

# Relatório Rodrigo Exemplo

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## Abstract

This is an abstract

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## Introduction

Some review of the subject and the list of hypotheses discussed at meetings.

## Table 1

```
diamonds %>%
  tableone::CreateTableOne(
    data = .,
    includeNA = T,
    # strata = "visit",
    addOverall = T
  ) %>%
  tableone::kableone()
```

	Overall
n	53940
carat (mean (SD))	0.80 (0.47)
cut (%)	
Fair	1610 ( 3.0)
Good	4906 ( 9.1)
Very Good	12082 (22.4)
Premium	13791 (25.6)
Ideal	21551 (40.0)
color (%)	
D	6775 (12.6)
E	9797 (18.2)
F	9542 (17.7)
G	11292 (20.9)
H	8304 (15.4)
I	5422 (10.1)
J	2808 ( 5.2)
clarity (%)	
I1	741 ( 1.4)
SI2	9194 (17.0)
SI1	13065 (24.2)
VS2	12258 (22.7)
VS1	8171 (15.1)
VVS2	5066 ( 9.4)
VVS1	3655 ( 6.8)
IF	1790 ( 3.3)
depth (mean (SD))	61.75 (1.43)
table (mean (SD))	57.46 (2.23)
price (mean (SD))	3932.80 (3989.44)
x (mean (SD))	5.73 (1.12)
y (mean (SD))	5.73 (1.14)
z (mean (SD))	3.54 (0.71)

