There was blogged about the [dutchmasters color palettes package](https://edwinth.github.io/blog/dutch-masters/), which was inspired  
by the wonderful [ochRe package](https://github.com/ropenscilabs/ochRe). As  
mentioned I shamelessly copied the package. I replaced the list with character  
vectors containing hex colors and did a find and replace to make it  
dutchmasters instead of ochRe. This was pretty ugly. I realized that when  
we would refactor the ochRe functions, thus creating functions that create the functions, there would no longer be a need to copy-paste and find-and-replace. So that is what I did. I refactored and expanded ochRe’s chore into paletti. (Name chosen because I liked the ring of it).

You grab it, with Library("edwinth/paletti").

**Single palettes**

paletti takes both single palettes (character vectors with hex codes) and  
lists with palettes, like the ochRe and dutchmasters lists. Lets start with  
a single palette, this might be useful when you want your coporate identity  
colors translated into R. Here I just pick some colors found on the [interweb](http://blog.visme.co/website-color-schemes/)

library(paletti)

library(ggplot2)

mycols <- c(

red = "#E27D60",

blue = "#085DCB",

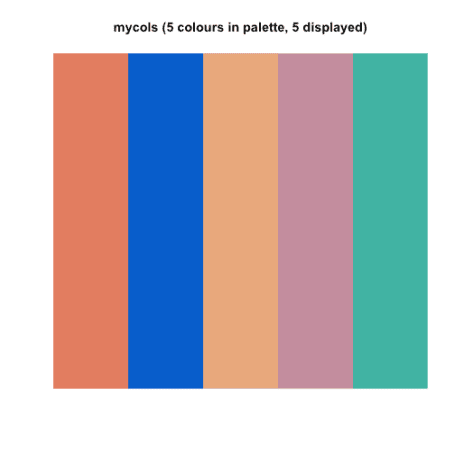
orange = "#E8A87C",

purple = "#C38D9E",

green = "#41B3A3"

)

viz\_palette(mycols)



Now, ochRe provided us with two functions, one two create a ggplot scale for  
colours and to create one for fills. These functions can be created in the  
following fashion

mycols\_fill <- get\_scale\_fill(get\_pal(mycols))

mycols\_color <- get\_scale\_color(get\_pal(mycols))

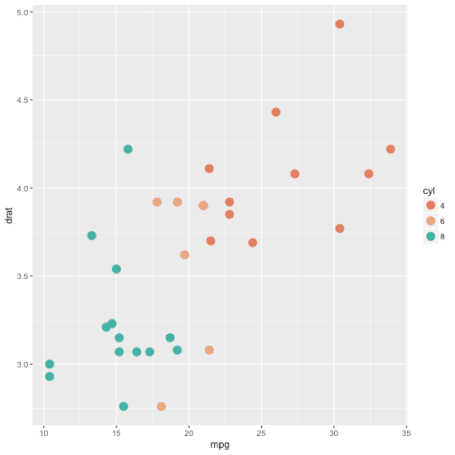
Both now can be used in ggplot

mtcars$cyl <- as.character(mtcars$cyl)

col\_plot <- ggplot(mtcars, aes(mpg, drat, color = cyl)) +

geom\_point(size = 4)

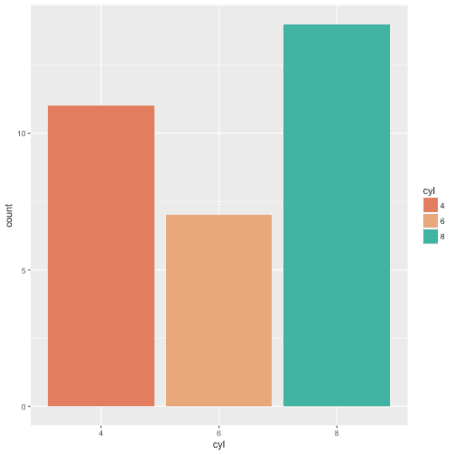
col\_plot + mycols\_color()



fill\_plot <- ggplot(mtcars, aes(cyl, fill = cyl)) +

geom\_bar()

