

# flextable package

a grammar to produce tabular  
reporting from R

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2019-07-10



# Motivations

Provide an R grammar for tabular reporting

```
library(flextable)
library(magrittr)
ft <- head(iris, n = 3) %>%
  flextable() %>%
  color(color = "#006699", part = "header") %>%
  colformat_num(
    col_keys = c("Sepal.Length", "Sepal.Width",
                "Petal.Length", "Petal.Width"),
    digits = 1)
```

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa

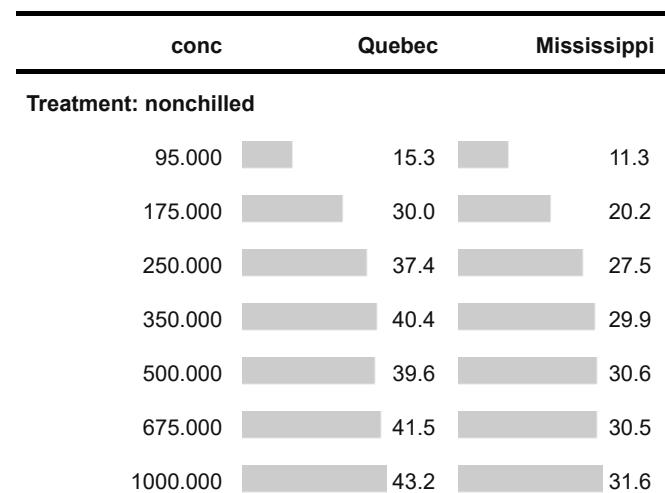
Enable its usage in R Markdown documents with outputs to



```
---
title: RMD document with iris as a flextable
---

```{r}
flextable::flextable(iris)
```
```

Enable creation of simple and complex tables



# History



2017-03-28

first realease on CRAN, support officer and HTML R Markdown. Idea was to replace `ReporteRs::FlexTable`.



2017-10-30 ☺

Merge pull request #37 from mnazarov/master. Added functionality to insert flextable's in R Markdown for docx output.



2017-11-22

R Markdown support for pptx output.



2019-01-29

Refactor internals and add `flextable::compose` (for complex formatting)

# flextable anatomy

A flextable object is composed by the 3 parts : header / body / footer

*default*

*colnames*

*data*

*empty*

*part*

**header**

**body**

**footer**

**Example :**

| Sepal.Length | Sepal.Width |
|--------------|-------------|
| 5.100        | 3.500       |
| 4.900        | 3.000       |
| 4.700        | 3.200       |
| 4.600        | 3.100       |

only iris[1:4,1:2] shown

# Selectors

You can select row(s), column(s) or cell(s) of any part to modify its :

- content
- layout
- format

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```
cols <- ~ Height + Volume  
flextable(head(trees)) %>%  
  theme_box()
```

| Girth  | Height | Volume |
|--------|--------|--------|
| 8.300  | 70.000 | 10.300 |
| 8.600  | 65.000 | 10.300 |
| 8.800  | 63.000 | 10.200 |
| 10.500 | 72.000 | 16.400 |
| 10.700 | 81.000 | 18.800 |

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```
cols <- ~ Height + Volume  
  
flextable(head(trees)) %>%  
  theme_box() %>%  
  bg(bg = "#475f77", j = cols) %>%  
  color(color = "white", j = cols)
```

| Girth  | Height | Volume |
|--------|--------|--------|
| 8.300  | 70.000 | 10.300 |
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Any function contains parameters **j** and **i**. They can be specified with :

- indices
- formula
- character names

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- character names

```
rows <- ~ Height > 67 & Volume < 19  
  
flextable(head(trees)) %>%  
  theme_box()
```

| Girth  | Height | Volume |
|--------|--------|--------|
| 8.300  | 70.000 | 10.300 |
| 8.600  | 65.000 | 10.300 |
| 8.800  | 63.000 | 10.200 |
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  bg(bg = "#475f77", i = rows) %>%  
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NB: You can use `%>%` to combine multiple statement

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- indices
- formula
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rows <- ~ Height > 67 & Volume < 19  
  
flextable(head(trees)) %>%  
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# Formats

Remember that any formatting function can be coupled with selectors !

```
flextable(x) %>%  
  any_format_function(i = ~ . . ., j = ~ . . .)
```

# Formats

```
x <- head(quakes) %>% flextable() %>% theme_box()
```

```
x
```

| lat     | long    | depth | mag   | stations |
|---------|---------|-------|-------|----------|
| -20.420 | 181.620 | 562   | 4.800 | 41       |
| -20.620 | 181.030 | 650   | 4.200 | 15       |
| -26.000 | 184.100 | 42    | 5.400 | 43       |
| -17.970 | 181.660 | 626   | 4.100 | 19       |
| -20.420 | 181.960 | 649   | 4.000 | 11       |
| -19.680 | 184.310 | 195   | 4.000 | 12       |

# Formats

```
x <- head(quakes) %>% flextable() %>% theme_box()
```

```
x %>%
bold(i = 2)
```

| lat            | long           | depth      | mag          | stations  |
|----------------|----------------|------------|--------------|-----------|
| -20.420        | 181.620        | 562        | 4.800        | 41        |
| <b>-20.620</b> | <b>181.030</b> | <b>650</b> | <b>4.200</b> | <b>15</b> |
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# Formats

```
x <- head(quakes) %>% flextable() %>% theme_box()
```

```
x %>%
  bold(i = 2) %>%
  italic(i = 2)
```

| lat            | long           | depth      | mag          | stations  |
|----------------|----------------|------------|--------------|-----------|
| -20.420        | 181.620        | 562        | 4.800        | 41        |
| <b>-20.620</b> | <b>181.030</b> | <b>650</b> | <b>4.200</b> | <b>15</b> |
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# Formats

```
x <- head(quakes) %>% flextable() %>% theme_box()
```

```
x %>%
  bold(i = 2) %>%
  italic(i = 2) %>%
  font(i = 2, fontname = "Times")
```

| lat            | long           | depth      | mag          | stations  |
|----------------|----------------|------------|--------------|-----------|
| -20.420        | 181.620        | 562        | 4.800        | 41        |
| <b>-20.620</b> | <b>181.030</b> | <b>650</b> | <b>4.200</b> | <b>15</b> |
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x %>%
  bold(i = 2) %>%
  italic(i = 2) %>%
  font(i = 2, fontname = "Times") %>%
  fontsize(i = 2, size = 14)
```

| lat            | long           | depth      | mag          | stations  |
|----------------|----------------|------------|--------------|-----------|
| -20.420        | 181.620        | 562        | 4.800        | 41        |
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```

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```

```
inside <- fp_border(color = "gray")
outside <- fp_border(color = "orange",
                      width = 2)
```

| lat            | long           | depth      | mag          | stations  |
|----------------|----------------|------------|--------------|-----------|
| -20.420        | 181.620        | 562        | 4.800        | 41        |
| <b>-20.620</b> | <b>181.030</b> | <b>650</b> | <b>4.200</b> | <b>15</b> |
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inside <- fp_border(color = "gray")
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```
x %>%
  border_outer(border = outside)
```

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x %>%
  border_outer(border = outside) %>%
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inside <- fp_border(color = "gray")
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                      width = 2)
```

```
x %>%
  border_outer(border = outside) %>%
  border_inner(border = inside) %>%
  bg(i = ~ mag > 5, j = ~ lat + long,
      bg = "#becde6")
```

| lat            | long           | depth      | mag          | stations  |
|----------------|----------------|------------|--------------|-----------|
| -20.420        | 181.620        | 562        | 4.800        | 41        |
| <b>-20.620</b> | <b>181.030</b> | <b>650</b> | <b>4.200</b> | <b>15</b> |
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| lat            | long           | depth      | mag          | stations  |
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| -20.420        | 181.620        | 562        | 4.800        | 41        |
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**Others formatting functions : align, padding, rotate, etc...**

# Cell merging

```
dat <- data.frame(  
  letters1 = c("a", "b", "b", "c"),  
  letters2 = c("d", "e", "b", "b"),  
  number = 1:4,  
  stringsAsFactors = FALSE  
)
```

# Cell merging

```
dat <- data.frame(  
  letters1 = c("a", "b", "b", "c"),  
  letters2 = c("d", "e", "b", "b"),  
  number = 1:4,  
  stringsAsFactors = FALSE  
)  
  
x <- flextable(dat) %>%  
  theme_box()  
x
```

| letters1 | letters2 | number |
|----------|----------|--------|
| a        | d        | 1      |
| b        | e        | 2      |
| b        | b        | 3      |
| c        | b        | 4      |

# Cell merging

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  letters1 = c("a", "b", "b", "c"),  
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  stringsAsFactors = FALSE  
)  
  
x <- flextable(dat) %>%  
  theme_box()  
x  
  
x %>%  
  merge_v()
```

| letters1 | letters2 | number |
|----------|----------|--------|
| a        | d        | 1      |
| b        | e        | 2      |
| b        | b        | 3      |
| c        | b        | 4      |

| letters1 | letters2 | number |
|----------|----------|--------|
| a        | d        | 1      |
| b        | e        | 2      |
| b        | b        | 3      |
| c        | b        | 4      |

NB: Selector *j* can be used with *merge\_v*

# Cell merging

```
dat <- data.frame(  
  letters1 = c("a", "b", "b", "c"),  
  letters2 = c("d", "e", "b", "b"),  
  number = 1:4,  
  stringsAsFactors = FALSE  
)  
  
x <- flextable(dat) %>%  
  theme_box()  
x
```

| letters1 | letters2 | number |
|----------|----------|--------|
| a        | d        | 1      |
| b        | e        | 2      |
| b        | b        | 3      |
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```
x %>%  
  merge_v()
```

| letters1 | letters2 | number |
|----------|----------|--------|
| a        | d        | 1      |
| b        | e        | 2      |
|          | b        | 3      |
| c        | b        | 4      |

NB: Selector *j* can be used with *merge\_v*

```
x %>%  
  merge_h()
```

| letters1 | letters2 | number |
|----------|----------|--------|
| a        | d        | 1      |
| b        | e        | 2      |
| b        |          | 3      |
| c        | b        | 4      |

NB: Selector *i* can be used with *merge\_h*

# Cell merging

```
study <- data.frame(  
  `id` = 1:12,  
  Age = c(rep("<20 years", 3), rep("21-40 years", 3), rep("41-60 years", 3), rep(">60 years", 3)),  
  Gender = c(rep(c("Male", "Male", "Female", "Male", "Female", "Female"), 2)),  
  `Day 1` = sample(c(0L,1L), 12, T),  
  `Day 2` = sample(c(0L,1L), 12, T),  
  `Day 3` = sample(c(0L,1L), 12, T),  
  `Day 4` = sample(c(0L,1L), 12, T),  
  stringsAsFactors = FALSE  
)
```

# Cell merging

```
x <- flextable(study)
```

| id | Age         | Gender | Day.1 | Day.2 | Day.3 | Day.4 |
|----|-------------|--------|-------|-------|-------|-------|
| 1  | <20 years   | Male   | 1     | 0     | 0     | 0     |
| 2  | <20 years   | Male   | 0     | 0     | 1     | 1     |
| 3  | <20 years   | Female | 0     | 0     | 1     | 1     |
| 4  | 21-40 years | Male   | 1     | 0     | 1     | 0     |
| 5  | 21-40 years | Female | 1     | 0     | 1     | 0     |
| 6  | 21-40 years | Female | 0     | 0     | 1     | 1     |
| 7  | 41-60 years | Male   | 0     | 1     | 1     | 1     |
| 8  | 41-60 years | Male   | 1     | 1     | 0     | 1     |
| 9  | 41-60 years | Female | 0     | 0     | 0     | 1     |
| 10 | >60 years   | Male   | 0     | 0     | 0     | 1     |
| 11 | >60 years   | Female | 1     | 0     | 1     | 0     |
| 12 | >60 years   | Female | 0     | 0     | 1     | 1     |

# Cell merging

