## Including charts in RMarkdown

This document is designed to demonstrate how the size of figures can be set in RMarkdown documents. There are two types of content included:

- Base R plots
- ggplot2 charts

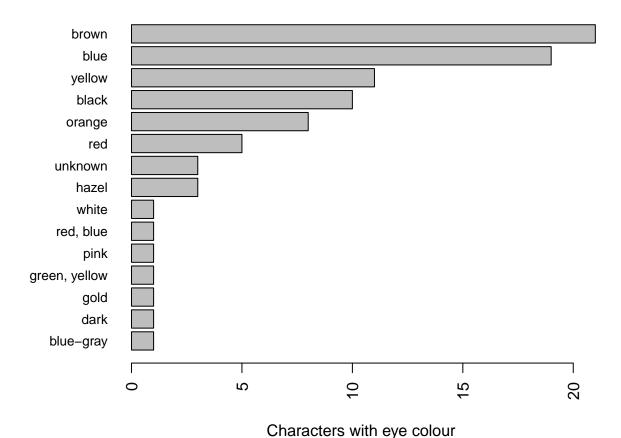
All charts are generated from the starwars dataset in the dplyr package. We'll load the tidyverse package now so that we can use the tidyverse in all three sections of this document.

```
library("tidyverse")
```

## Base R Charts

Base R plots are created with functions from the graphics package, for instance boxplot().

## **Eye Colours in Starwars**



ggplots Charts

ggplot2 provides an extremely powerful and flexible grammar of graphics for creating almost any type of chart.

```
starwars %>%
filter(!is.na(species)) %>%
group_by(species = fct_lump(species, 3, other_level = "Other species")) %>%
mutate(n_species = n()) %>%
ungroup() %>%
mutate(species = fct_reorder(species, n_species),
       species = species %>% fct_rev(),
       species = fct_relevel(species, "Other species", after = Inf)) %>%
select(species, n_species, height) %>%
ggplot(aes(x = height)) +
geom_histogram() +
facet_grid(species ~.) +
theme_bw() +
labs(x = "Height (cm)",
    y = "Count",
    title = "Height distributions of the top 3 most common species in Starwars")
```

