
L^AT_EX table for fdt objects

Examples with xtable and formatting

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L^AT_EX customization

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1 Quick start

This vignette shows a practical workflow to create publication-ready \LaTeX tables from `fdt` and `fdt_cat` objects.

1. Create a frequency distribution object with `fdt()` or `fdt_cat()`.
2. Convert it to an `xtable` object.
3. Use `print()` options to control row names, sanitization and table layout.

1.1 Most used `xtable::print` arguments

| Argument | Purpose |
|-------------------------------------|--|
| <code>include.rownames</code> | Include or hide row names (usually <code>FALSE</code> for cleaner tables). |
| <code>sanitize.text.function</code> | Control escaping/sanitization (useful for math delimiters and custom symbols). |
| <code>table.placement</code> | Preferred placement for floating tables (for example, "H"). |
| <code>tabular.environment</code> | Choose environment ("tabular", "longtable", etc.). |
| <code>floating</code> | Enable/disable floating behavior (commonly <code>FALSE</code> with <code>longtable</code>). |

2 First table

Creating a simple table.

```
library(fdth)
library(xtable)
set.seed(123)

t1 <- fdt(rnorm(n = 1e3,
               mean = 10,
               sd = 2),
         x.round = 3)

t1x <- xtable(t1)
t1x
```

| | Class limits | f | rf | rf(\%) | cf | cf(\%) |
|----|---------------------|-----|------|--------|---------|--------|
| 1 | \$(4.3366,5.4558)\$ | 7 | 0.01 | 0.70 | 7.00 | 0.70 |
| 2 | \$(5.4558,6.5749)\$ | 33 | 0.03 | 3.30 | 40.00 | 4.00 |
| 3 | \$(6.5749,7.694)\$ | 86 | 0.09 | 8.60 | 126.00 | 12.60 |
| 4 | \$(7.694,8.8131)\$ | 137 | 0.14 | 13.70 | 263.00 | 26.30 |
| 5 | \$(8.8131,9.9322)\$ | 220 | 0.22 | 22.00 | 483.00 | 48.30 |
| 6 | \$(9.9322,11.051)\$ | 221 | 0.22 | 22.10 | 704.00 | 70.40 |
| 7 | \$(11.051,12.17)\$ | 163 | 0.16 | 16.30 | 867.00 | 86.70 |
| 8 | \$(12.17,13.29)\$ | 77 | 0.08 | 7.70 | 944.00 | 94.40 |
| 9 | \$(13.29,14.409)\$ | 39 | 0.04 | 3.90 | 983.00 | 98.30 |
| 10 | \$(14.409,15.528)\$ | 16 | 0.02 | 1.60 | 999.00 | 99.90 |
| 11 | \$(15.528,16.647)\$ | 1 | 0.00 | 0.10 | 1000.00 | 100.00 |

2.1 Using `print`

The default output is not ideal. We use the `print` function.

```
print(t1x,
      include.rownames = FALSE,
      sanitize.text.function = function(x) x)
```

| Class limits | f | rf | rf(%) | cf | cf(%) |
|-----------------|-----|------|-------|---------|--------|
| [4.3366,5.4558) | 7 | 0.01 | 0.70 | 7.00 | 0.70 |
| [5.4558,6.5749) | 33 | 0.03 | 3.30 | 40.00 | 4.00 |
| [6.5749,7.694) | 86 | 0.09 | 8.60 | 126.00 | 12.60 |
| [7.694,8.8131) | 137 | 0.14 | 13.70 | 263.00 | 26.30 |
| [8.8131,9.9322) | 220 | 0.22 | 22.00 | 483.00 | 48.30 |
| [9.9322,11.051) | 221 | 0.22 | 22.10 | 704.00 | 70.40 |
| [11.051,12.17) | 163 | 0.16 | 16.30 | 867.00 | 86.70 |
| [12.17,13.29) | 77 | 0.08 | 7.70 | 944.00 | 94.40 |
| [13.29,14.409) | 39 | 0.04 | 3.90 | 983.00 | 98.30 |
| [14.409,15.528) | 16 | 0.02 | 1.60 | 999.00 | 99.90 |
| [15.528,16.647) | 1 | 0.00 | 0.10 | 1000.00 | 100.00 |

This is much better.