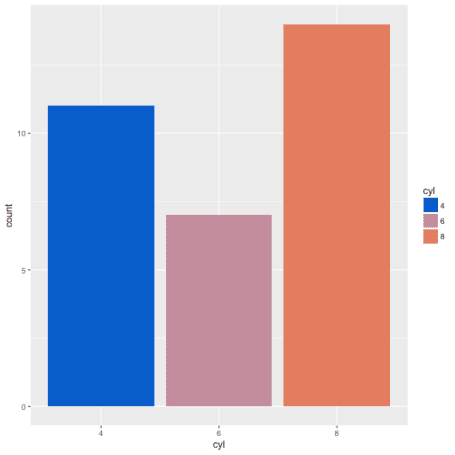
fill\_plot + mycols\_fill()



Now, I said I expanded the ochRe code a bit. The function get\_hex will  
produce a function that will return a function in which you can directly return  
the hex code by typing its unquoted name. Handy if you want an exact color from  
your palette. Prerequisit is that your palette is a named character vector.

mycols\_hex <- get\_hex(mycols)

fill\_plot + scale\_fill\_manual(values = mycols\_hex(blue, purple, red))



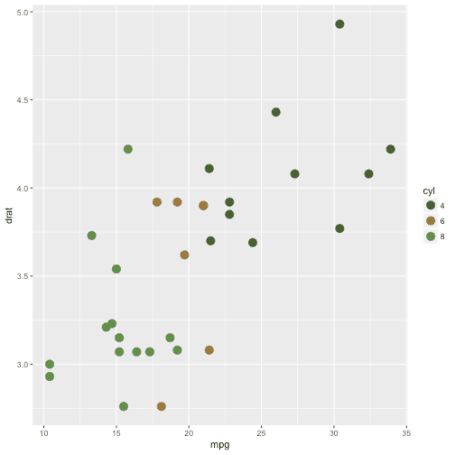
**Multiple palettes in a list**

Both ochRe and dutchmasters offer multiple palettes in a list. The only  
difference from a single palette is that in the returned function you have to  
specify the name of the palette youw want to use. If you don’t, it defaults to  
the first palette in the list.

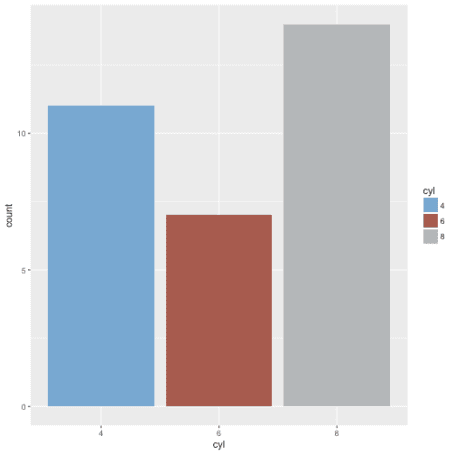
ochRe\_col <- get\_scale\_color(get\_pal(ochre\_palettes))

dutchmasters\_fill <- get\_scale\_fill(get\_pal(dutchmasters))

col\_plot + ochRe\_col("lorikeet")



fill\_plot + dutchmasters\_fill("view\_of\_Delft")

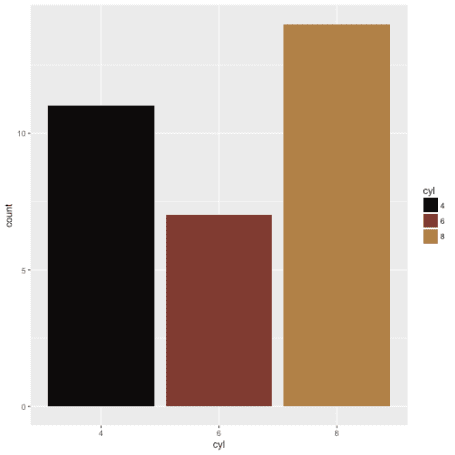


And the same holds for the get\_hex function. You can feed a list with palettes  
as well. Note that the palettes that you are going to call must have named  
elements.

dutchmasters\_hex <- get\_hex(dutchmasters)

fill\_plot + scale\_fill\_manual(values = dutchmasters\_hex("anatomy",

black(cloak), red(muscle), brown(table)))



That’s it, off you go! Add your own color palette(s) and start plotting. Once  
again a major thanks to the ochRe team for the inspiration and the foundations  
on which paletti is built.