

## Latex Math Example

```
summary_single_table <- tribble( ~grpname, ~ NOAE, ~g_1, ~g_2, ~g_3, ~ g_4, ~g_5,
  '$$something_{\\textrm{something}} CHECKMARK$$', 39, 5, 7, 1, 1, 1,
  '$$VENUS_{\\textrm{something}} | VENUS_{\\textrm{something}}$$ ', 9, 3,
  'PLUTO', 38, 0, 6, 0, 1, 2,
  'NEP', 11, 0, 3, 1, 0, 0)

percents_table <-
  summary_single_table %>%
  select(-'grpname') %>%
  apply(1, function(.) {
    round(. / sum(.), 2)
  }) %>%
  t()

dimnames(percents_table)[[2]] <- purrr::map_chr(dimnames(percents_table)[[2]], function(.){paste0(., '_')})
summary_single_table$N <- rowSums(summary_single_table %>% select(-'grpname'))

df <- cbind(summary_single_table, percents_table)

rename_col <- function(){
  to_rename <- summary_single_table %>% select(-'grpname')
  col_nm <- names(to_rename)
  v <- list('No AE', '$$1_{\\textrm{rad}}$$', '2', '3', '4', '5', 'N')
  names(v) <- col_nm
  v
}

tbl <- df %>%
  gt(rowname_col = 'grpname') %>%
  tab_stubhead(label = "TESTING") %>%
  cols_move_to_start(
    columns = vars(N)
  ) %>%
  cols_merge(
    columns = starts_with('g_1'),
    pattern = '{1} ({2})'
  ) %>%
  cols_merge(
    columns = starts_with('g_2'),
    pattern = '{1} ({2})'
  ) %>%
  cols_merge(
    columns = starts_with('g_3'),
    pattern = '{1} ({2})'
  ) %>%
  cols_merge(
    columns = starts_with('g_4'),
```

```

    pattern = '{1} ({2})'
  ) %>%
  cols_merge(
    columns = starts_with('g_5'),
    pattern = '{1} ({2})'
  ) %>%
  cols_merge(
    columns = starts_with('NOAE'),
    pattern = '{1} ({2})'
  ) %>%
  tab_spanner(
    label = 'Distance',
    columns = starts_with('g_')
  ) %>%
  tab_spanner(
    label = '',
    columns = vars(N, NOAE)
  ) %>%
  tab_footnote(
    footnote = "Color indicates height of sun.",
    locations = cells_column_labels(
      columns = starts_with('g_'))
  ) %>%
  cols_label(.list = rename_col()) %>%
  tab_source_note(
    c(
      paste0('Script code: ', 'latex_math.Rmd'),
      paste0('Tex code: ', 'latex_math.tex')
    )
  ) %>%
  as_latex()
tbl

```

TESTING	N	No AE	Distance				
			$1_{\text{rad}}^1$	$2^1$	$3^1$	$4^1$	$5^1$
<i>something</i> <sub>something</sub> ✓	54	39 (0.72)	5 (0.09)	7 (0.13)	1 (0.02)	1 (0.02)	1 (0.02)
<i>VENUS</i> <sub>something</sub>   <i>VENUS</i> <sub>something</sub>	14	9 (0.64)	3 (0.21)	0 (0.00)	2 (0.14)	0 (0.00)	0 (0.00)
PLUTO	47	38 (0.81)	0 (0.00)	6 (0.13)	0 (0.00)	1 (0.02)	2 (0.04)
NEP	15	11 (0.73)	0 (0.00)	3 (0.20)	1 (0.07)	0 (0.00)	0 (0.00)

<sup>1</sup>Color indicates height of sun.

Script code: latex\_math.Rmd  
Tex code: latex\_math.tex

```
as.character(tbl)
```

```
## [1] "\\begin{ThreePartTable}\\n\\n\\settotextwidth\\n\\begin{TableNotes}\\n\\setlength\\labelsep{0pt}\\n\\end{TableNotes}\\n\\end{ThreePartTable}"
```