

CHISQUARE TEST: IN MARK_DOWN VISUAL EDITOR

Langat

CHI SQUARE TEST

```
library(tidyverse)
library(forcats)
gss_cat #Datasets
```

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```
## # A tibble: 21,483 x 9
##   year marital      age race rincome      partyid      relig denom tvhours
##   <int> <fct>      <int> <fct> <fct>      <fct>      <fct> <fct>      <int>
## 1 2000 Never married    26 White $8000 to 9999 Ind,near ~ Prot~ Sout~      12
## 2 2000 Divorced        48 White $8000 to 9999 Not str r~ Prot~ Bapt~      NA
## 3 2000 Widowed         67 White Not applicable Indepe~ Prot~ No d~       2
## 4 2000 Never married    39 White Not applicable Ind,near ~ Orth~ Not ~       4
## 5 2000 Divorced        25 White Not applicable Not str d~ None Not ~       1
## 6 2000 Married         25 White $20000 - 24999 Strong de~ Prot~ Sout~      NA
## 7 2000 Never married    36 White $25000 or more Not str r~ Chri~ Not ~       3
## 8 2000 Divorced        44 White $7000 to 7999 Ind,near ~ Prot~ Luth~      NA
## 9 2000 Married         44 White $25000 or more Not str d~ Prot~ Other       0
## 10 2000 Married        47 White $25000 or more Strong re~ Prot~ Sout~       3
## # i 21,473 more rows
```

```
my_data <- gss_cat %>% select(marital) %>%
  filter(marital %in% c("Married",
                        "Never married",
                        "Divorced")) %>%
  mutate(marital=fct_drop(marital))
unique(my_data)
```

```
## # A tibble: 3 x 1
##   marital
##   <fct>
## 1 Never married
## 2 Divorced
## 3 Married
```

```
my_table <- table(my_data)
my_table %>% as_tibble()
```

```
## # A tibble: 3 x 2
##   marital      n
##   <chr>      <int>
## 1 Never married 5416
## 2 Divorced    3383
```

```
## 3 Married      10117
alpha <- 0.05
chisq.test(my_table)

##
## Chi-squared test for given probabilities
##
## data:  my_table
## X-squared = 3784.1, df = 2, p-value < 2.2e-16
my_data %>% table() %>% chisq.test()

##
## Chi-squared test for given probabilities
##
## data:  .
## X-squared = 3784.1, df = 2, p-value < 2.2e-16
```