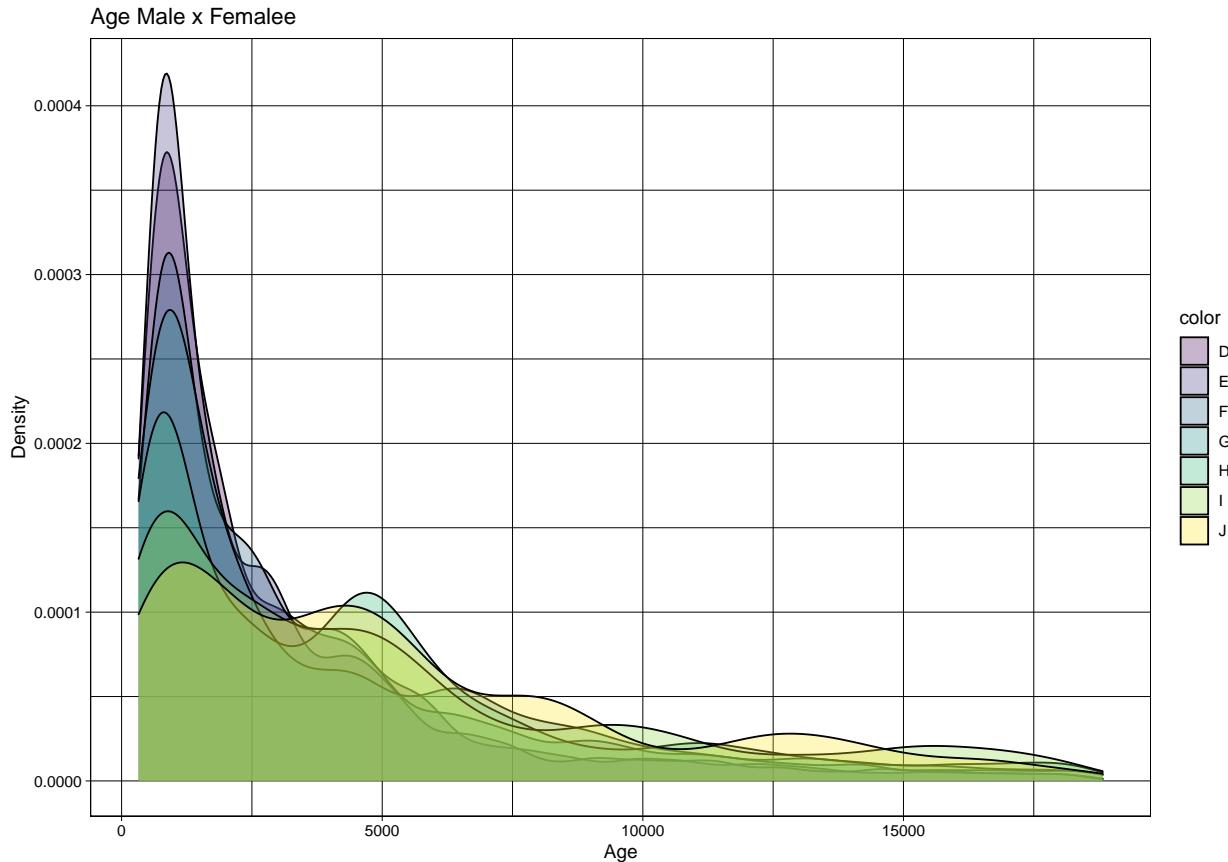
## Basic descriptive characteristics

### Distribution of age by sex

```

diamonds %>%
  ggplot(aes(price, fill = color)) +
  geom_density(alpha = .3) +
  labs(
    title = "Age Male x Femalee", x = "Age",
    y = "Density"
  ) +
  theme_linedraw()

```



## Missing and categories and distribution in one picture

```
tabplot::tableplot(diamonds)
```

```
Registered S3 methods overwritten by 'ffbase':
method      from
[.ff        ff
[.ffdff    ff
[<-.ff     ff
[<-.ffdff ff
```

## Any correlated?

```
diamonds %>%
  select_if(is_numeric) %>%
  psych::pairs.panels(.,
    method = "pearson", # correlation method
    hist.col = "#00AFBB",
    density = TRUE, # show density plots
    ellipses = TRUE # show correlation ellipses
  )
```

