = length(test), byrow = FALSE), na.rm = T)
24   ids <- which(test2 == 2)
25
26   # Attribute all patch values in the environment matrix (NA = sea, 0 = no patch, 1 = patch)
27   env.m[!is.na(env.m)] <- 0
28   env.m[ids] <- 1
29
30   patch.raster <- setValues(dummy.raster,
31                             env.m)
32
33   return(patch.raster)
34 }
```