3 Delimiters and class limits

3.1 Replacing delimiters with `\dashv`

Replacing class interval delimiters [and) with `\dashv`.

```
newclass <- gsub("$\\\\\\\\[\\\\\\\\)$",
               "",
               t1x[, 1],
               perl = TRUE)

t3x <- t1x
t3x[, 1] <- newclass

print(t3x,
      include.rownames = FALSE,
      sanitize.text.function = function(x) {
        gsub(",", "$\\\\\\\\dashv$", x)
      },
      table.placement = "H")
```

| Class limits | f | rf | rf(%) | cf | cf(%) |
|---------------|-----|------|-------|---------|--------|
| 4.3366+5.4558 | 7 | 0.01 | 0.70 | 7.00 | 0.70 |
| 5.4558+6.5749 | 33 | 0.03 | 3.30 | 40.00 | 4.00 |
| 6.5749+7.694 | 86 | 0.09 | 8.60 | 126.00 | 12.60 |
| 7.694+8.8131 | 137 | 0.14 | 13.70 | 263.00 | 26.30 |
| 8.8131+9.9322 | 220 | 0.22 | 22.00 | 483.00 | 48.30 |
| 9.9322+11.051 | 221 | 0.22 | 22.10 | 704.00 | 70.40 |
| 11.051+12.17 | 163 | 0.16 | 16.30 | 867.00 | 86.70 |
| 12.17+13.29 | 77 | 0.08 | 7.70 | 944.00 | 94.40 |
| 13.29+14.409 | 39 | 0.04 | 3.90 | 983.00 | 98.30 |
| 14.409+15.528 | 16 | 0.02 | 1.60 | 999.00 | 99.90 |
| 15.528+16.647 | 1 | 0.00 | 0.10 | 1000.00 | 100.00 |

3.2 Two decimal places for limits

Standardizing class limits to two decimal places.

```
clim <- t1$table[1]
clim1 <- sapply(clim, as.character)
right <- t1$breaks[4]
pattern <- "%05.2f"

clim2 <- fdth::make.fdt.format.classes(clim1,
                                       right,
                                       pattern)

clim3 <- sapply(clim2,
               function(x) paste0("$", x, "$"))

t4x <- t1x
t4x[, 1] <- clim3

print(t4x,
      include.rownames = FALSE,
      sanitize.text.function = function(x) x)
```

| Class limits | f | rf | rf(%) | cf | cf(%) |
|---------------|-----|------|-------|---------|--------|
| [04.34,05.46) | 7 | 0.01 | 0.70 | 7.00 | 0.70 |
| [05.46,06.57) | 33 | 0.03 | 3.30 | 40.00 | 4.00 |
| [06.57,07.69) | 86 | 0.09 | 8.60 | 126.00 | 12.60 |
| [07.69,08.81) | 137 | 0.14 | 13.70 | 263.00 | 26.30 |
| [08.81,09.93) | 220 | 0.22 | 22.00 | 483.00 | 48.30 |
| [09.93,11.05) | 221 | 0.22 | 22.10 | 704.00 | 70.40 |
| [11.05,12.17) | 163 | 0.16 | 16.30 | 867.00 | 86.70 |
| [12.17,13.29) | 77 | 0.08 | 7.70 | 944.00 | 94.40 |
| [13.29,14.41) | 39 | 0.04 | 3.90 | 983.00 | 98.30 |
| [14.41,15.53) | 16 | 0.02 | 1.60 | 999.00 | 99.90 |
| [15.53,16.65) | 1 | 0.00 | 0.10 | 1000.00 | 100.00 |

4 Objects of class fdt.multiple

```
t5 <- fdt(iris[, c(1:2, 5)],
        by = "Species")
attr(t5, "subheadings") <- paste0("Variable = ", names(t5))
print(xtable(t5),
      table.placement = "H")
```

