

WithFlextable

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```
ft <- flextable(head(airquality))  
ft <- autofit(ft)  
theme_vader(ft)
```

Ozone	Solar.R	Wind	Temp	Month	Day
41	190	7.4	67	5	1
36	118	8.0	72	5	2
12	149	12.6	74	5	3
18	313	11.5	62	5	4
		14.3	56	5	5
28		14.9	66	5	6

```
library(dplyr)
```

```
##  
## Attaching package: 'dplyr'  
  
## The following objects are masked from 'package:stats':  
##  
##   filter, lag  
  
## The following objects are masked from 'package:base':  
##  
##   intersect, setdiff, setequal, union
```

```
df <- read.table(header=TRUE, text='  
id age  
1  20  
2  27  
3  24  
4  26  
5  20  
' )  
  
stats <- df %>% summarise(N = n(), mean = mean(age),
```

```
std=round(sd(age),2),max = max(age),min = min(age))

ft <- flextable(stats)
ft <- autofit(ft)
theme_vader(ft)
```

N	mean	std	max	min
5	23.4	3.29	27	20

```
library(haven)

adsl <- read_xpt("https://github.com/phuse-org/TestDataFactory/raw/main/Updated/TDF_ADaM/adsl.xpt")

library(Tplyr)

options(
  # Categorical variable defaults
  tplyr.count_layer_default_formats =
    list(n_counts = f_str("xxx [xx.xx%]", n, pct)),

  # Continuous variable defaults
  tplyr.desc_layer_default_formats =
    list('N' = f_str('xx', n),
         'Mean [SD]' = f_str('xx.xx [xx.xxx]', mean, sd),
         'Median' = f_str('xx.x', median),
         'Min, Max' = f_str('xx, xx', min, max))
)

library(dplyr)

# Initiate Tplyr, specify treatment variable, optional where condition
my_table <- tplyr_table(adsl, TRT01P, where = SAFFL == "Y") %>%

  # Add a total group column
  add_total_group() %>%

  # Add individual variables here
  add_layer(group_desc(AGE, b = "Age (years)")) %>%
  add_layer(group_count(AGEGR1, b = "Age Group 1 (years)")) %>%
  add_layer(group_count(SEX, b = "Gender")) %>%
  add_layer(group_count(ETHNIC, b = "Ethnicity")) %>%
  add_layer(group_desc(BMIBL, b = "Baseline Body Mass Index (kg/m2)")) %>%

  # Build
  build()

head(my_table, n = 9)
```

```
## # A tibble: 9 x 9
##   row_label1      row_label2 var1_Placebo   `var1_Xanomeline High Dose`
```

```
##   <chr>                <chr>      <chr>          <chr>
## 1 Age (years)          N            "86"           "84"
## 2 Age (years)          Mean [SD]    "75.21 [ 8.590]" "74.38 [ 7.886]"
## 3 Age (years)          Median       "76.0"          "76.0"
## 4 Age (years)          Min, Max     "52, 89"        "56, 88"
## 5 Age Group 1 (years) <65          " 14 [16.28%]"  " 11 [13.10%]"
## 6 Age Group 1 (years) >80          " 30 [34.88%]"  " 18 [21.43%]"
## 7 Age Group 1 (years) 65-80        " 42 [48.84%]"  " 55 [65.48%]"
## 8 Gender               F            " 53 [61.63%]"  " 40 [47.62%]"
## 9 Gender               M            " 33 [38.37%]"  " 44 [52.38%]"
## # i 5 more variables: `var1_Xanomeline Low Dose` <chr>, var1_Total <chr>,
## #   ord_layer_index <int>, ord_layer_1 <int>, ord_layer_2 <dbl>
```

```
my_table <- my_table %>%

  # remove repeating labels
  apply_row_masks(., row_breaks = TRUE) %>%

  # specify order of relevant variables
  select(row_label1,
         row_label2,
         `var1_Xanomeline High Dose`,
         `var1_Xanomeline Low Dose`,
         var1_Placebo,
         var1_Total)

library(flextable)

