

R Cook Book

tropf

ABSTRACT

My personal recipes when using R (<https://r-project.org/>).

1. Intro

I use R mainly for plotting and some data post-processing. This document collects some tricks I encountered and use.

For plotting I use `ggplot2` (<https://github.com/tidyverse/ggplot2/>), which is assumed to exist in these examples. A variable `p` is typically a `ggplot2` plot object.

2. Hiding Legend, but Preserving its Space

To hide a legend, but still take up its space (e.g. to build plots over multiple instances) add the following to the legend. Adjust the aesthetic used.

```
p <- p +  
  guides(fill=guide_legend(override.aes=list(fill=NA))) +  
  theme(legend.text=element_text(color="#00000000"),  
        legend.title=element_text(color="#00000000"))
```

3. `aggregate()` with more than one output value

To aggregate with multiple outputs, use the following snippet. Note that this only works if all outputs have the same type.

```
aggrs <- aggregate(to_be_summarized ~ category,  
                  df,  
                  function(v){c(mean=mean(v), sd=sd(v), min=min(v), max=max(v))})  
extra_df <- data.frame(aggrs$to_be_summarized)  
aggrs$to_be_summarized <- NULL  
colnames(extra_df) <- paste("to_be_summarized", colnames(aggrs), sep=".")  
aggrs <- cbind(aggrs, extra_df)  
rm(extra_df)
```