| | Class limits | f | rf | rf(\%) | cf | cf(\%) |
|------------------------------------|-------------------|----|------|--------|-------|--------|
| Variable = setosa.Sepal.Length | | | | | | |
| 1 | \$(4.257,4.486)\$ | 4 | 0.08 | 8.00 | 4.00 | 8.00 |
| 2 | \$(4.486,4.714)\$ | 7 | 0.14 | 14.00 | 11.00 | 22.00 |
| 3 | \$(4.714,4.943)\$ | 9 | 0.18 | 18.00 | 20.00 | 40.00 |
| 4 | \$(4.943,5.172)\$ | 16 | 0.32 | 32.00 | 36.00 | 72.00 |
| 5 | \$(5.172,5.401)\$ | 9 | 0.18 | 18.00 | 45.00 | 90.00 |
| 6 | \$(5.401,5.629)\$ | 2 | 0.04 | 4.00 | 47.00 | 94.00 |
| 7 | \$(5.629,5.858)\$ | 3 | 0.06 | 6.00 | 50.00 | 100.00 |
| Variable = setosa.Sepal.Width | | | | | | |
| 8 | \$(2.277,2.587)\$ | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| 9 | \$(2.587,2.896)\$ | 0 | 0.00 | 0.00 | 1.00 | 2.00 |
| 10 | \$(2.896,3.206)\$ | 16 | 0.32 | 32.00 | 17.00 | 34.00 |
| 11 | \$(3.206,3.515)\$ | 17 | 0.34 | 34.00 | 34.00 | 68.00 |
| 12 | \$(3.515,3.825)\$ | 10 | 0.20 | 20.00 | 44.00 | 88.00 |
| 13 | \$(3.825,4.134)\$ | 4 | 0.08 | 8.00 | 48.00 | 96.00 |
| 14 | \$(4.134,4.444)\$ | 2 | 0.04 | 4.00 | 50.00 | 100.00 |
| Variable = versicolor.Sepal.Length | | | | | | |
| 15 | \$(4.851,5.168)\$ | 4 | 0.08 | 8.00 | 4.00 | 8.00 |
| 16 | \$(5.168,5.485)\$ | 2 | 0.04 | 4.00 | 6.00 | 12.00 |
| 17 | \$(5.485,5.802)\$ | 18 | 0.36 | 36.00 | 24.00 | 48.00 |
| 18 | \$(5.802,6.119)\$ | 10 | 0.20 | 20.00 | 34.00 | 68.00 |
| 19 | \$(6.119,6.436)\$ | 7 | 0.14 | 14.00 | 41.00 | 82.00 |
| 20 | \$(6.436,6.753)\$ | 6 | 0.12 | 12.00 | 47.00 | 94.00 |
| 21 | \$(6.753,7.07)\$ | 3 | 0.06 | 6.00 | 50.00 | 100.00 |
| Variable = versicolor.Sepal.Width | | | | | | |
| 22 | \$(1.98,2.188)\$ | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| 23 | \$(2.188,2.395)\$ | 5 | 0.10 | 10.00 | 6.00 | 12.00 |
| 24 | \$(2.395,2.603)\$ | 10 | 0.20 | 20.00 | 16.00 | 32.00 |
| 25 | \$(2.603,2.811)\$ | 11 | 0.22 | 22.00 | 27.00 | 54.00 |
| 26 | \$(2.811,3.019)\$ | 15 | 0.30 | 30.00 | 42.00 | 84.00 |
| 27 | \$(3.019,3.226)\$ | 6 | 0.12 | 12.00 | 48.00 | 96.00 |
| 28 | \$(3.226,3.434)\$ | 2 | 0.04 | 4.00 | 50.00 | 100.00 |
| Variable = virginica.Sepal.Length | | | | | | |
| 29 | \$(4.851,5.298)\$ | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| 30 | \$(5.298,5.745)\$ | 2 | 0.04 | 4.00 | 3.00 | 6.00 |
| 31 | \$(5.745,6.192)\$ | 8 | 0.16 | 16.00 | 11.00 | 22.00 |
| 32 | \$(6.192,6.638)\$ | 17 | 0.34 | 34.00 | 28.00 | 56.00 |
| 33 | \$(6.638,7.085)\$ | 10 | 0.20 | 20.00 | 38.00 | 76.00 |
| 34 | \$(7.085,7.532)\$ | 6 | 0.12 | 12.00 | 44.00 | 88.00 |
| 35 | \$(7.532,7.979)\$ | 6 | 0.12 | 12.00 | 50.00 | 100.00 |
| Variable = virginica.Sepal.Width | | | | | | |
| 36 | \$(2.178,2.415)\$ | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| 37 | \$(2.415,2.652)\$ | 6 | 0.12 | 12.00 | 7.00 | 14.00 |
| 38 | \$(2.652,2.889)\$ | 12 | 0.24 | 24.00 | 19.00 | 38.00 |
| 39 | \$(2.889,3.127)\$ | 18 | 0.36 | 36.00 | 37.00 | 74.00 |
| 40 | \$(3.127,3.364)\$ | 8 | 0.16 | 16.00 | 45.00 | 90.00 |
| 41 | \$(3.364,3.601)\$ | 3 | 0.06 | 6.00 | 48.00 | 96.00 |
| 42 | \$(3.601,3.838)\$ | 2 | 0.04 | 4.00 | 50.00 | 100.00 |