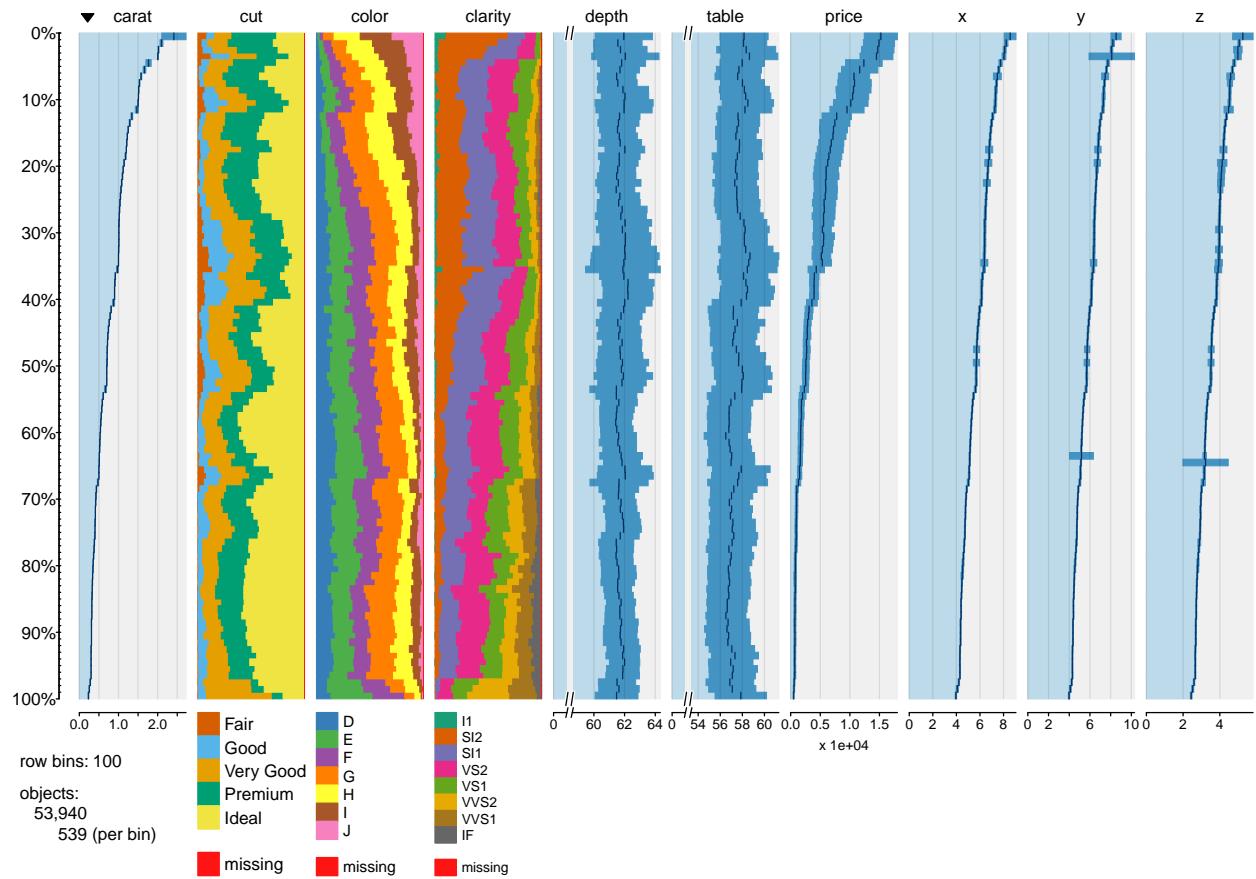
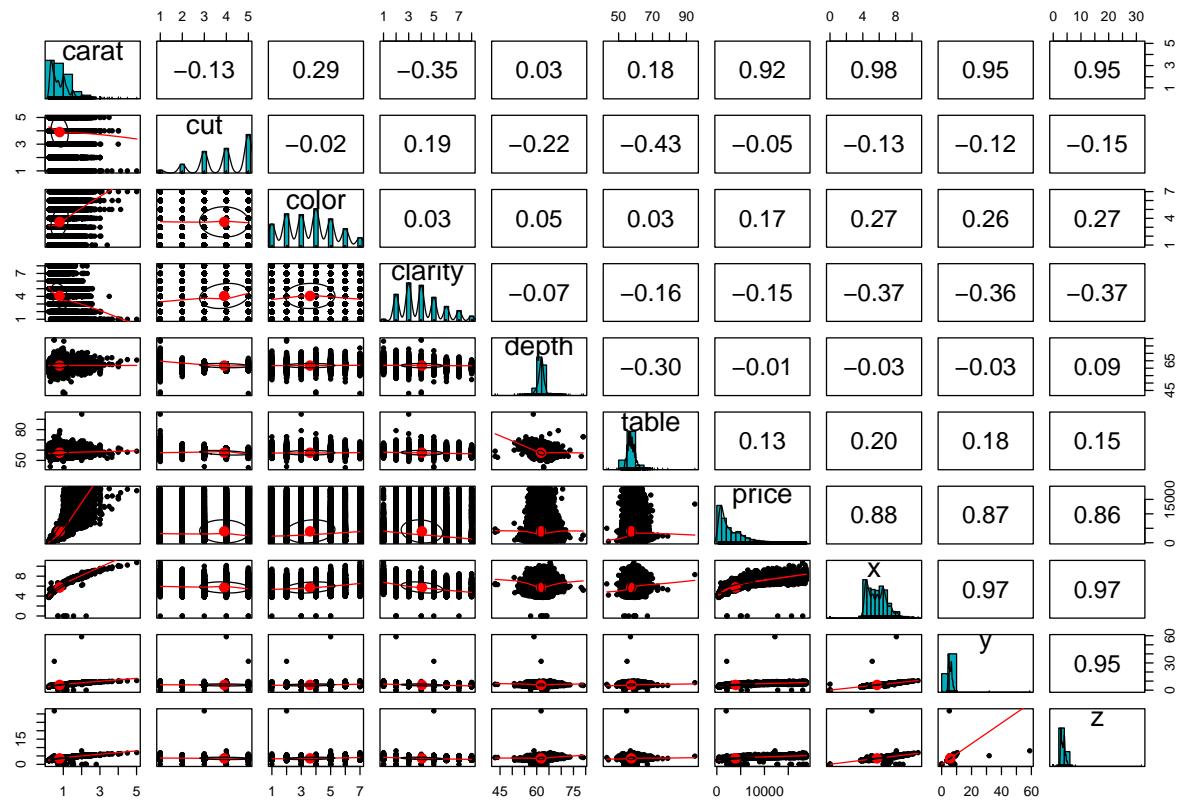