```
x <- flextable(study) %>%  
  theme_merge()
```

| <b>id</b> | <b>Age</b>  | <b>Gender</b> | <b>Day.1</b> | <b>Day.2</b> | <b>Day.3</b> | <b>Day.4</b> |
|-----------|-------------|---------------|--------------|--------------|--------------|--------------|
| 1         | <20 years   | Male          | 1            | 0            | 0            | 0            |
| 2         | <20 years   | Male          | 0            | 0            | 1            | 1            |
| 3         | <20 years   | Female        | 0            | 0            | 1            | 1            |
| 4         | 21-40 years | Male          | 1            | 0            | 1            | 0            |
| 5         | 21-40 years | Female        | 1            | 0            | 1            | 0            |
| 6         | 21-40 years | Female        | 0            | 0            | 1            | 1            |
| 7         | 41-60 years | Male          | 0            | 1            | 1            | 1            |
| 8         | 41-60 years | Male          | 1            | 1            | 0            | 1            |
| 9         | 41-60 years | Female        | 0            | 0            | 0            | 1            |
| 10        | >60 years   | Male          | 0            | 0            | 0            | 1            |
| 11        | >60 years   | Female        | 1            | 0            | 1            | 0            |
| 12        | >60 years   | Female        | 0            | 0            | 1            | 1            |

# Cell merging

```
x <- flextable(study) %>%
  theme_merge %>%
  merge_v(j = ~ Age + Gender)
```

| <b>id</b> | <b>Age</b>  | <b>Gender</b> | <b>Day.1</b> | <b>Day.2</b> | <b>Day.3</b> | <b>Day.4</b> |
|-----------|-------------|---------------|--------------|--------------|--------------|--------------|
| 1         | <20 years   | Male          | 1            | 0            | 0            | 0            |
| 2         |             |               | 0            | 0            | 1            | 1            |
| 3         |             | Female        | 0            | 0            | 1            | 1            |
| 4         | 21-40 years | Male          | 1            | 0            | 1            | 0            |
| 5         |             |               | 1            | 0            | 1            | 0            |
| 6         |             | Female        | 0            | 0            | 1            | 1            |
| 7         | 41-60 years | Male          | 0            | 1            | 1            | 1            |
| 8         |             |               | 1            | 1            | 0            | 1            |
| 9         |             | Female        | 0            | 0            | 0            | 1            |
| 10        | >60 years   | Male          | 0            | 0            | 0            | 1            |
| 11        |             |               | 1            | 0            | 1            | 0            |
| 12        |             | Female        | 0            | 0            | 1            | 1            |

# Cell merging

```
x <- flextable(study) %>%
  theme_merge() %>%
  merge_v(j = ~ Age + Gender) %>%
  merge_h()
```

| <b>id</b> | <b>Age</b>  | <b>Gender</b> | <b>Day.1</b> | <b>Day.2</b> | <b>Day.3</b> | <b>Day.4</b> |
|-----------|-------------|---------------|--------------|--------------|--------------|--------------|
| 1         | <20 years   | Male          | 1            |              | 0            |              |
| 2         |             |               | 0            |              | 1            |              |
| 3         | 21-40 years | Female        | 0            |              | 1            |              |
| 4         |             | Male          | 1            | 0            | 1            | 0            |
| 5         | 41-60 years | Female        | 1            | 0            | 1            | 0            |
| 6         |             |               | 0            |              | 1            |              |
| 7         | >60 years   | Male          | 0            |              | 1            |              |
| 8         |             |               | 1            |              | 0            | 1            |
| 9         | >60 years   | Female        |              | 0            |              | 1            |
| 10        |             | Male          |              | 0            |              | 1            |
| 11        | >60 years   | Female        | 1            | 0            | 1            | 0            |
| 12        |             |               | 0            |              | 1            |              |

# Header & Footer

On "header" & "footer" part you can :

- Define a whole data.frame
- Add top/bottom lines
- Use format & layout functions

# Header & Footer

Define a data.frame as header

| Sepal  |       | Petal  |       | Species |
|--------|-------|--------|-------|---------|
| Length | Width | Length | Width |         |



|     |     |     |     |        |
|-----|-----|-----|-----|--------|
| 5.1 | 3.5 | 1.4 | 0.2 | setosa |
| 4.9 | 3.0 | 1.4 | 0.2 | setosa |
| 4.7 | 3.2 | 1.3 | 0.2 | setosa |
| 4.6 | 3.1 | 1.5 | 0.2 | setosa |
| 5.0 | 3.6 | 1.4 | 0.2 | setosa |
| 5.4 | 3.9 | 1.7 | 0.4 | setosa |



| Sepal  |       | Petal  |       | Species |
|--------|-------|--------|-------|---------|
| Length | Width | Length | Width |         |
| 5.1    | 3.5   | 1.4    | 0.2   | setosa  |
| 4.9    | 3.0   | 1.4    | 0.2   | setosa  |
| 4.7    | 3.2   | 1.3    | 0.2   | setosa  |
| 4.6    | 3.1   | 1.5    | 0.2   | setosa  |
| 5.0    | 3.6   | 1.4    | 0.2   | setosa  |
| 5.4    | 3.9   | 1.7    | 0.4   | setosa  |

# Header & Footer

Define a `data.frame` as header and/or footer

```
my_header <- data.frame(  
  col_keys = colnames(iris),  
  line1 = c('Sepal', 'Sepal', 'Petal', 'Petal', 'Species'),  
  line2 = c('Length', 'Width', 'Length', 'Width', 'Species'),  
  stringsAsFactors = FALSE  
)
```

# Header & Footer

Define a `data.frame` as header and/or footer

```
my_header <- data.frame(  
  col_keys = colnames(iris),  
  line1 = c('Sepal', 'Sepal', 'Petal', 'Petal', 'Species'),  
  line2 = c('Length', 'Width', 'Length', 'Width', 'Species'),  
  stringsAsFactors = FALSE  
)
```

```
flextable(head(iris)) %>%  
  theme_doc()
```

| Sepal.Length | Sepal.Width | Petal.Length | Petal.Width | Species |
|--------------|-------------|--------------|-------------|---------|
| 5.1          | 3.5         | 1.4          | 0.2         | setosa  |
| 4.9          | 3.0         | 1.4          | 0.2         | setosa  |
| 4.7          | 3.2         | 1.3          | 0.2         | setosa  |
| 4.6          | 3.1         | 1.5          | 0.2         | setosa  |
| 5.0          | 3.6         | 1.4          | 0.2         | setosa  |
| 5.4          | 3.9         | 1.7          | 0.4         | setosa  |

# Header & Footer

Define a `data.frame` as header and/or footer

```
my_header <- data.frame(  
  col_keys = colnames(iris),  
  line1 = c('Sepal', 'Sepal', 'Petal', 'Petal', 'Species'),  
  line2 = c('Length', 'Width', 'Length', 'Width', 'Species'),  
  stringsAsFactors = FALSE  
)
```

```
flextable(head(iris)) %>%  
  theme_doc() %>%  
  set_header_df(  
    mapping = my_header,  
    key = "col_keys"  
)
```

| Sepal  | Sepal | Petal  | Petal | Species |
|--------|-------|--------|-------|---------|
| Length | Width | Length | Width | Species |
| 5.1    | 3.5   | 1.4    | 0.2   | setosa  |
| 4.9    | 3.0   | 1.4    | 0.2   | setosa  |
| 4.7    | 3.2   | 1.3    | 0.2   | setosa  |
| 4.6    | 3.1   | 1.5    | 0.2   | setosa  |
| 5.0    | 3.6   | 1.4    | 0.2   | setosa  |
| 5.4    | 3.9   | 1.7    | 0.4   | setosa  |

# Header & Footer

Define a `data.frame` as header and/or footer

```
my_header <- data.frame(  
  col_keys = colnames(iris),  
  line1 = c('Sepal', 'Sepal', 'Petal', 'Petal', 'Species'),  
  line2 = c('Length', 'Width', 'Length', 'Width', 'Species'),  
  stringsAsFactors = FALSE  
)
```

```
flextable(head(iris)) %>%  
  theme_doc() %>%  
  set_header_df(  
    mapping = my_header,  
    key = "col_keys"  
) %>%  
  merge_v(part = "header") %>%  
  merge_h(part = "header")
```

| Sepal  |       | Petal  |       | Species |
|--------|-------|--------|-------|---------|
| Length | Width | Length | Width |         |
| 5.1    | 3.5   | 1.4    | 0.2   | setosa  |
| 4.9    | 3.0   | 1.4    | 0.2   | setosa  |
| 4.7    | 3.2   | 1.3    | 0.2   | setosa  |
| 4.6    | 3.1   | 1.5    | 0.2   | setosa  |
| 5.0    | 3.6   | 1.4    | 0.2   | setosa  |
| 5.4    | 3.9   | 1.7    | 0.4   | setosa  |

# Header & Footer

Define a `data.frame` as header and/or footer

```
my_header <- data.frame(  
  col_keys = colnames(iris),  
  line1 = c('Sepal', 'Sepal', 'Petal', 'Petal', 'Species'),  
  line2 = c('Length', 'Width', 'Length', 'Width', 'Species'),  
  stringsAsFactors = FALSE  
)
```

```
flextable(head(iris)) %>%  
  theme_doc() %>%  
  set_header_df(  
    mapping = my_header,  
    key = "col_keys"  
) %>%  
  merge_v(part = "header") %>%  
  merge_h(part = "header") %>%  
  set_footer_df(  
    mapping = my_header[, 3:1],  
    key = "col_keys"  
)
```

| Sepal  |       | Petal  |       | Species |
|--------|-------|--------|-------|---------|
| Length | Width | Length | Width |         |
| 5.1    | 3.5   | 1.4    | 0.2   | setosa  |
| 4.9    | 3.0   | 1.4    | 0.2   | setosa  |
| 4.7    | 3.2   | 1.3    | 0.2   | setosa  |
| 4.6    | 3.1   | 1.5    | 0.2   | setosa  |
| 5.0    | 3.6   | 1.4    | 0.2   | setosa  |
| 5.4    | 3.9   | 1.7    | 0.4   | setosa  |
| Length | Width | Length | Width | Species |
| Sepal  | Sepal | Petal  | Petal | Species |

# Header & Footer

Define a `data.frame` as header and/or footer

```
my_header <- data.frame(  
  col_keys = colnames(iris),  
  line1 = c('Sepal', 'Sepal', 'Petal', 'Petal', 'Species'),  
  line2 = c('Length', 'Width', 'Length', 'Width', 'Species'),  
  stringsAsFactors = FALSE  
)
```