This output is not ideal for wide layouts; the `longtable` environment works better.

```
t51 <- xtable(t5)
print(t51,
      table.placement = "H",
      include.rownames = FALSE,
      sanitize.text.function = function(x) x,
      tabular.environment = "longtable",
      floating = FALSE)
```

| Class limits | f | rf | rf(%) | cf | cf(%) |
|------------------------------------|----|------|-------|-------|--------|
| Variable = setosa.Sepal.Length | | | | | |
| [4.257,4.486) | 4 | 0.08 | 8.00 | 4.00 | 8.00 |
| [4.486,4.714) | 7 | 0.14 | 14.00 | 11.00 | 22.00 |
| [4.714,4.943) | 9 | 0.18 | 18.00 | 20.00 | 40.00 |
| [4.943,5.172) | 16 | 0.32 | 32.00 | 36.00 | 72.00 |
| [5.172,5.401) | 9 | 0.18 | 18.00 | 45.00 | 90.00 |
| [5.401,5.629) | 2 | 0.04 | 4.00 | 47.00 | 94.00 |
| [5.629,5.858) | 3 | 0.06 | 6.00 | 50.00 | 100.00 |
| Variable = setosa.Sepal.Width | | | | | |
| [2.277,2.587) | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| [2.587,2.896) | 0 | 0.00 | 0.00 | 1.00 | 2.00 |
| [2.896,3.206) | 16 | 0.32 | 32.00 | 17.00 | 34.00 |
| [3.206,3.515) | 17 | 0.34 | 34.00 | 34.00 | 68.00 |
| [3.515,3.825) | 10 | 0.20 | 20.00 | 44.00 | 88.00 |
| [3.825,4.134) | 4 | 0.08 | 8.00 | 48.00 | 96.00 |
| [4.134,4.444) | 2 | 0.04 | 4.00 | 50.00 | 100.00 |
| Variable = versicolor.Sepal.Length | | | | | |
| [4.851,5.168) | 4 | 0.08 | 8.00 | 4.00 | 8.00 |
| [5.168,5.485) | 2 | 0.04 | 4.00 | 6.00 | 12.00 |
| [5.485,5.802) | 18 | 0.36 | 36.00 | 24.00 | 48.00 |
| [5.802,6.119) | 10 | 0.20 | 20.00 | 34.00 | 68.00 |
| [6.119,6.436) | 7 | 0.14 | 14.00 | 41.00 | 82.00 |
| [6.436,6.753) | 6 | 0.12 | 12.00 | 47.00 | 94.00 |
| [6.753,7.07) | 3 | 0.06 | 6.00 | 50.00 | 100.00 |
| Variable = versicolor.Sepal.Width | | | | | |
| [1.98,2.188) | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| [2.188,2.395) | 5 | 0.10 | 10.00 | 6.00 | 12.00 |
| [2.395,2.603) | 10 | 0.20 | 20.00 | 16.00 | 32.00 |
| [2.603,2.811) | 11 | 0.22 | 22.00 | 27.00 | 54.00 |
| [2.811,3.019) | 15 | 0.30 | 30.00 | 42.00 | 84.00 |
| [3.019,3.226) | 6 | 0.12 | 12.00 | 48.00 | 96.00 |
| [3.226,3.434) | 2 | 0.04 | 4.00 | 50.00 | 100.00 |
| Variable = virginica.Sepal.Length | | | | | |
| [4.851,5.298) | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| [5.298,5.745) | 2 | 0.04 | 4.00 | 3.00 | 6.00 |
| [5.745,6.192) | 8 | 0.16 | 16.00 | 11.00 | 22.00 |
| [6.192,6.638) | 17 | 0.34 | 34.00 | 28.00 | 56.00 |
| [6.638,7.085) | 10 | 0.20 | 20.00 | 38.00 | 76.00 |
| [7.085,7.532) | 6 | 0.12 | 12.00 | 44.00 | 88.00 |
| [7.532,7.979) | 6 | 0.12 | 12.00 | 50.00 | 100.00 |
| Variable = virginica.Sepal.Width | | | | | |

| | | | | | |
|---------------|----|------|-------|-------|--------|
| [2.178,2.415) | 1 | 0.02 | 2.00 | 1.00 | 2.00 |
| [2.415,2.652) | 6 | 0.12 | 12.00 | 7.00 | 14.00 |
| [2.652,2.889) | 12 | 0.24 | 24.00 | 19.00 | 38.00 |
| [2.889,3.127) | 18 | 0.36 | 36.00 | 37.00 | 74.00 |
| [3.127,3.364) | 8 | 0.16 | 16.00 | 45.00 | 90.00 |
| [3.364,3.601) | 3 | 0.06 | 6.00 | 48.00 | 96.00 |
| [3.601,3.838) | 2 | 0.04 | 4.00 | 50.00 | 100.00 |

