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distinct colors (at least 11) for a non-ggplot cluster plot



Ok, I think, this is a challenge! I spent hours on this and want to give this a last try as I was hitting a road block.

I am plotting a cluster plot that looks something like this (I just realized that I can't post an image. So, here is my dataframe and command that I am using).

Data frame for reproducibility:

```
structure(list(PC1 = c(2.2256, 1.4809, -0.26, 2.2323, -2.9459)
-0.8887, -4.4638, -2.4257, -0.0317, 2.6486, 0.152, -1.2285, -0.1575, 0.2191, -2.739, -2.1619, -3.0452, -0.5263, -2.6021, 2.4344, -3.3099,
-1.6198, -1.5211, 1.8298, 0.3087, -1.5687, -4.6785, -0.3389,
-0.1651, -0.6272, -1.705, -1.5658, -2.1851, 9.689, -2.1915, 0.2614,
-2.7237, -3.2731, 3.4681, 0.3675, 3.5045, 10.9197, -1.1395, -0.4404,
1.2303, -0.4029, 1.0831, 1.3574, 0.7774, -0.0421, -2.6289, 1.2752,
4.6786, -3.3749, -1.7164, 0.8981, -4.7529, -0.4039, -1.8553,
1.1387, -1.648, 1.2547, -1.1931, -0.926, -0.8275, -0.4611, 0.553
-3.5188, -0.7385, -3.5622, 1.8351, -1.5409, 0.6458, 2.8193, -1.0229,
1.3415, 2.1953, -1.0201, -0.3953, -0.69, 0.0324, -2.6105, -2.5362, 2.9971, -0.3935, -0.1593, -1.0181, -1.7703, 2.5865, 0.2388, -2.5744,
-0.977, 0.8738, -1.282, -0.3212, -4.5051, 2.5541, 0.939, 0.2235,
-4.0283, -0.6163, -0.7022, 3.1862, -4.1619, 0.14,
                                                                -1.7597, 3.1879
0.9497, -0.4271, -0.7919, -0.0288, -3.8525, -3.9967, 2.075, 1.7007, 11.1462, 2.7227, -1.8918, -2.3526, 11.5197, -0.2416, 2.8507,
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9.6771, 0.2056, -0.0926, 0.0071, -2.5723, 1.2282, -2.7776,
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6.6634, -0.4726, 4.0705, 0.1674), PC4 = c(-1.6809, 2.227, -0.075,
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     1L, 2L, 3L, 2L, 3L, 3L, 5L, 4L, 2L, 2L, 4L, 5L, 2L, 5L, 5L,
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     2L, 3L, 2L, 1L, 3L, 3L, 3L, 3L, 3L, 2L, 4L, 3L, 4L, 3L, 1L,
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     1L, 2L, 3L, 4L, 3L, 2L, 1L, 3L, 4L, 3L, 2L, 3L, 4L, 1L, 2L,
     5L, 4L, 3L, 3L, 3L, 3L, 1L, 2L, 2L, 4L, 4L, 1L, 3L, 5L, 5L,
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     1L, 3L, 4L, 2L, 5L, 4L, 2L, 4L, 3L, 3L, 2L, 2L, 5L, 3L, 2L,
     3L, 4L, 1L, 3L, 1L, 3L, 3L, 5L, 2L, 3L, 4L, 4L, 5L, 3L, 2L,
     1L, 3L, 5L, 3L, 2L, 4L, 4L, 2L, 2L, 3L, 3L, 4L, 1L, 3L, 5L,
     4L, 3L, 2L, 3L, 2L, 3L, 2L, 4L, 3L, 4L, 1L, 3L, 3L, 2L, 4L,
     2L, 2L, 4L, 4L, 4L, 1L, 2L, 2L, 4L, 3L, 5L, 2L, 1L, 2L, 4L,
     1L, 4L, 3L, 4L, 2L, 2L, 1L, 1L, 4L, 2L, 1L, 2L, 4L, 5L, 4L,
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```

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      10L, 3L, 11L, 3L, 10L, 14L, 11L, 14L, 14L, 1L, 2L, 14L, 11L, 14L, 11L, 14L, 3L, 6L, 1L, 10L, 2L, 11L, 14L, 10L, 14L, 3L,