```
flextable(head(iris)) %>%  
  theme_doc() %>%  
  set_header_df(  
    mapping = my_header,  
    key = "col_keys"  
) %>%  
  merge_v(part = "header") %>%  
  merge_h(part = "header") %>%  
  set_footer_df(  
    mapping = my_header[, 3:1],  
    key = "col_keys"  
) %>%  
  merge_v(part = "footer") %>%  
  merge_h(part = "footer")
```

| Sepal  |       | Petal  |       | Species |
|--------|-------|--------|-------|---------|
| Length | Width | Length | Width |         |
| 5.1    | 3.5   | 1.4    | 0.2   | setosa  |
| 4.9    | 3.0   | 1.4    | 0.2   | setosa  |
| 4.7    | 3.2   | 1.3    | 0.2   | setosa  |
| 4.6    | 3.1   | 1.5    | 0.2   | setosa  |
| 5.0    | 3.6   | 1.4    | 0.2   | setosa  |
| 5.4    | 3.9   | 1.7    | 0.4   | setosa  |

| Length | Width | Length  | Width | Species |
|--------|-------|---------|-------|---------|
| Sepal  | Petal | Species |       |         |

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality))
```

| Ozone | Solar.R | Wind   | Temp | Month | Day |
|-------|---------|--------|------|-------|-----|
| 41    | 190     | 7.400  | 67   | 5     | 1   |
| 36    | 118     | 8.000  | 72   | 5     | 2   |
| 12    | 149     | 12.600 | 74   | 5     | 3   |
| 18    | 313     | 11.500 | 62   | 5     | 4   |
|       |         | 14.300 | 56   | 5     | 5   |
| 28    |         | 14.900 | 66   | 5     | 6   |

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats()
```

| 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   |

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12"))
```

| 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   |

Wind > 12

Wind < 12

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer")
```

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

Wind > 12

Wind < 12

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer") %>%  
  italic(part = "footer")
```

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

*Wind > 12*

*Wind < 12*

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer") %>%  
  italic(part = "footer") %>%  
  align(align = "right", part = "footer")
```

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

*Wind > 12*

*Wind < 12*

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer") %>%  
  italic(part = "footer") %>%  
  align(align = "right", part = "footer") %>%  
  color(i = 1, part = "footer", color = "#17a589")
```

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

Wind > 12

Wind < 12

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer") %>%  
  italic(part = "footer") %>%  
  align(align = "right", part = "footer") %>%  
  color(i = 1, part = "footer", color = "#17a589") %>%  
  color(i = 2, part = "footer", color = "#ca6f1e")
```

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

Wind > 12

Wind < 12

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer") %>%  
  italic(part = "footer") %>%  
  align(align = "right", part = "footer") %>%  
  color(i = 1, part = "footer", color = "#17a589") %>%  
  color(i = 2, part = "footer", color = "#ca6f1e") %>%  
  add_header_lines(  
    values = c("Daily air quality measurements in New York,  
      May to September 1973."),  
    top = TRUE  
  )
```

Daily air quality measurements in New York, May 1973.

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

Wind > 12

Wind < 12

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer") %>%  
  italic(part = "footer") %>%  
  align(align = "right", part = "footer") %>%  
  color(i = 1, part = "footer", color = "#17a589") %>%  
  color(i = 2, part = "footer", color = "#ca6f1e") %>%  
  add_header_lines(  
    values = c("Daily air quality measurements in New York,  
              May to September 1973."),  
    top = TRUE  
) %>%  
  italic(part = "header")
```

Daily air quality measurements in New York, May 1973.

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

Wind > 12

Wind < 12

# Header & Footer

Add lines on header and footer and apply format functions on them.

```
flextable(head(airquality)) %>%  
  theme_formats() %>%  
  add_footer_lines(c("Wind > 12", "Wind < 12")) %>%  
  bold(part = "footer") %>%  
  italic(part = "footer") %>%  
  align(align = "right", part = "footer") %>%  
  color(i = 1, part = "footer", color = "#17a589") %>%  
  color(i = 2, part = "footer", color = "#ca6f1e") %>%  
  add_header_lines(  
    values = c("Daily air quality measurements in New York,  
              May to September 1973."),  
    top = TRUE  
) %>%  
  italic(part = "header") %>%  
  fontsize(i = 1, part = "header", size = 8)
```

Daily air quality measurements in New York, May 1973.

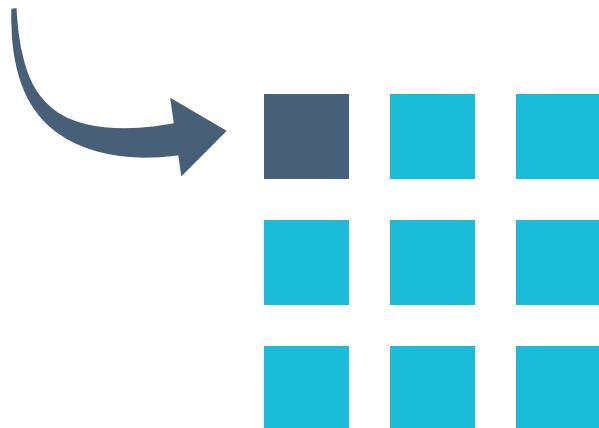
| Ozone | Solar.R | Wind        | Temp | Month | Day |
|-------|---------|-------------|------|-------|-----|
| 41    | 190     | <b>7.4</b>  | 67   | 5     | 1   |
| 36    | 118     | <b>8.0</b>  | 72   | 5     | 2   |
| 12    | 149     | <b>12.6</b> | 74   | 5     | 3   |
| 18    | 313     | <b>11.5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

Wind > 12

Wind < 12

# Write poetry with compose

`compose(i = 1, j = 1, value = ...)`

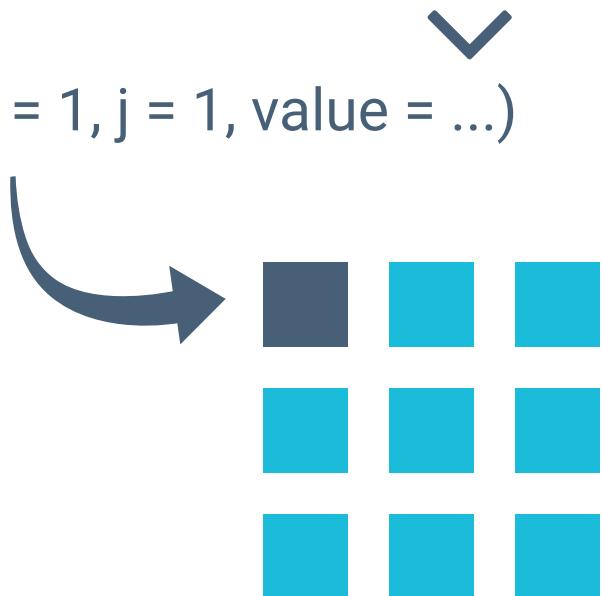


# Write poetry with compose

as\_paragraph( ... )

---

compose(i = 1, j = 1, value = ...)



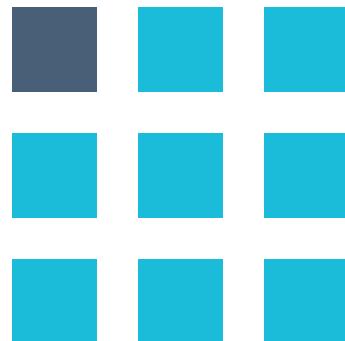
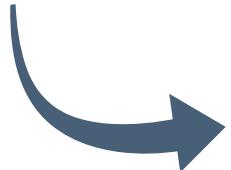
# Write poetry with compose

chunk 1

as\_paragraph( as\_chunk(...) )

---

compose(i = 1, j = 1, value = ...)



# Write poetry with compose

chunk 1

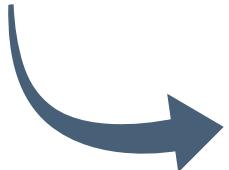
chunk 2

as\_paragraph( as\_chunk(...), as\_chunk(...) )

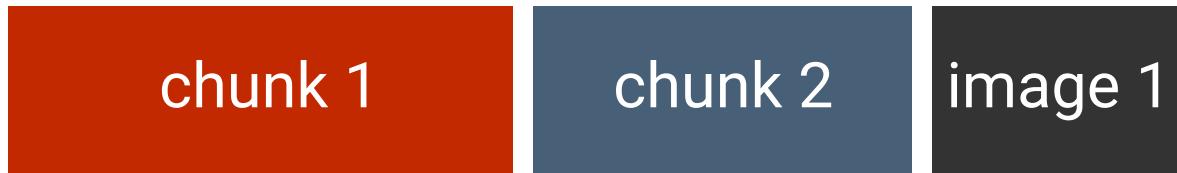
---



compose(i = 1, j = 1, value = ...)



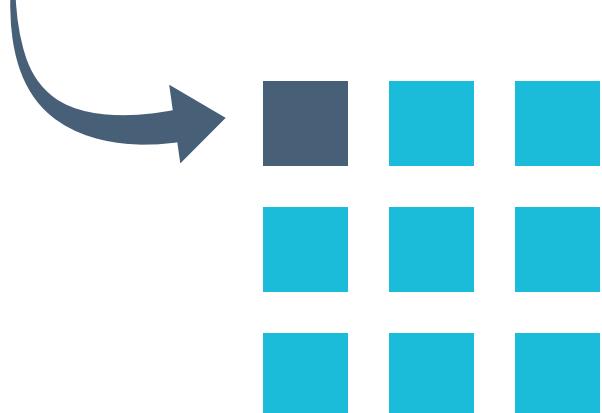
# Write poetry with compose



`as_paragraph( as_chunk(...), as_chunk(...), as_image(...) )`

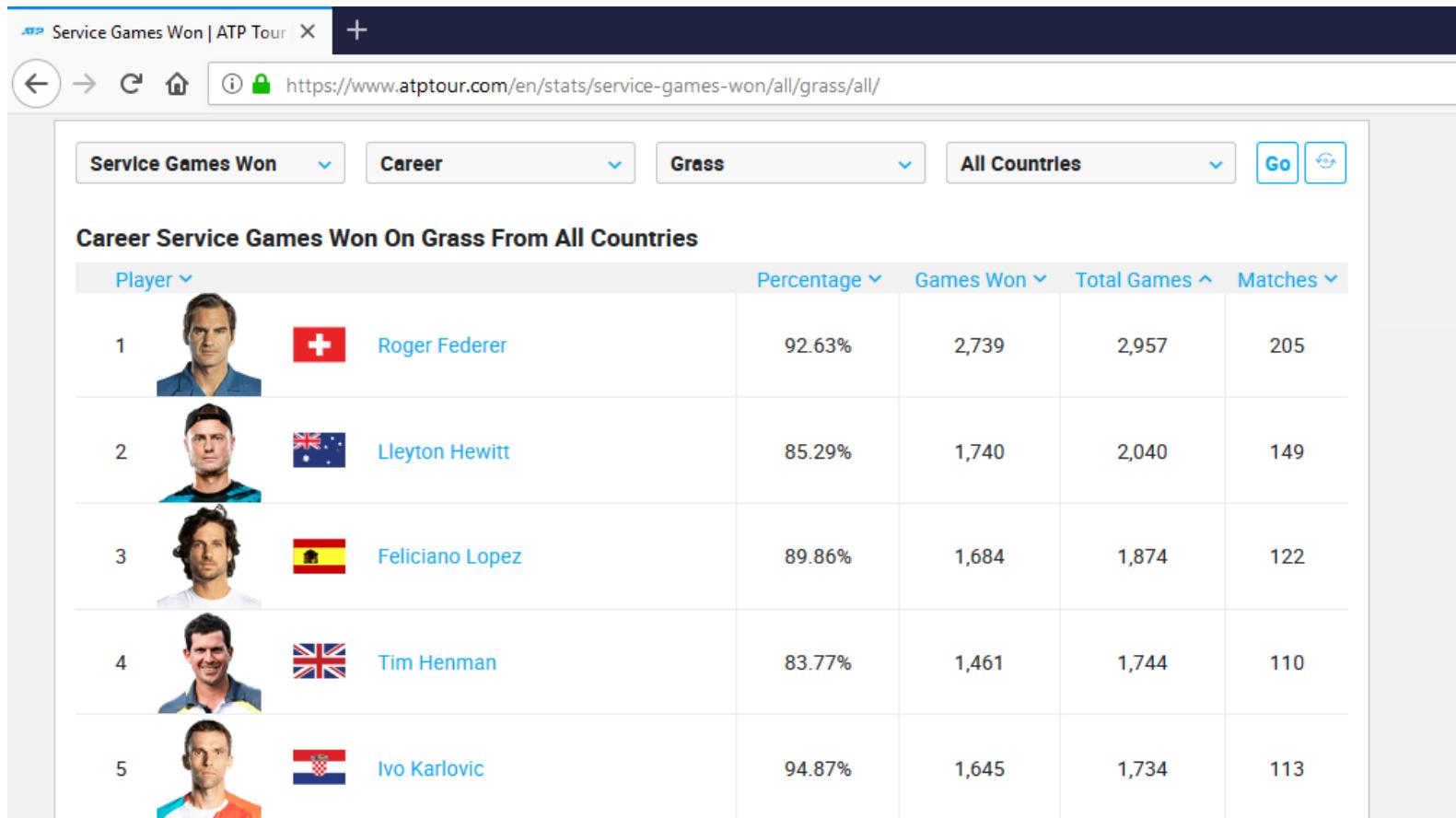
---

`compose(i = 1, j = 1, value = ...)`



# Write poetry with compose

For the next example we will reproduce this table :



The screenshot shows a web browser displaying a statistics page from the ATP Tour website. The URL in the address bar is <https://www.atptour.com/en/stats/service-games-won/all/grass/all/>. The page title is "ATP Service Games Won | ATP Tour". The search filters at the top are set to "Service Games Won", "Career", "Grass", and "All Countries". The main content is titled "Career Service Games Won On Grass From All Countries" and lists the top five players with their names, national flags, and statistics.

| Player            | Percentage | Games Won | Total Games | Matches |
|-------------------|------------|-----------|-------------|---------|
| 1 Roger Federer   | 92.63%     | 2,739     | 2,957       | 205     |
| 2 Lleyton Hewitt  | 85.29%     | 1,740     | 2,040       | 149     |
| 3 Feliciano Lopez | 89.86%     | 1,684     | 1,874       | 122     |
| 4 Tim Henman      | 83.77%     | 1,461     | 1,744       | 110     |
| 5 Ivo Karlovic    | 94.87%     | 1,645     | 1,734       | 113     |

Source : <https://www.atptour.com/en/stats/>

# Write poetry with compose

The data.frame we start from :