Figure 1: Missings, categories and distributions

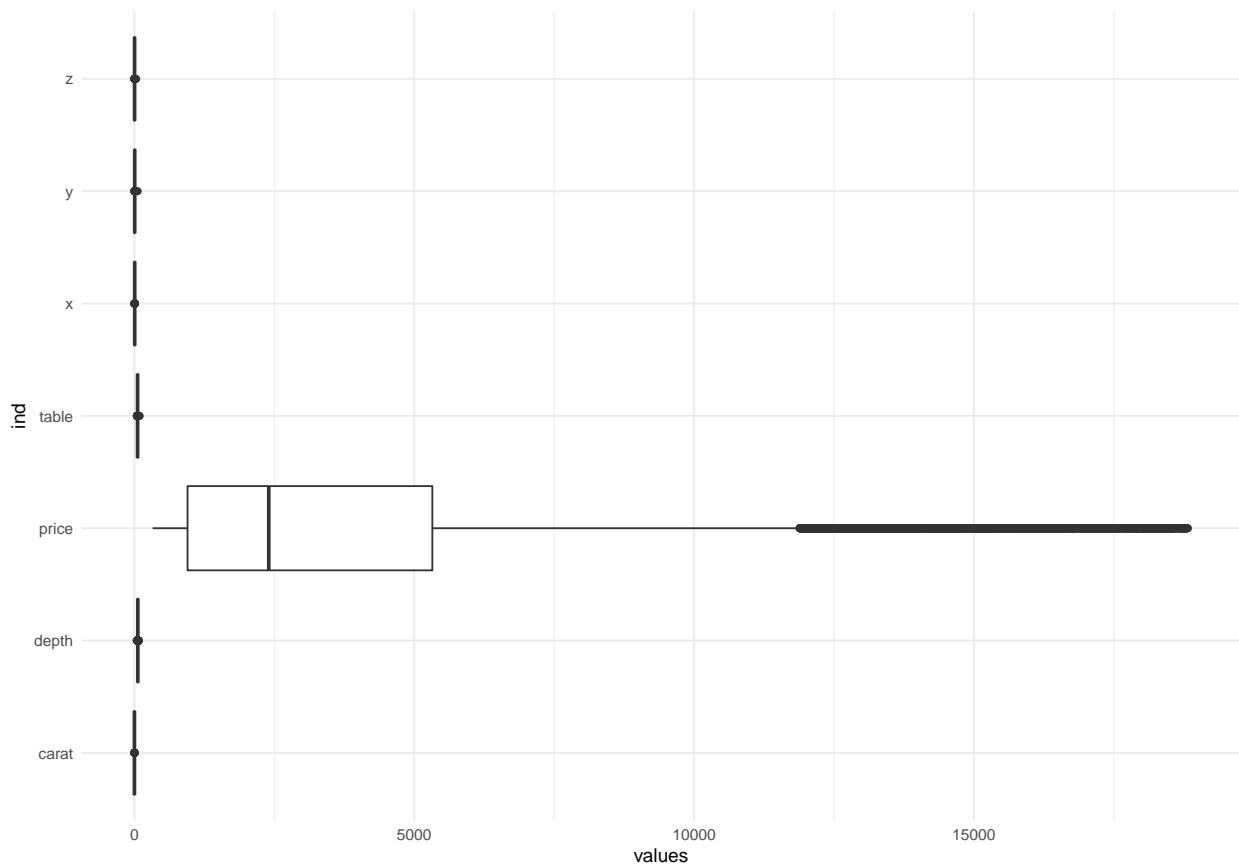


## More info on distribution with boxplots

```

diamonds %>%
  select_if(is.numeric) %>%
  gather(key = "ind", value = "values") %>%
  ggplot(aes(x = ind, y = values)) +
  geom_boxplot() +
  coord_flip() +
  theme_minimal() +
  scale_fill_grey()

