# Project presentations and rmarkdown example

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# 1 Project presentations

Ignite format: 5 minutes presentations (20 slides, 15 seconds each)

You can find some advice and examples here and here

Presentations must include:

- 1. Title
- 2. Description of main aim or question
- 3. Brief methods description (Main data sources and methods)
- 4. A brief description of your data (e.g., table, map, plot showing the number of species, areas, etc.)
- 5. Primary results and a brief discussion

AVOID to include unnecessary code into the R markdown. Code for data downloading and cleaning should be incorporated into a separate R file. Start the document with the clean, processed and merge data.

# 2 Project Rmarkdown

# 3 Example: Life history traits and distribution of Hyraxes

```
# Include here your libraries
library(knitr)
library(tidyverse)
library(maptools)
library(ggpubr)
```

## 3.1 Introduction

- A brief background
- The main question or aim of the project

### 3.2 Methods

- Github repository link
- Data sources
- Data cleaning and processing
- Describe main procedures
- Data summary (how many species? which groups? how many records?...)

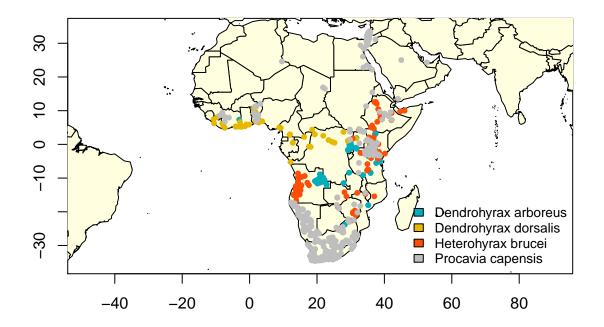
#### 3.2.1 Data description

```
## Data decription
Hyraxes_df<-read.csv("data/processed/Hyracoidea_traits_geo.csv")

Hyraxes_df %>%
    group_by(genus, species) %>%
    tally() %>%
    kable()
```

genus	species	n
Dendrohyrax	arboreus	123
Dendrohyrax	dorsalis	66
Heterohyrax	brucei	132
Procavia	capensis	599

#### 3.2.2 Data distribution



### 3.3 Results and Discussion

```
p <- ggplot(Hyraxes_df, aes(temp, precip)) +
    geom_point(aes(color = Binomial), size = 3, alpha = 0.7) +
    scale_color_manual(values = c("#00AFBB", "#E7B800", "#FC4E07","grey"))+
    xlab("Temperature C") +
    ylab("Precipitation")

# Grouped Scatter plot with marginal density plots
ggscatterhist(
    Hyraxes_df, x = "temp", y = "precip",
    color = "Binomial", size = 3, alpha = 0.6,
    palette = c("#00AFBB", "#E7B800", "#FC4E07","grey"),
    margin.plot = "boxplot",
    ggtheme = theme_bw()
    )
</pre>
```