```
##   Rank      Player Percentage Games.Won Total.Games Matches
## 1    1 Roger Federer     92.63     2739      2957     205
## 2    2 Lleyton Hewitt    85.29     1740      2040     149
## 3    3 Feliciano Lopez   89.86     1684      1874     122
## 4    4 Ivo Karlovic     94.87     1645      1734     113
##
##                                     head
## 1 ./static/img/players/federer_head.png
## 2 ./static/img/players/hewitt_head.png
## 3 ./static/img/players/lopez_head.png
## 4 ./static/img/players/karlovic_head.png
##
##                                     link
## 1 https://www.atptour.com/en/players/roger-federer/f324/overview
## 2 https://www.atptour.com/en/players/lleyton-hewitt/h432/overview
## 3 https://www.atptour.com/en/players/feliciano-lopez/l397/overview
## 4 https://www.atptour.com/en/players/ivo-karlovic/k336/overview
##
##                                     flag
## 1 ./static/img/flags/sui.svg
## 2 ./static/img/flags/aus.svg
## 3 ./static/img/flags/esp.svg
## 4 ./static/img/flags/cro.svg
```

# Write poetry with compose

```
flextable(x,
  col_keys = c(
    "Player", "Percentage",
    "Games.Won", "Total.Games", "Matches"
  )
)
```

| Player          | Percentage | Games.Won | Total.Games | Matches |
|-----------------|------------|-----------|-------------|---------|
| Roger Federer   | 92.630     | 2739.000  | 2957.000    | 205.000 |
| Lleyton Hewitt  | 85.290     | 1740.000  | 2040.000    | 149.000 |
| Feliciano Lopez | 89.860     | 1684.000  | 1874.000    | 122.000 |
| Ivo Karlovic    | 94.870     | 1645.000  | 1734.000    | 113.000 |
| Andy Murray     | 88.890     | 1528.000  | 1719.000    | 121.000 |
| Pete Sampras    | 92.660     | 1478.000  | 1595.000    | 105.000 |
| Greg Rusedski   | 90.330     | 1476.000  | 1634.000    | 116.000 |
| Tim Henman      | 83.770     | 1461.000  | 1744.000    | 110.000 |
| Novak Djokovic  | 89.120     | 1442.000  | 1618.000    | 106.000 |
| Andy Roddick    | 92.760     | 1410.000  | 1520.000    | 103.000 |

# Write poetry with compose

```
flextable(x,
  col_keys = c(
    "Player", "Percentage",
    "Games.Won", "Total.Games", "Matches"
  )
) %>%
theme_atp()
```

Career Service Games Won On Grass From All Countries

| Player          | Percentage | Games.Won | Total.Games | Matches* |
|-----------------|------------|-----------|-------------|----------|
| Roger Federer   | 92.63%     | 2,739     | 2,957       | 205      |
| Lleyton Hewitt  | 85.29%     | 1,740     | 2,040       | 149      |
| Feliciano Lopez | 89.86%     | 1,684     | 1,874       | 122      |
| Ivo Karlovic    | 94.87%     | 1,645     | 1,734       | 113      |
| Andy Murray     | 88.89%     | 1,528     | 1,719       | 121      |
| Pete Sampras    | 92.66%     | 1,478     | 1,595       | 105      |
| Greg Rusedski   | 90.33%     | 1,476     | 1,634       | 116      |
| Tim Henman      | 83.77%     | 1,461     | 1,744       | 110      |
| Novak Djokovic  | 89.12%     | 1,442     | 1,618       | 106      |
| Andy Roddick    | 92.76%     | 1,410     | 1,520       | 103      |

Source : <https://www.atptour.com/en/stats/>

\*Matches before Wimbledon 2019 starts

# Write poetry with compose

```
flextable(x,
  col_keys = c(
    "Player", "Percentage",
    "Games.Won", "Total.Games", "Matches"
  )
) %>%
theme_atp() %>%
compose(
  j = "Player",
  value = as_paragraph(
    ...
  )
)
```

Career Service Games Won On Grass From All Countries

| Player          | Percentage | Games.Won | Total.Games | Matches* |
|-----------------|------------|-----------|-------------|----------|
| Roger Federer   | 92.63%     | 2,739     | 2,957       | 205      |
| Lleyton Hewitt  | 85.29%     | 1,740     | 2,040       | 149      |
| Feliciano Lopez | 89.86%     | 1,684     | 1,874       | 122      |
| Ivo Karlovic    | 94.87%     | 1,645     | 1,734       | 113      |
| Andy Murray     | 88.89%     | 1,528     | 1,719       | 121      |
| Pete Sampras    | 92.66%     | 1,478     | 1,595       | 105      |
| Greg Rusedski   | 90.33%     | 1,476     | 1,634       | 116      |
| Tim Henman      | 83.77%     | 1,461     | 1,744       | 110      |
| Novak Djokovic  | 89.12%     | 1,442     | 1,618       | 106      |
| Andy Roddick    | 92.76%     | 1,410     | 1,520       | 103      |

Source : <https://www.atptour.com/en/stats/>

\*Matches before Wimbledon 2019 starts

# Write poetry with compose

```
flextable(x,
  col_keys = c(
    "Player", "Percentage",
    "Games.Won", "Total.Games", "Matches"
  )
) %>%
theme_atp() %>%
compose(
  j = "Player",
  value = as_paragraph(
    as_chunk(
      x = Rank,
      formater = function(x) paste(x, " ")
    )
  )
)
```

Career Service Games Won On Grass From All Countries

| Player | Percentage | Games.Won | Total.Games | Matches* |
|--------|------------|-----------|-------------|----------|
| 1      | 92.63%     | 2,739     | 2,957       | 205      |
| 2      | 85.29%     | 1,740     | 2,040       | 149      |
| 3      | 89.86%     | 1,684     | 1,874       | 122      |
| 4      | 94.87%     | 1,645     | 1,734       | 113      |
| 5      | 88.89%     | 1,528     | 1,719       | 121      |
| 6      | 92.66%     | 1,478     | 1,595       | 105      |
| 7      | 90.33%     | 1,476     | 1,634       | 116      |
| 8      | 83.77%     | 1,461     | 1,744       | 110      |
| 9      | 89.12%     | 1,442     | 1,618       | 106      |
| 10     | 92.76%     | 1,410     | 1,520       | 103      |

Source : <https://www.atptour.com/en/stats/>

\*Matches before Wimbledon 2019 starts

# Write poetry with compose

```
flextable(x,
  col_keys = c(
    "Player", "Percentage",
    "Games.Won", "Total.Games", "Matches"
  )
) %>%
theme_atp() %>%
compose(
  j = "Player",
  value = as_paragraph(
    as_chunk(
      x = Rank,
      formater = function(x) paste(x, " ")
    ),
    as_image(src = head, height = 0.5)
  )
)
```

Career Service Games Won On Grass From All Countries

| Player   | Percentage | Games.Won | Total.Games | Matches* |
|--|------------|-----------|-------------|----------|
| 1     | 92.63%     | 2,739     | 2,957       | 205      |
| 2     | 85.29%     | 1,740     | 2,040       | 149      |
| 3     | 89.86%     | 1,684     | 1,874       | 122      |
| 4     | 94.87%     | 1,645     | 1,734       | 113      |
| 5     | 88.89%     | 1,528     | 1,719       | 121      |
| 6     | 92.66%     | 1,478     | 1,595       | 105      |
| 7     | 90.33%     | 1,476     | 1,634       | 116      |
| 8    | 83.77%     | 1,461     | 1,744       | 110      |
| 9   | 89.12%     | 1,442     | 1,618       | 106      |
| 10  | 92.76%     | 1,410     | 1,520       | 103      |

Source : <https://www.atptour.com/en/stats/>

\*Matches before Wimbledon 2019 starts

# Write poetry with compose

```
flextable(x,
  col_keys = c(
    "Player", "Percentage",
    "Games.Won", "Total.Games", "Matches"
  )
) %>%
theme_atp() %>%
compose(
  j = "Player",
  value = as_paragraph(
    as_chunk(
      x = Rank,
      formater = function(x) paste(x, " ")
    ),
    as_image(src = head, height = 0.5),
    as_image(src = flag)
  )
)
```

Career Service Games Won On Grass From All Countries

| Player   | Percentage | Games.Won | Total.Games | Matches* |
|--|------------|-----------|-------------|----------|
| 1        | 92.63%     | 2,739     | 2,957       | 205      |
| 2        | 85.29%     | 1,740     | 2,040       | 149      |
| 3        | 89.86%     | 1,684     | 1,874       | 122      |
| 4        | 94.87%     | 1,645     | 1,734       | 113      |
| 5        | 88.89%     | 1,528     | 1,719       | 121      |
| 6        | 92.66%     | 1,478     | 1,595       | 105      |
| 7        | 90.33%     | 1,476     | 1,634       | 116      |
| 8       | 83.77%     | 1,461     | 1,744       | 110      |
| 9    | 89.12%     | 1,442     | 1,618       | 106      |
| 10   | 92.76%     | 1,410     | 1,520       | 103      |

Source : <https://www.atptour.com/en/stats/>

\*Matches before Wimbledon 2019 starts

# Write poetry with compose