```



## System information

```
project.info
```

```
$config
$config$version
[1] "0.10.2"

$config$data_loading
[1] TRUE

$config$data_loading_header
[1] TRUE

$config$data_ignore
[1] ""

$config$cache_loading
[1] TRUE

$config$recursive_loading
[1] FALSE
```

```

$config$munging
[1] TRUE

$config$logging
[1] FALSE

$config$logging_level
[1] "INFO"

$config$load_libraries
[1] TRUE

$config$libraries
[1] "dplyr"

$config$as_factors
[1] FALSE

$config$tables_type
[1] "data.table"

$config$attach_internal_libraries
[1] FALSE

$config$cache_loaded_data
[1] TRUE

$config$sticky_variables
[1] "NONE"

$config$underscore_variables
[1] TRUE

$config$cache_file_format
[1] "RData"

$packages
[1] "dplyr"

$helpers
[1] "pclean.R"

sessionInfo()

R version 4.1.2 (2021-11-01)
Platform: aarch64-apple-darwin20 (64-bit)
Running under: macOS Monterey 12.1

Matrix products: default
BLAS: /Library/Frameworks/R.framework/Versions/4.1-arm64/Resources/lib/libRblas.0.dylib
LAPACK: /Library/Frameworks/R.framework/Versions/4.1-arm64/Resources/lib/libRlapack.dylib

```

```

locale:
[1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8

attached base packages:
[1] stats      graphics   grDevices utils      datasets   methods    base

other attached packages:
[1] dplyr_1.2.0   forcats_0.5.1  stringr_1.4.0  dplyr_1.0.7
[5] purrr_0.3.4   readr_2.1.1   tidyverse_1.3.1
[9] ggplot2_3.3.5 tidyverse_1.3.1

loaded via a namespace (and not attached):
 [1] httr_1.4.2           jsonlite_1.7.2       viridisLite_0.4.0
 [4] splines_4.1.2        tmvnsim_1.0-2        ffbase_0.13.3
 [7] here_1.0.1          modelr_0.1.8        assertthat_0.2.1
[10] highr_0.9           cellranger_1.1.0     yaml_2.2.1
[13] pillar_1.6.4         backports_1.4.1     lattice_0.20-45
[16] glue_1.6.0           digest_0.6.29       rvest_1.0.2
[19] colorspace_2.0-2    psych_2.1.9        htmltools_0.5.2
[22] Matrix_1.3-4        survey_4.1-1       pkgconfig_2.0.3
[25] broom_0.7.11        labelled_2.9.0     haven_2.4.3
[28] scales_1.1.1         tabplot_1.4.1      ff_4.0.5
[31] tzdb_0.2.0           proxy_0.4-26       generics_0.1.1
[34] farver_2.1.0         ellipsis_0.3.2     withr_2.4.3
[37] mnormt_2.0.2         cli_3.1.0          survival_3.2-13
[40] magrittr_2.0.1        crayon_1.4.2      readxl_1.3.1
[43] evaluate_0.14        fs_1.5.2           fansi_0.5.0
[46] nlme_3.1-153         xml2_1.3.3        class_7.3-19
[49] tableone_0.13.0     tools_4.1.2       data.table_1.14.2
[52] hms_1.1.1            mitools_2.4       lifecycle_1.0.1
[55] ProjectTemplate_0.10.2 munsell_0.5.0     reprex_2.0.1
[58] compiler_4.1.2        e1071_1.7-9       rlang_0.4.12
[61] grid_4.1.2           rstudioapi_0.13    labeling_0.4.2
[64] rmarkdown_2.11         gtable_0.3.0       DBI_1.1.2
[67] R6_2.5.1              zoo_1.8-9         lubridate_1.8.0
[70] knitr_1.37            bit_4.0.4          fastmap_1.1.0
[73] utf8_1.2.2            fastmatch_1.1-3    rprojroot_2.0.2
[76] stringi_1.7.6         parallel_4.1.2    Rcpp_1.0.7
[79] vctrs_0.3.8           dbplyr_2.1.1      tidyselect_1.1.1
[82] xfun_0.29

```

## References