       10L, 6L, 4L, 3L, 14L, 3L, 3L, 11L, 3L, 1L, 14L, 3L, 4L, 3L,
       10L, 2L, 10L, 11L, 3L, 1L, 1L, 3L, 14L, 10L, 14L, 4L, 11L,
       7L, 6L, 10L, 11L, 7L, 14L, 1L, 14L, 3L, 6L, 10L, 3L, 11L,
      14L, 14L, 14L, 14L, 14L, 6L, 3L, 14L, 14L, 10L, 3L, 11L, 11L, 4L, 3L, 10L, 10L, 14L, 14L, 3L, 3L, 14L, 6L
       11L, 14L, 14L, 11L, 3L, 11L, 1L, 1L, 12L, 6L, 14L, 14L, 1L,
       3L, 14L, 1L, 14L, 3L, 11L, 14L, 3L, 11L, 10L, 14L, 6L, 11L,
       10L, 4L, 1L, 11L, 14L, 14L, 3L, 14L, 7L, 14L, 11L, 11L, 7L
      14L, 11L, 4L, 14L, 10L, 14L, 10L, 4L, 14L, 14L, 3L, 1L, 14L, 14L, 4L, 10L, 3L, 10L, 6L, 14L, 12L, 11L, 14L, 14L, 11L,
       11L, 6L, 14L, 14L, 10L, 11L, 4L, 14L, 2L, 14L, 14L, 11L,
       14L, 3L, 14L, 1L, 14L, 14L, 14L, 3L, 14L, 11L, 3L, 14L,
      2L, 6L, 1L, 3L, 11L, 14L, 14L, 14L, 11L, 10L, 3L, 14L, 10L, 14L, 6L, 14L, 11L, 3L, 10L, 10L, 14L, 3L, 1L, 3L, 14L, 12L,
       14L, 14L, 3L, 14L, 11L, 14L, 14L, 10L, 14L, 14L, 6L, 11L,
14L, 10L, 10L, 3L, 3L, 11L, 1L, 3L, 14L, 14L, 4L, 3L, 14L,
       12L, 3L, 12L, 11L, 14L, 14L, 14L, 10L, 1L, 11L, 11L, 3L,
 344L, 579L, 112L, 940L, 236L, 708L, 246L, 339L, 234L, 253L, 854L,
 661L, 643L, 782L, 942L, 723L, 998L, 354L, 226L, 832L, 244L, 659L, 180L, 545L, 94L, 610L, 804L, 147L, 485L, 80L, 946L, 656L, 631L,
 989L, 800L, 498L, 35L, 901L, 459L, 248L, 697L, 590L, 169L, 72L,
 670L, 497L, 48L, 749L, 220L, 979L, 319L, 469L, 959L, 364L, 928L,
 213L, 947L, 819L, 404L, 460L, 605L, 430L, 71L, 927L, 507L, 984L, 833L, 562L, 397L, 40L, 780L, 702L, 818L, 853L, 426L, 688L, 474L, 944L, 774L, 39L, 678L, 573L, 464L, 494L, 885L, 803L, 470L, 437L,
 264L, 925L, 565L, 691L, 19L, 420L, 2L, 398L, 503L, 204L, 50L,
 47L, 458L, 945L, 808L, 399L, 505L, 690L, 369L, 130L, 991L, 873L,
 735L, 886L, 382L, 687L, 127L, 888L, 517L, 794L, 613L, 105L, 10L,
 170L, 549L, 609L, 976L, 663L, 684L, 1003L, 683L, 628L, 934L, 415L, 273L, 744L, 669L, 274L, 21L, 87L, 346L, 317L, 373L, 396L
 113L, 297L, 475L, 768L, 910L, 318L, 111L, 796L, 428L, 903L, 842L,
 225L, 540L, 938L, 413L, 254L, 539L, 38L, 343L, 654L, 219L, 107L,
 644L, 139L, 51L, 709L, 277L, 240L, 33L, 705L, 268L, 14L, 142L, 570L, 922L, 491L, 11L, 929L, 741L, 629L, 331L, 988L, 118L, 20L, 486L, 78L, 569L, 392L, 859L, 5L, 224L, 201L, 971L, 57L, 650L,
 381L, 732L, 836L, 577L, 309L, 16L, 982L, 429L, 183L, 936L, 230L,
 165L, 74L, 969L, 444L, 986L, 912L, 863L, 159L, 805L, 933L, 616L,
 771L, 133L, 447L, 407L, 33SL, 789L, 422L, 964L, 716L, 301L, 93L, 594L, 83SL, 999L, 522L, 121L, 611L, 13SL, 751L, 78SL, 560L, 581L, 664L, 640L, 348L, 673L, 914L, 82L, 179L, 839L, 638L, 134L, 621L,
 860L, 665L, 488L, 733L, 119L, 380L, 314L, 288L, 512L, 493L, 758L,
 76L, 626L, 473L, 376L, 950L, 202L, 43L, 831L, 954L, 4L, 852L,
 375L, 152L, 887L, 862L, 879L, 525L, 351L, 270L, 229L, 844L, 330L,
 783L, 869L, 759L, 431L, 388L, 987L, 974L, 727L, 552L, 911L, 779L), class = "data.frame")
```