```
flextable(x,
  col_keys = c(
    "Player", "Percentage",
    "Games.Won", "Total.Games", "Matches"
  )
) %>%
theme_atp() %>%
compose(
  j = "Player",
  value = as_paragraph(
    as_chunk(
      x = Rank,
      formater = function(x) paste(x, " ")
    ),
    as_image(src = head, height = 0.5),
    as_image(src = flag),
    hyperlink_text(
      x = Player,
      url = link,
      props = fp_text(
        color = "#00aeef",
        font.family = "Roboto",
        font.size = 10
      )
    )
  )
)
```

Career Service Games Won On Grass From All Countries

| Player   | Percentage | Games.Won | Total.Games | Matches* |
|--|------------|-----------|-------------|----------|
| 1  Roger Federer    | 92.63%     | 2,739     | 2,957       | 205      |
| 2  Lleyton Hewitt   | 85.29%     | 1,740     | 2,040       | 149      |
| 3  Feliciano Lopez  | 89.86%     | 1,684     | 1,874       | 122      |
| 4  Ivo Karlovic     | 94.87%     | 1,645     | 1,734       | 113      |
| 5  Andy Murray      | 88.89%     | 1,528     | 1,719       | 121      |
| 6  Pete Sampras     | 92.66%     | 1,478     | 1,595       | 105      |
| 7  Greg Rusedski    | 90.33%     | 1,476     | 1,634       | 116      |
| 8  Tim Henman      | 83.77%     | 1,461     | 1,744       | 110      |
| 9  Novak Djokovic | 89.12%     | 1,442     | 1,618       | 106      |
| 10  Andy Roddick  | 92.76%     | 1,410     | 1,520       | 103      |

Source : <https://www.atptour.com/en/stats/>

\*Matches before Wimbledon 2019 starts

# R Markdown output

```
---
```

```
title: "flextable to HTML"
output:
  html_document
---
```

```
```{r}
ft <- flextable(mtcars) %>%
  theme_doc
ft
```
```

## R Markdown output comment

`rmarkdown::html_*` Any HTML output is supported

The screenshot shows a web browser window titled "flextable to HTML". The address bar indicates the file is located at "file:///C:/Users/quentin/Documents/work/useR/User2019/outputs/ex\_h.html". The main content area displays the R Markdown code and its output. The output is a flextable object representing the mtcars dataset, styled with a light blue and white color scheme. The browser interface includes standard navigation buttons, a search bar, and a tab labeled "flextable to HTML".

| mpg  | cyl | disp  | hp  | drat | wt  | qsec | vs | am | gear | carb |
|------|-----|-------|-----|------|-----|------|----|----|------|------|
| 21.0 | 6   | 160.0 | 110 | 3.9  | 2.6 | 16.5 | 0  | 1  | 4    | 4    |
| 21.0 | 6   | 160.0 | 110 | 3.9  | 2.9 | 17.0 | 0  | 1  | 4    | 4    |
| 22.8 | 4   | 108.0 | 93  | 3.8  | 2.3 | 18.6 | 1  | 1  | 4    | 1    |
| 21.4 | 6   | 258.0 | 110 | 3.1  | 3.2 | 19.4 | 1  | 0  | 3    | 1    |
| 18.7 | 8   | 360.0 | 175 | 3.1  | 3.4 | 17.0 | 0  | 0  | 3    | 2    |
| 18.1 | 6   | 225.0 | 105 | 2.8  | 3.5 | 20.2 | 1  | 0  | 3    | 1    |
| 14.3 | 8   | 360.0 | 245 | 3.2  | 3.6 | 15.8 | 0  | 0  | 3    | 4    |
| 24.4 | 4   | 146.7 | 62  | 3.7  | 3.2 | 20.0 | 1  | 0  | 4    | 2    |
| 22.8 | 4   | 140.8 | 95  | 3.9  | 3.1 | 22.9 | 1  | 0  | 4    | 2    |
| 19.2 | 6   | 167.6 | 123 | 3.9  | 3.4 | 18.3 | 1  | 0  | 4    | 4    |
| 17.8 | 6   | 167.6 | 123 | 3.9  | 3.4 | 18.9 | 1  | 0  | 4    | 4    |
| 16.4 | 8   | 275.8 | 180 | 3.1  | 4.1 | 17.4 | 0  | 0  | 3    | 3    |
| 17.3 | 8   | 275.8 | 180 | 3.1  | 3.7 | 17.6 | 0  | 0  | 3    | 3    |
| 15.2 | 8   | 275.8 | 180 | 3.1  | 3.8 | 18.0 | 0  | 0  | 3    | 3    |
| 10.4 | 8   | 472.0 | 205 | 2.9  | 5.2 | 18.0 | 0  | 0  | 3    | 4    |
| 10.4 | 8   | 460.0 | 215 | 3.0  | 5.4 | 17.8 | 0  | 0  | 3    | 4    |
| 14.7 | 8   | 440.0 | 230 | 3.2  | 5.3 | 17.4 | 0  | 0  | 3    | 4    |
| 32.4 | 4   | 78.7  | 66  | 4.1  | 2.2 | 19.5 | 1  | 1  | 4    | 1    |
| 30.4 | 4   | 75.7  | 52  | 4.9  | 1.6 | 18.5 | 1  | 1  | 4    | 2    |
| 33.9 | 4   | 71.1  | 65  | 4.2  | 1.8 | 19.9 | 1  | 1  | 4    | 1    |

Example of HTML output

# R Markdown output

```
---
```

```
title: "flextable to docx"
output:
  word_document
---
```

```
```{r}
ft <- flextable(swiss) %>%
  theme_tron_legacy() %>%
  autofit()
ft
```
```

**R Markdown output** **comment**

rmarkdown::word\_document Rendered tables are editable

The screenshot shows a Microsoft Word document window. At the top, the ribbon is visible with tabs like Accueil, Insertion, Conception, Mise en page, Références, Publipostage, Révision, Affichage, Aide, Rechercher des outils adaptés, and Partager. The Accueil tab is selected. Below the ribbon, there are toolbars for Police (Font), Paragraphe, Styles, and Édition. The main content area displays the rendered R Markdown output. A code block is shown on the left:

```
ft <- flextable(swiss) %>%
  theme_tron_legacy() %>%
  autofit()
```

Below the code, a table is displayed with the following data:

| Fertility | Agriculture | Examination | Education | Catholic | Infant.Mortality |
|-----------|-------------|-------------|-----------|----------|------------------|
| 80.200    | 17.000      | 15          | 12        | 9.960    | 22.200           |
| 83.100    | 45.100      | 6           | 9         | 84.840   | 22.200           |
| 92.500    | 39.700      | 5           | 5         | 93.400   | 20.200           |
| 85.800    | 36.500      | 12          | 7         | 33.770   | 20.300           |
| 76.900    | 43.500      | 17          | 15        | 5.160    | 20.600           |
| 76.100    | 35.300      | 9           | 7         | 90.570   | 26.600           |
| 83.800    | 70.200      | 16          | 7         | 92.850   | 23.600           |
| 92.400    | 67.800      | 14          | 8         | 97.160   | 24.900           |
| 82.400    | 53.300      | 12          | 7         | 97.670   | 21.000           |
| 82.900    | 45.200      | 16          | 13        | 91.380   | 24.400           |
| 87.100    | 64.500      | 14          | 6         | 98.610   | 24.500           |
| 64.100    | 62.000      | 21          | 12        | 8.520    | 16.500           |
| 66.900    | 67.500      | 14          | 7         | 2.270    | 19.100           |
| 68.900    | 60.700      | 19          | 12        | 4.430    | 22.700           |
| 61.700    | 69.300      | 22          | 5         | 2.820    | 18.700           |
| 68.300    | 72.600      | 18          | 2         | 24.200   | 21.200           |
| 71.700    | 34.000      | 17          | 8         | 3.300    | 20.000           |
| 55.700    | 19.400      | 26          | 28        | 12.110   | 20.200           |

At the bottom of the Word window, the status bar shows 'Page 1 sur 2 299 mots'. The bottom right corner of the slide shows a zoom level of 100%.

# R Markdown output

```
---
```

```
title: "flextable to pptx"
output:
  powerpoint_presentation
---

```{r}
ft <- flextable(longley) %>%
  theme_box() %>%
  autofit()
ft
```

```

**R Markdown output**      **comment**

`rmarkdown::powerpoint_presentation` Rendered tables are editable

The screenshot shows a Microsoft PowerPoint slide titled "Flextable to pptx". The slide content includes a red box highlighting a "flextable" (a table with specific styling). Below the table is a caption: "Cliquez pour ajouter des notes". The table data is as follows:

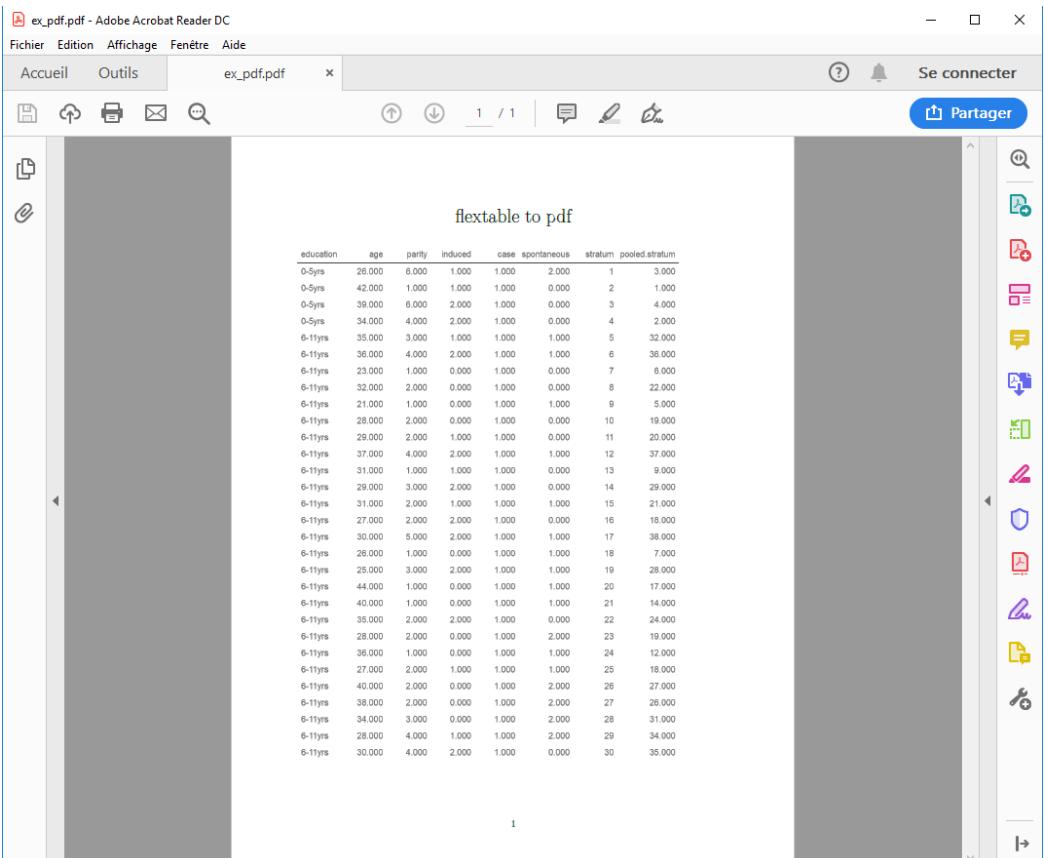
| GNP.deflator | GNP     | Unemployed | Armed.Forces | Population | Year | Employed |
|--------------|---------|------------|--------------|------------|------|----------|
| 83.000       | 234.289 | 235.600    | 159.000      | 107.608    | 1947 | 60.323   |
| 88.500       | 259.426 | 232.500    | 145.600      | 108.632    | 1948 | 61.122   |
| 88.200       | 258.054 | 368.200    | 161.600      | 109.773    | 1949 | 60.171   |
| 89.500       | 284.599 | 335.100    | 165.000      | 110.929    | 1950 | 61.187   |
| 96.200       | 328.975 | 209.900    | 309.900      | 112.075    | 1951 | 63.221   |
| 98.100       | 346.999 | 193.200    | 359.400      | 113.270    | 1952 | 63.639   |
| 99.000       | 365.385 | 187.000    | 354.700      | 115.094    | 1953 | 64.989   |
| 100.000      | 363.112 | 357.800    | 335.000      | 116.219    | 1954 | 63.761   |
| 101.200      | 397.469 | 290.400    | 304.800      | 117.388    | 1955 | 66.019   |
| 104.600      | 419.180 | 282.200    | 285.700      | 118.734    | 1956 | 67.857   |
| 108.400      | 442.769 | 293.600    | 279.800      | 120.445    | 1957 | 68.169   |
| 110.800      | 444.546 | 468.100    | 263.700      | 121.950    | 1958 | 66.513   |
| 112.600      | 482.704 | 381.300    | 255.200      | 123.366    | 1959 | 68.655   |
| 114.200      | 502.601 | 393.100    | 251.400      | 125.368    | 1960 | 69.564   |
| 115.700      | 518.173 | 480.600    | 257.200      | 127.852    | 1961 | 69.331   |
| 116.900      | 554.894 | 400.700    | 282.700      | 130.081    | 1962 | 70.551   |

# R Markdown output