# a basic flextable
my_flextable <- my_table %>%
  # start flextable
  flextable() %>%
  autofit()

my_flextable
```

row_label1	row_label2	var1_Xanomeline High Dose	var1_Xanomeline Low Dose
Age (years)	N	84	84
	Mean [SD]	74.38 [7.886]	75.21 [8.590]
	Median	76.0	76.0
	Min, Max	56, 88	52, 89
Age Group 1 (years)	<65	11 [13.10%]	14 [16.28%]
	>80	18 [21.43%]	30 [34.88%]
	65-80	55 [65.48%]	42 [48.84%]
Gender	F	40 [47.62%]	53 [61.63%]
	M	44 [52.38%]	33 [38.37%]

row_label1	row_label2	var1_Xanomeline High Dose	var1_Xanomeline Low Dose
	M	44 [52.38%]	34 [41.52%]
Ethnicity	HISPANIC OR LATINO	3 [3.57%]	6 [7.41%]
	NOT HISPANIC OR LATINO	81 [96.43%]	78 [92.59%]
Baseline Body Mass Index (kg/m2)	N	84	84
	Mean [SD]	25.35 [4.158]	25.35 [4.158]
	Median	24.8	24.8
	Min, Max	14, 34	18, 34

```

# a nicer flextable
my_flextable <- my_table %>%

# start flextable
flextable() %>%
autofit() %>%

# add some padding between rows
padding(padding = 0.5) %>%

# adjust width of first two columns
width(j = 1:2, width = 0.5) %>%

# align treatment columns to center
align(part = "all", align = "center", j = 3:6) %>%

# column header labels
set_header_labels(., values = list(
  row_label1 = 'Variable',
  row_label2 = ' ',
  `var1_Xanomeline High Dose` = 'Xanomeline \nHigh Dose',
  `var1_Xanomeline Low Dose` = 'Xanomeline \nLow Dose',
  var1_Placebo = 'Placebo',
  var1_Total = 'Total')) %>%

# header + footers
add_header_lines(values = "Table: Demographics (Safety Analysis Set)") %>%
add_footer_lines(values = "This was produced in R!") %>%

# font size, font name
fontsize(part = "all", size = 8)
# font()
# font(part = "all", fontname = "Times")
# This errors, perhaps version issue. -- SZ

ft <- my_flextable

```

```
#ft <- autofit(ft)
#ft

set_table_properties(ft, width = .5, layout = "autofit")
```

Table: Demographics (Safety Analysis Set)

Variable		Xanomeline High Dose	Xanomeline Low Dose	Placebo	Total
Age (years)	N	84	84	86	254
	Mean [SD]	74.38 [7.886]	75.67 [8.286]	75.21 [8.590]	75.09 [8.246]
	Median	76.0	77.5	76.0	77.0
	Min, Max	56, 88	51, 88	52, 89	51, 89
Age Group 1 (years)	<65	11 [13.10%]	8 [9.52%]	14 [16.28%]	33 [12.99%]
	>80	18 [21.43%]	29 [34.52%]	30 [34.88%]	77 [30.31%]
	65-80	55 [65.48%]	47 [55.95%]	42 [48.84%]	144 [56.69%]
Gender	F	40 [47.62%]	50 [59.52%]	53 [61.63%]	143 [56.30%]
	M	44 [52.38%]	34 [40.48%]	33 [38.37%]	111 [43.70%]
Ethnicity	HISPANIC OR LATINO	3 [3.57%]	6 [7.14%]	3 [3.49%]	12 [4.72%]
	NOT HISPANIC OR LATINO	81 [96.43%]	78 [92.86%]	83 [96.51%]	242 [95.28%]
Baseline Body Mass Index (kg/m2)	N	84	84	86	254
	Mean [SD]	25.35 [4.158]	25.06 [4.271]	23.64 [3.672]	24.67 [4.092]
	Median	24.8	24.3	23.4	24.2
	Min, Max	14, 34	18, 40	15, 33	14, 40

This was produced in R!