RMarkdown2

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## R Markdown

data(survey, package = "MASS")  
# install.packages("dlookr")  
library(dlookr)  
library(tidyverse)  
library(flextable)  
dlookr::diagnose(survey) %>% flextable()

| variables | types | missing\_count | missing\_percent | unique\_count | unique\_rate |
| --- | --- | --- | --- | --- | --- |
| Sex | factor | 1 | 0.4219409 | 3 | 0.01265823 |
| Wr.Hnd | numeric | 1 | 0.4219409 | 61 | 0.25738397 |
| NW.Hnd | numeric | 1 | 0.4219409 | 69 | 0.29113924 |
| W.Hnd | factor | 1 | 0.4219409 | 3 | 0.01265823 |
| Fold | factor | 0 | 0.0000000 | 3 | 0.01265823 |
| Pulse | integer | 45 | 18.9873418 | 44 | 0.18565401 |
| Clap | factor | 1 | 0.4219409 | 4 | 0.01687764 |
| Exer | factor | 0 | 0.0000000 | 3 | 0.01265823 |
| Smoke | factor | 1 | 0.4219409 | 5 | 0.02109705 |
| Height | numeric | 28 | 11.8143460 | 68 | 0.28691983 |
| M.I | factor | 28 | 11.8143460 | 3 | 0.01265823 |
| Age | numeric | 0 | 0.0000000 | 88 | 0.37130802 |

diagnose\_category(survey) %>% flextable()

| variables | levels | N | freq | ratio | rank |
| --- | --- | --- | --- | --- | --- |
| Sex | Female | 237 | 118 | 49.7890295 | 1 |
| Sex | Male | 237 | 118 | 49.7890295 | 1 |
| Sex |  | 237 | 1 | 0.4219409 | 3 |
| W.Hnd | Right | 237 | 218 | 91.9831224 | 1 |
| W.Hnd | Left | 237 | 18 | 7.5949367 | 2 |
| W.Hnd |  | 237 | 1 | 0.4219409 | 3 |
| Fold | R on L | 237 | 120 | 50.6329114 | 1 |
| Fold | L on R | 237 | 99 | 41.7721519 | 2 |
| Fold | Neither | 237 | 18 | 7.5949367 | 3 |
| Clap | Right | 237 | 147 | 62.0253165 | 1 |
| Clap | Neither | 237 | 50 | 21.0970464 | 2 |
| Clap | Left | 237 | 39 | 16.4556962 | 3 |
| Clap |  | 237 | 1 | 0.4219409 | 4 |
| Exer | Freq | 237 | 115 | 48.5232068 | 1 |
| Exer | Some | 237 | 98 | 41.3502110 | 2 |
| Exer | None | 237 | 24 | 10.1265823 | 3 |
| Smoke | Never | 237 | 189 | 79.7468354 | 1 |
| Smoke | Occas | 237 | 19 | 8.0168776 | 2 |
| Smoke | Regul | 237 | 17 | 7.1729958 | 3 |
| Smoke | Heavy | 237 | 11 | 4.6413502 | 4 |
| Smoke |  | 237 | 1 | 0.4219409 | 5 |
| M.I | Metric | 237 | 141 | 59.4936709 | 1 |
| M.I | Imperial | 237 | 68 | 28.6919831 | 2 |
| M.I |  | 237 | 28 | 11.8143460 | 3 |

diagnose\_numeric(survey) %>% flextable()

| variables | min | Q1 | mean | median | Q3 | max | zero | minus | outlier |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Wr.Hnd | 13.00 | 17.500 | 18.66907 | 18.500 | 19.800 | 23.2 | 0 | 0 | 4 |
| NW.Hnd | 12.50 | 17.500 | 18.58263 | 18.500 | 19.725 | 23.5 | 0 | 0 | 9 |
| Pulse | 35.00 | 66.000 | 74.15104 | 72.500 | 80.000 | 104.0 | 0 | 0 | 4 |
| Height | 150.00 | 165.000 | 172.38086 | 171.000 | 180.000 | 200.0 | 0 | 0 | 0 |
| Age | 16.75 | 17.667 | 20.37451 | 18.583 | 20.167 | 73.0 | 0 | 0 | 21 |

#install.packages("crosstable")  
library(crosstable)  
crosstable(survey, cols = c("Smoke", "Height"), by = Exer) %>%   
 crosstable::as\_flextable()

| **label** | **variable** | **Exer** | | |
| --- | --- | --- | --- | --- |
| **Freq** | **None** | **Some** |
| Smoke | Heavy | 7 (63.64%) | 1 (9.09%) | 3 (27.27%) |
| Never | 87 (46.03%) | 18 (9.52%) | 84 (44.44%) |
| Occas | 12 (63.16%) | 3 (15.79%) | 4 (21.05%) |
| Regul | 9 (52.94%) | 1 (5.88%) | 7 (41.18%) |
| NA | 0 | 1 | 0 |
| Height | Min / Max | 150.0 / 200.0 | 157.5 / 190.5 | 152.0 / 193.0 |
| Med [IQR] | 173.0 [168.0;180.3] | 167.0 [163.8;172.2] | 168.9 [164.8;177.2] |
| Mean (std) | 174.6 (9.8) | 169.0 (9.5) | 170.4 (9.5) |
| N (NA) | 105 (10) | 20 (4) | 84 (14) |