```
---
```

```
title: "flextable to pdf"
output:
  pdf_document
---
```

```
```{r}
ft <- flextable(head(infert)) %>%
  theme_alafofoli()
ft
```
```

| R Markdown output   |                      |  |  |  |  |  | comment |
|---|----------------------|--|--|--|--|--|---------|
| <pre>rmarkdown:::pdf_document</pre>   | Rendered as an image |  |  |  |  |  |         |
|  |                      |  |  |  |  |  |         |

The screenshot shows a PDF document titled "flextable to pdf" generated by R Markdown. The PDF contains a single table with the following data:

| education | age    | parity | induced | case  | spontaneous | stratum | pooled stratum |
|-----------|--------|--------|---------|-------|-------------|---------|----------------|
| 0-5yrs    | 26.000 | 6.000  | 1.000   | 1.000 | 2.000       | 1       | 3.000          |
| 0-5yrs    | 42.000 | 1.000  | 1.000   | 1.000 | 0.000       | 2       | 1.000          |
| 0-5yrs    | 39.000 | 6.000  | 2.000   | 1.000 | 0.000       | 3       | 4.000          |
| 0-5yrs    | 34.000 | 4.000  | 2.000   | 1.000 | 0.000       | 4       | 2.000          |
| 6-11yrs   | 35.000 | 3.000  | 1.000   | 1.000 | 1.000       | 5       | 32.000         |
| 6-11yrs   | 36.000 | 4.000  | 2.000   | 1.000 | 1.000       | 6       | 38.000         |
| 6-11yrs   | 23.000 | 1.000  | 0.000   | 1.000 | 0.000       | 7       | 6.000          |
| 6-11yrs   | 32.000 | 2.000  | 0.000   | 1.000 | 0.000       | 8       | 22.000         |
| 6-11yrs   | 21.000 | 1.000  | 0.000   | 1.000 | 1.000       | 9       | 5.000          |
| 6-11yrs   | 28.000 | 2.000  | 0.000   | 1.000 | 0.000       | 10      | 19.000         |
| 6-11yrs   | 29.000 | 2.000  | 1.000   | 1.000 | 0.000       | 11      | 20.000         |
| 6-11yrs   | 37.000 | 4.000  | 2.000   | 1.000 | 1.000       | 12      | 37.000         |
| 6-11yrs   | 31.000 | 1.000  | 1.000   | 1.000 | 0.000       | 13      | 9.000          |
| 6-11yrs   | 29.000 | 3.000  | 2.000   | 1.000 | 0.000       | 14      | 29.000         |
| 6-11yrs   | 31.000 | 2.000  | 1.000   | 1.000 | 1.000       | 15      | 21.000         |
| 6-11yrs   | 27.000 | 2.000  | 2.000   | 1.000 | 0.000       | 16      | 18.000         |
| 6-11yrs   | 30.000 | 5.000  | 2.000   | 1.000 | 1.000       | 17      | 38.000         |
| 6-11yrs   | 26.000 | 1.000  | 0.000   | 1.000 | 1.000       | 18      | 7.000          |
| 6-11yrs   | 25.000 | 3.000  | 2.000   | 1.000 | 1.000       | 19      | 28.000         |
| 6-11yrs   | 44.000 | 1.000  | 0.000   | 1.000 | 1.000       | 20      | 17.000         |
| 6-11yrs   | 40.000 | 1.000  | 0.000   | 1.000 | 1.000       | 21      | 14.000         |
| 6-11yrs   | 35.000 | 2.000  | 2.000   | 1.000 | 0.000       | 22      | 24.000         |
| 6-11yrs   | 28.000 | 2.000  | 0.000   | 1.000 | 2.000       | 23      | 19.000         |
| 6-11yrs   | 36.000 | 1.000  | 0.000   | 1.000 | 1.000       | 24      | 12.000         |
| 6-11yrs   | 27.000 | 2.000  | 1.000   | 1.000 | 1.000       | 25      | 18.000         |
| 6-11yrs   | 40.000 | 2.000  | 0.000   | 1.000 | 2.000       | 26      | 27.000         |
| 6-11yrs   | 38.000 | 2.000  | 0.000   | 1.000 | 2.000       | 27      | 28.000         |
| 6-11yrs   | 34.000 | 3.000  | 0.000   | 1.000 | 2.000       | 28      | 31.000         |
| 6-11yrs   | 28.000 | 4.000  | 1.000   | 1.000 | 2.000       | 29      | 34.000         |
| 6-11yrs   | 30.000 | 4.000  | 2.000   | 1.000 | 0.000       | 30      | 35.000         |

# R Markdown output

| R Markdown output   | comment   |         |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
|---|---|---------|--------|--------|------|------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|--------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|--------|-------|---|--------|-------|--------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|---|--------|-------|-------|-------|--------|------|---------|--------|---|---|--------|---|---|--------|---|---|--------|---|---|--------|---|---|--------|---|---|
| <pre>---</pre> <pre>title: "flextable to a Multi-page HTML Document" output:   pagedown::html_paged:     self_contained: true ---</pre> <pre>flextable 1</pre> <pre>```{r} ft &lt;- flextable(head(Theoph)) %&gt;%   theme_vader() ft ``` </pre> <pre>flextable 2</pre> <pre>```{r} ft &lt;- flextable(head(warpbreaks)) %&gt;%   theme_vanilla() ft ``` </pre> | <p>pagedown::html_paged Our prefered solution to produce PDF</p> <p>flextable to a Multi-page HTML Document</p> <p>flextable 1</p> <pre>ft &lt;- flextable(head(Theoph, n= 10)) %&gt;%<br/>theme_vader()<br/>ft</pre> <table border="1"><thead><tr><th>Subject</th><th>WT</th><th>Dose</th><th>Time</th><th>conc</th></tr></thead><tbody><tr><td>1</td><td>79.600</td><td>4.020</td><td>0.000</td><td>0.740</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>0.250</td><td>2.840</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>0.570</td><td>6.570</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>1.120</td><td>10.900</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>2.020</td><td>9.660</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>3.820</td><td>8.530</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>5.100</td><td>8.360</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>7.030</td><td>7.470</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>9.050</td><td>6.980</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>12.120</td><td>5.940</td></tr><tr><td>1</td><td>79.600</td><td>4.020</td><td>24.370</td><td>3.230</td></tr><tr><td>2</td><td>72.400</td><td>4.400</td><td>0.000</td><td>0.000</td></tr><tr><td>2</td><td>72.400</td><td>4.400</td><td>0.270</td><td>1.720</td></tr><tr><td>2</td><td>72.400</td><td>4.400</td><td>0.520</td><td>7.910</td></tr><tr><td>2</td><td>72.400</td><td>4.400</td><td>1.000</td><td>8.310</td></tr><tr><td>2</td><td>72.400</td><td>4.400</td><td>1.820</td><td>8.310</td></tr></tbody></table> <p>flextable 2</p> <pre>ft &lt;- flextable(head(warpbreaks)) %&gt;% theme_vanilla() ft</pre> <table border="1"><thead><tr><th>breaks</th><th>wool</th><th>tension</th></tr></thead><tbody><tr><td>26.000</td><td>A</td><td>L</td></tr><tr><td>30.000</td><td>A</td><td>L</td></tr><tr><td>54.000</td><td>A</td><td>L</td></tr><tr><td>25.000</td><td>A</td><td>L</td></tr><tr><td>70.000</td><td>A</td><td>L</td></tr><tr><td>52.000</td><td>A</td><td>L</td></tr></tbody></table> | Subject | WT     | Dose   | Time | conc | 1 | 79.600 | 4.020 | 0.000 | 0.740 | 1 | 79.600 | 4.020 | 0.250 | 2.840 | 1 | 79.600 | 4.020 | 0.570 | 6.570 | 1 | 79.600 | 4.020 | 1.120 | 10.900 | 1 | 79.600 | 4.020 | 2.020 | 9.660 | 1 | 79.600 | 4.020 | 3.820 | 8.530 | 1 | 79.600 | 4.020 | 5.100 | 8.360 | 1 | 79.600 | 4.020 | 7.030 | 7.470 | 1 | 79.600 | 4.020 | 9.050 | 6.980 | 1 | 79.600 | 4.020 | 12.120 | 5.940 | 1 | 79.600 | 4.020 | 24.370 | 3.230 | 2 | 72.400 | 4.400 | 0.000 | 0.000 | 2 | 72.400 | 4.400 | 0.270 | 1.720 | 2 | 72.400 | 4.400 | 0.520 | 7.910 | 2 | 72.400 | 4.400 | 1.000 | 8.310 | 2 | 72.400 | 4.400 | 1.820 | 8.310 | breaks | wool | tension | 26.000 | A | L | 30.000 | A | L | 54.000 | A | L | 25.000 | A | L | 70.000 | A | L | 52.000 | A | L |
| Subject   | WT  | Dose    | Time   | conc   |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 0.000  | 0.740  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 0.250  | 2.840  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 0.570  | 6.570  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 1.120  | 10.900 |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 2.020  | 9.660  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 3.820  | 8.530  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 5.100  | 8.360  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 7.030  | 7.470  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 9.050  | 6.980  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 12.120 | 5.940  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 1   | 79.600  | 4.020   | 24.370 | 3.230  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 2   | 72.400  | 4.400   | 0.000  | 0.000  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 2   | 72.400  | 4.400   | 0.270  | 1.720  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 2   | 72.400  | 4.400   | 0.520  | 7.910  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 2   | 72.400  | 4.400   | 1.000  | 8.310  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 2   | 72.400  | 4.400   | 1.820  | 8.310  |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| breaks  | wool  | tension |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 26.000  | A   | L       |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 30.000  | A   | L       |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 54.000  | A   | L       |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 25.000  | A   | L       |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 70.000  | A   | L       |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |
| 52.000  | A   | L       |        |        |      |      |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |        |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |        |       |   |        |       |        |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |   |        |       |       |       |        |      |         |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |        |   |   |

# flextable in Shiny

Show a **flextable** in a Shiny application : too easy !