command:

```
legend = unique(ctsubset$brgrouptt1),pch=19,
cex=0.7, col=unique(factor(ctsubset$brgroupnum)))
```

The problem I have is with the colors. As you can see the green, red, black are repeated in the legend and I am not able to distinctly visualize the different groups (as encoded by \$groupnum).

The alternatives that I tried but was not successful (because I don't understand them very well) is using (1) color brewer (2) colorRampPalette and (3) grid.raster

All I care is to be able to see the nice distinction of colors in my legend and the plot.



```
edited Apr 3 '13 at 17:12
joran
80.4k 10 154 209
```

```
asked Apr 3 '13 at 17:07
user2105887
5 5
```

1 Thanks for provided data, but where is the function plotcluster ? - joran Apr 3 '13 at 17:13

1 Answer

Change col=factor(ctsubset\$brgroupnum) for 11 values from colors()

You can see the colours with a code I made long time ago:

```
cores <- function() {

par(mar=c(0,0,0,0),mgp=c(0,0,0))
plot(c(0:24),type='n')
c <- 0

mouse <- function(b, x, y) {
    x <- as.integer(x*26)
    y <- as.integer(y*26)
    print(colors()[(x+26*y) %% 657 + 1])
    return()
}
k <- colours()[(1:26^2 - 1) %% 657 + 1]
for (i in 1:26) {
    for (j in 1:26) {
        c <- c+1
        polygon(c(j,j,j-1,j-1),c(i,i-1,i-1,i)-1,col=k[(c-1) %% 657 + 1])
    }
}
getGraphicsEvent('Click on a colour!',onMouseDown=mouse)
}
cores()</pre>
```

You can, also, use rainbow(11).

edited Apr 3 '13 at 17:28

answered Apr 3 '13 at 17:13

Recoster
1,983 3 23

gr8 thanks! I see more options now. BTW, the event handling is not working on my machine when i run the cores(). But can you give an example for how i can automatically map the ctsubset\$brgroupnum to the 11 colors!? because i am plotting the clusters and colors and labels with the rownames as ID, so i don't have to do it manually – user2105887 Apr 3 '13 at 17:51