```
library(shiny)
library(flextable)

datasets <- c("iris", "mtcars", "airquality",
  "quakes", "CO2", "rock", "sleep")

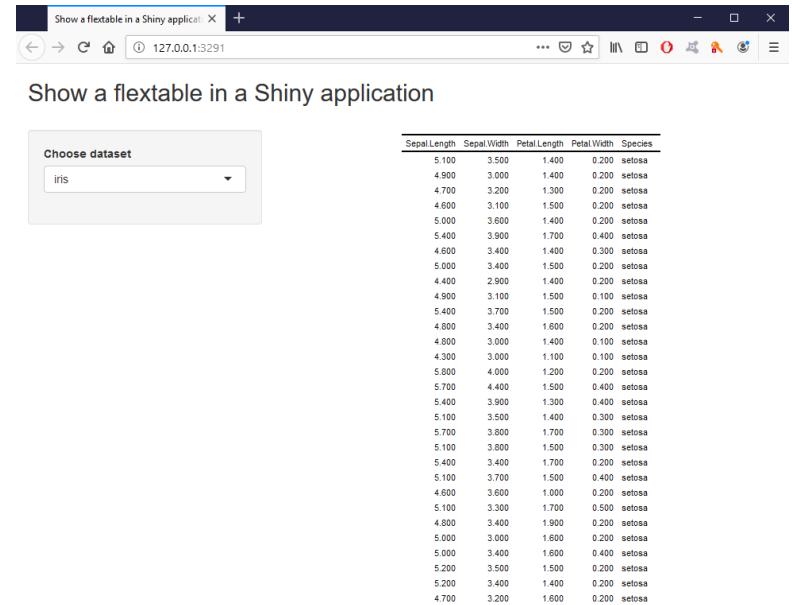
ui <- fluidPage(
  titlePanel("Show a flextable in Shiny application"),
  sidebarLayout(
    sidebarPanel(
      selectInput("SI_dataset",
        label = "Choose dataset", choices = datasets)
    ),
    mainPanel(
      uiOutput("dataset_flextable")
    )
  )
)

server <- function(input, output) {

  output$dataset_flextable <- renderUI({
    req(input$SI_dataset)

    get(input$SI_dataset) %>%
      head(n = 10) %>%
      flextable() %>%
      theme_booktabs() %>%
      htmltools_value()
  })
}

shinyApp(ui = ui, server = server)
```



The screenshot shows a web browser window titled "Show a flextable in a Shiny application". The URL is 127.0.0.1:3291. The page contains a "Choose dataset" dropdown menu with "iris" selected. To the right is a "flextable" displaying the first 10 rows of the iris dataset. The columns are labeled: Sepal.Length, Sepal.Width, Petal.Length, Petal.Width, and Species. The data shows various measurements for different species of Iris flowers.

| Sepal.Length | Sepal.Width | Petal.Length | Petal.Width | Species |
|--------------|-------------|--------------|-------------|---------|
| 5.100        | 3.500       | 1.400        | 0.200       | setosa  |
| 4.900        | 3.000       | 1.400        | 0.200       | setosa  |
| 4.700        | 3.200       | 1.300        | 0.200       | setosa  |
| 4.600        | 3.100       | 1.500        | 0.200       | setosa  |
| 5.000        | 3.600       | 1.400        | 0.200       | setosa  |
| 5.400        | 3.900       | 1.700        | 0.400       | setosa  |
| 4.600        | 3.400       | 1.400        | 0.300       | setosa  |
| 5.000        | 3.400       | 1.500        | 0.200       | setosa  |
| 4.400        | 2.900       | 1.400        | 0.200       | setosa  |
| 4.900        | 3.100       | 1.500        | 0.100       | setosa  |
| 5.400        | 3.700       | 1.500        | 0.200       | setosa  |
| 4.600        | 3.400       | 1.600        | 0.200       | setosa  |
| 4.600        | 3.000       | 1.400        | 0.100       | setosa  |
| 4.300        | 3.000       | 1.100        | 0.100       | setosa  |
| 5.800        | 4.000       | 1.200        | 0.200       | setosa  |
| 5.700        | 4.400       | 1.500        | 0.400       | setosa  |
| 5.400        | 3.900       | 1.300        | 0.400       | setosa  |
| 5.100        | 3.500       | 1.400        | 0.300       | setosa  |
| 5.700        | 3.800       | 1.700        | 0.300       | setosa  |
| 5.100        | 3.800       | 1.500        | 0.300       | setosa  |
| 5.400        | 3.400       | 1.700        | 0.200       | setosa  |
| 5.100        | 3.700       | 1.500        | 0.400       | setosa  |
| 4.600        | 3.600       | 1.000        | 0.200       | setosa  |
| 5.100        | 3.300       | 1.700        | 0.500       | setosa  |
| 4.800        | 3.400       | 1.900        | 0.200       | setosa  |
| 5.000        | 3.000       | 1.600        | 0.200       | setosa  |
| 5.000        | 3.400       | 1.600        | 0.400       | setosa  |
| 5.200        | 3.500       | 1.500        | 0.200       | setosa  |
| 5.200        | 3.400       | 1.400        | 0.200       | setosa  |
| 4.700        | 3.200       | 1.600        | 0.200       | setosa  |

# flextable in Shiny

Show a **flextable** in a Shiny application : too easy !

```
library(shiny)
library(flextable)

datasets <- c("iris", "mtcars", "airquality",
  "quakes", "CO2", "rock", "sleep")

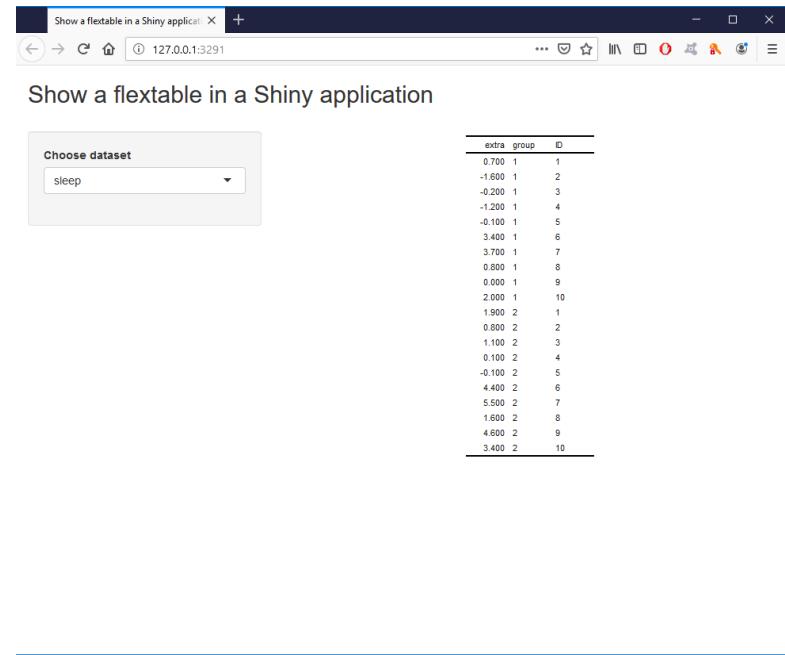
ui <- fluidPage(
  titlePanel("Show a flextable in Shiny application"),
  sidebarLayout(
    sidebarPanel(
      selectInput("SI_dataset",
        label = "Choose dataset", choices = datasets)
    ),
    mainPanel(
      uiOutput("dataset_flextable")
    )
  )
)

server <- function(input, output) {

  output$dataset_flextable <- renderUI({
    req(input$SI_dataset)

    get(input$SI_dataset) %>%
      head(n = 10) %>%
      flextable() %>%
      theme_booktabs() %>%
      htmltools_value()
  })
}

shinyApp(ui = ui, server = server)
```



The screenshot shows a Shiny application window titled "Show a flextable in a Shiny application". The URL in the address bar is "127.0.0.1:3291". On the left, there is a sidebar with a dropdown menu labeled "Choose dataset" containing the option "Sleep". The main panel displays a "flextable" showing the first 10 rows of the "sleep" dataset. The table has three columns: "extra", "group", and "ID". The data is as follows:

| extra  | group | ID |
|--------|-------|----|
| 0.700  | 1     | 1  |
| -1.600 | 1     | 2  |
| -0.200 | 1     | 3  |
| -1.200 | 1     | 4  |
| -0.100 | 1     | 5  |
| 3.400  | 1     | 6  |
| 3.700  | 1     | 7  |
| 0.800  | 1     | 8  |
| 0.000  | 1     | 9  |
| 2.000  | 1     | 10 |
| 1.900  | 2     | 1  |
| 0.800  | 2     | 2  |
| 1.100  | 2     | 3  |
| 0.100  | 2     | 4  |
| -0.100 | 2     | 5  |
| 4.400  | 2     | 6  |
| 5.500  | 2     | 7  |
| 1.600  | 2     | 8  |
| 4.600  | 2     | 9  |
| 3.400  | 2     | 10 |

# flextable in Shiny

Show a **flextable** in a Shiny application : too easy !

```
library(shiny)
library(flextable)

datasets <- c("iris", "mtcars", "airquality",
  "quakes", "CO2", "rock", "sleep")

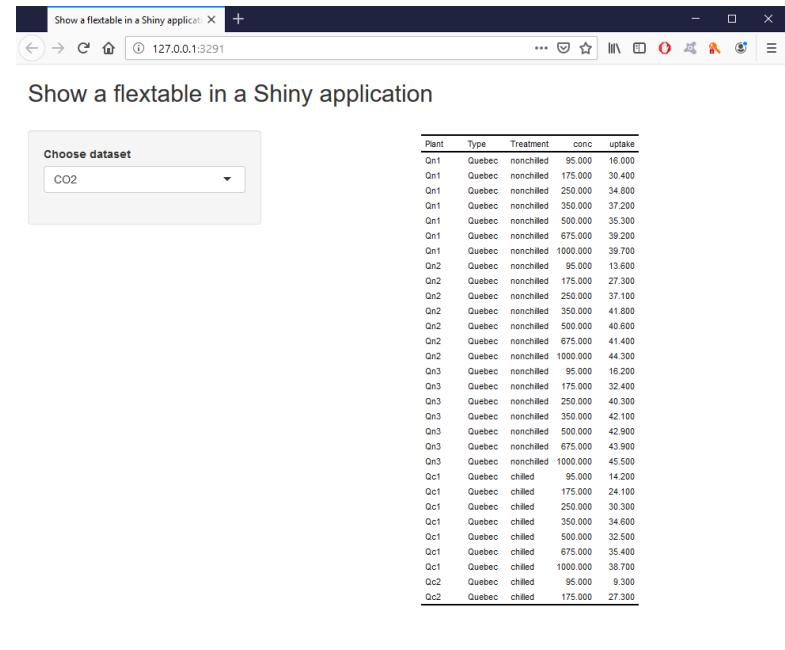
ui <- fluidPage(
  titlePanel("Show a flextable in Shiny application")
  sidebarLayout(
    sidebarPanel(
      selectInput("SI_dataset",
        label = "Choose dataset", choices = datasets)
    ),
    mainPanel(
      uiOutput("dataset_flextable")
    )
  )
)

server <- function(input, output) {

  output$dataset_flextable <- renderUI({
    req(input$SI_dataset)

    get(input$SI_dataset) %>%
      head(n = 10) %>%
      flextable() %>%
      theme_booktabs() %>%
      htmltools_value()
  })
}

shinyApp(ui = ui, server = server)
```



The screenshot shows a web browser window titled "Show a flextable in a Shiny application". The URL is 127.0.0.1:3291. The page content includes a title "Show a flextable in a Shiny application" and a dropdown menu labeled "Choose dataset" with "CO2" selected. To the right is a data table with the following columns: Plant, Type, Treatment, conc, and uptake. The data consists of 40 rows of simulated data for the CO2 dataset.

| Plant | Type   | Treatment  | conc     | uptake |
|-------|--------|------------|----------|--------|
| Qn1   | Quebec | nonchilled | 95.000   | 16.000 |
| Qn1   | Quebec | nonchilled | 175.000  | 30.400 |
| Qn1   | Quebec | nonchilled | 250.000  | 34.800 |
| Qn1   | Quebec | nonchilled | 350.000  | 37.200 |
| Qn1   | Quebec | nonchilled | 500.000  | 35.300 |
| Qn1   | Quebec | nonchilled | 675.000  | 39.200 |
| Qn1   | Quebec | nonchilled | 1000.000 | 39.700 |
| Qn2   | Quebec | nonchilled | 95.000   | 13.600 |
| Qn2   | Quebec | nonchilled | 175.000  | 27.300 |
| Qn2   | Quebec | nonchilled | 250.000  | 37.100 |
| Qn2   | Quebec | nonchilled | 350.000  | 41.800 |
| Qn2   | Quebec | nonchilled | 500.000  | 40.600 |
| Qn2   | Quebec | nonchilled | 675.000  | 41.400 |
| Qn2   | Quebec | nonchilled | 1000.000 | 44.300 |
| Qn3   | Quebec | nonchilled | 95.000   | 16.200 |
| Qn3   | Quebec | nonchilled | 175.000  | 32.400 |
| Qn3   | Quebec | nonchilled | 250.000  | 40.300 |
| Qn3   | Quebec | nonchilled | 350.000  | 42.100 |
| Qn3   | Quebec | nonchilled | 500.000  | 42.900 |
| Qn3   | Quebec | nonchilled | 675.000  | 43.900 |
| Qn3   | Quebec | nonchilled | 1000.000 | 45.500 |
| Qc1   | Quebec | chilled    | 95.000   | 14.200 |
| Qc1   | Quebec | chilled    | 175.000  | 24.100 |
| Qc1   | Quebec | chilled    | 250.000  | 30.300 |
| Qc1   | Quebec | chilled    | 350.000  | 34.600 |
| Qc1   | Quebec | chilled    | 500.000  | 32.500 |
| Qc1   | Quebec | chilled    | 675.000  | 35.400 |
| Qc1   | Quebec | chilled    | 1000.000 | 38.700 |
| Qc2   | Quebec | chilled    | 95.000   | 9.300  |
| Qc2   | Quebec | chilled    | 175.000  | 27.300 |

# flextableUI

# flextableUI

The screenshot shows a web application running at `127.0.0.1:3120/`. The main content area displays a table titled "flextableUI" containing data about US Presidents:

| name       | start      | end        | party      |
|------------|------------|------------|------------|
| Eisenhower | 1953-01-20 | 1961-01-20 | Republican |
| Kennedy    | 1961-01-20 | 1963-11-22 | Democratic |
| Johnson    | 1963-11-22 | 1969-01-20 | Democratic |
| Nixon      | 1969-01-20 | 1974-08-09 | Republican |
| Ford       | 1974-08-09 | 1977-01-20 | Republican |
| Carter     | 1977-01-20 | 1981-01-20 | Democratic |
| Reagan     | 1981-01-20 | 1989-01-20 | Republican |
| Bush       | 1989-01-20 | 1993-01-20 | Republican |

To the right of the table is a sidebar with the title "flextable(presidential)". Below the table, there is a section titled "Choose your dataset" with three options:

- Current dataset : presidential
- From environment
- From file

At the bottom of the page, there is a navigation bar with icons for Data, Header, Merge, Theme, Layout, and Footer.

# flextableUI

The screenshot shows the flextableUI application running in a web browser at 127.0.0.1:3120. The main content area displays a table of US presidents with columns for name, party, start date, and end date. A code editor on the right shows the R code used to generate the table.

| name       | party      | start      | end        |
|------------|------------|------------|------------|
| Eisenhower | Republican | 1953-01-20 | 1961-01-20 |
| Kennedy    | Democratic | 1961-01-20 | 1963-11-22 |
| Johnson    | Democratic | 1963-11-22 | 1969-01-20 |
| Nixon      | Republican | 1969-01-20 | 1974-08-09 |
| Ford       | Republican | 1974-08-09 | 1977-01-20 |
| Carter     | Democratic | 1977-01-20 | 1981-01-20 |
| Reagan     | Republican | 1981-01-20 | 1989-01-20 |
| Bush       | Republican | 1989-01-20 | 1993-01-20 |

**Code Editor:**

```
flextable(presidential, col_keys = c("name", "party", "sep",
"start", "end"))
```

**Select/Order variables and create separators:**

name party sep start end

**Rename variables:**

Manual  R code

Search by variable name: search...

Initial name New name

|         |       |
|---------|-------|
| name :  | name  |
| party : | party |
| start : | start |

Buttons: Data, Header, Merge, Theme, Layout, Footer

# flextableUI

127.0.0.1:3120/

127.0.0.1:3120

Cancel Done

flextableUI

```
flextable(presidential, col_keys = c("name", "party", "sep", "start", "end)) %>% merge_v(part = "body", j = "party")
```

| name       | party      | start      | end        |
|------------|------------|------------|------------|
| Eisenhower | Republican | 1953-01-20 | 1961-01-20 |
| Kennedy    | Democratic | 1961-01-20 | 1963-11-22 |
| Johnson    | Democratic | 1963-11-22 | 1969-01-20 |
| Nixon      | Republican | 1969-01-20 | 1974-08-09 |
| Ford       | Republican | 1974-08-09 | 1977-01-20 |
| Carter     | Democratic | 1977-01-20 | 1981-01-20 |
| Reagan     | Republican | 1981-01-20 | 1989-01-20 |
| Bush       | Republican | 1989-01-20 | 1993-01-20 |

List of merge(s) applied

| # | Direction | Part | Details | Actions |
|---|-----------|------|---------|---------|
| 1 | v         | body |         |         |

Add a new merge

**Direction**

Horizontally  
 Vertically

**Part**

header  
 body  
 footer

**Column(s) selection**

party

Add !

Data Header Merge Theme Layout Footer

# flextableUI

The screenshot shows a web-based application window titled "flextableUI". The URL in the address bar is "127.0.0.1:3120". The main content area displays a table of US Presidents with their party and terms:

| name       | party      | start      | end        |
|------------|------------|------------|------------|
| Eisenhower | Republican | 1953-01-20 | 1961-01-20 |
| Kennedy    | Democratic | 1961-01-20 | 1963-11-22 |
| Johnson    | Democratic | 1963-11-22 | 1969-01-20 |
| Nixon      | Republican | 1969-01-20 | 1974-08-09 |
| Ford       | Republican | 1974-08-09 | 1977-01-20 |
| Carter     | Democratic | 1977-01-20 | 1981-01-20 |
| Reagan     | Republican | 1981-01-20 | 1989-01-20 |
| Rush       | Republican | 1989-01-20 | 1993-01-20 |

To the right of the table, a code block shows the R code used to generate it:

```
flextable(presidential, col_keys = c("name", "party", "sep",
  "start", "end")) %>% merge_v(part = "body", j = "party") %>%
  theme_tron_legacy()
```

Below the table, a "Theme" section allows selecting a styling theme. The "tron\_legacy" theme is currently selected, highlighted with a blue background. Other themes listed include alafoli, booktabs, box, tron, vader, vanilla, and zebra.

At the bottom of the screen, there are six navigation icons with labels: Data, Header, Merge, Theme, Layout, and Footer.

# flextableUI

127.0.0.1:3120/

127.0.0.1:3120

Cancel Done

flextableUI

```
flextable(presidential, col_keys = c("name", "party", "sep",
"start", "end")) %>% merge_v(part = "body", j = "party") %>%
  autofit(add_w = 0.15, add_h = 0.1) %>% theme_tron_legacy()
```

| name       | party      | start      | end        |
|------------|------------|------------|------------|
| Eisenhower | Republican | 1953-01-20 | 1961-01-20 |
| Kennedy    | Democratic | 1961-01-20 | 1963-11-22 |
| Johnson    |            | 1963-11-22 | 1969-01-20 |
| Nixon      | Republican | 1969-01-20 | 1974-08-09 |
| Ford       |            | 1974-08-09 | 1977-01-20 |
| Carter     | Democratic | 1977-01-20 | 1981-01-20 |
| Reagan     | Republican | 1981-01-20 | 1989-01-20 |

Autofit

Extra width to add (inches)  
0,15

Extra height to add (inches)  
0,1

Fix border issues

Data Header Merge Theme Layout Footer

# flextableUI

The screenshot shows a web-based application interface for managing data frames. A modal dialog box is centered over the main content, displaying a success message: "Thank you for your attention! |". Above the message are three buttons: a plus sign (+), a minus sign (-), and a circular arrow labeled "reset". Below the message is a text field containing "1 line(s) added". At the bottom of the dialog are two buttons: "Choose" and "Cancel".

The background of the application shows a table with columns "name" and "party", and a code editor on the right side.

At the bottom of the application, there is a footer section with several icons:

- Data (database icon)
- Header (H icon)
- Merge (square icon)
- Theme (mask icon)
- Layout (stacked layers icon)
- Footer (feet icon)

On the left side of the application, there is a sidebar with the following options:

- Add line(s) and/or data.frame to footer
- Nothing  Typology
- Add lines *0 lines added*

The URL in the browser bar is 127.0.0.1:3120/.

# flextableUI

The screenshot shows a web-based application window titled "flextableUI". The main content area displays a table of US Presidents with their names, parties, and terms of office. A footer message "Thank you for your attention!" is present. To the right, a sidebar provides code snippets for generating the table and allows for footer customization.

**Main Content Area:**

| Name    | Party      | Inauguration Date | End Date   |
|---------|------------|-------------------|------------|
| Nixon   | Republican | 1969-01-20        | 1974-08-09 |
| Ford    |            | 1974-08-09        | 1977-01-20 |
| Carter  | Democratic | 1977-01-20        | 1981-01-20 |
| Reagan  | Republican | 1981-01-20        | 1989-01-20 |
| Bush    | Republican | 1989-01-20        | 1993-01-20 |
| Clinton | Democratic | 1993-01-20        | 2001-01-20 |
| Bush    | Republican | 2001-01-20        | 2009-01-20 |
| Obama   | Democratic | 2009-01-20        | 2017-01-20 |

Footer message: Thank you for your attention!

**Code Snippet:**

```
flextable(presidential, col_keys = c("name", "party", "sep",
"start", "end")) %>% add_footer_lines(values = "Thank you for your attention !",
top = TRUE) %>% merge_v(part = "body", j = "party") %>% autofit(add_w = 0.15,
add_h = 0.1) %>% theme_tron_legacy()
```

**Configuration Sidebar:**

Add line(s) and/or data.frame to footer

Nothing  Typology

Add lines 1 lines added

Navigation icons at the bottom:

- Data
- Header
- Merge
- Theme
- Layout
- Footer