5 Objects of class fdt_cat

```
set.seed(321)
t6 <- fdt_cat(sample(LETTERS[1:3],
                    replace = TRUE,
                    size = 30))

t6x <- xtable(t6)
print(t6x,
      table.placement = "H",
      include.rownames = FALSE)
```

| Category | f | rf | rf(%) | cf | cf(%) |
|----------|----|------|-------|----|--------|
| B | 12 | 0.40 | 40.00 | 12 | 40.00 |
| C | 10 | 0.33 | 33.33 | 22 | 73.33 |
| A | 8 | 0.27 | 26.67 | 30 | 100.00 |

```
t61 <- fdt_cat(data.frame(c1 = sample(LETTERS[1:3],
                                    replace = TRUE,
                                    size = 10),
                        c2 = sample(letters[4:5],
                                    replace = TRUE,
                                    size = 10),
                        stringsAsFactors = TRUE))

t61x <- xtable(t61)
print(t61x,
      table.placement = "H",
      include.rownames = FALSE)
```

| Category | f | rf | rf(%) | cf | cf(%) |
|----------|---|------|-------|----|--------|
| A | 5 | 0.50 | 50.00 | 5 | 50.00 |
| B | 3 | 0.30 | 30.00 | 8 | 80.00 |
| C | 2 | 0.20 | 20.00 | 10 | 100.00 |
| e | 6 | 0.60 | 60.00 | 6 | 60.00 |
| d | 4 | 0.40 | 40.00 | 10 | 100.00 |

6 Objects of class `fdt_cat.multiple` with subheadings

```
set.seed(654)
t62 <- fdt_cat(data.frame(c1 = sample(LETTERS[1:3],
                                   replace = TRUE,
                                   size = 20),
                        c2 = sample(letters[4:6],
                                   replace = TRUE,
                                   size = 20),
                        stringsAsFactors = TRUE))
attr(t62, "subheadings") <- paste0("Variable = ", names(t62))
print(xtable(t62),
      table.placement = "H")
```

| | Category | f | rf | rf(%) | cf | cf(%) |
|---------------|----------|---|------|-------|----|--------|
| Variable = c1 | | | | | | |
| 1 | A | 8 | 0.40 | 40.00 | 8 | 40.00 |
| 2 | B | 6 | 0.30 | 30.00 | 14 | 70.00 |
| 3 | C | 6 | 0.30 | 30.00 | 20 | 100.00 |
| Variable = c2 | | | | | | |
| 4 | d | 7 | 0.35 | 35.00 | 7 | 35.00 |
| 5 | e | 7 | 0.35 | 35.00 | 14 | 70.00 |
| 6 | f | 6 | 0.30 | 30.00 | 20 | 100.00 |

7 Custom numeric formatting

```
print(xtable(t1,
            auto = FALSE,
            digits = c(0, 0, 0, 3, 2, 0, 2)),
      include.rownames = FALSE,
      sanitize.text.function = function(x) x,
      table.placement = "H")
```

| Class limits | f | rf | rf(%) | cf | cf(%) |
|-----------------|-----|-------|-------|------|--------|
| [4.3366,5.4558) | 7 | 0.007 | 0.70 | 7 | 0.70 |
| [5.4558,6.5749) | 33 | 0.033 | 3.30 | 40 | 4.00 |
| [6.5749,7.694) | 86 | 0.086 | 8.60 | 126 | 12.60 |
| [7.694,8.8131) | 137 | 0.137 | 13.70 | 263 | 26.30 |
| [8.8131,9.9322) | 220 | 0.220 | 22.00 | 483 | 48.30 |
| [9.9322,11.051) | 221 | 0.221 | 22.10 | 704 | 70.40 |
| [11.051,12.17) | 163 | 0.163 | 16.30 | 867 | 86.70 |
| [12.17,13.29) | 77 | 0.077 | 7.70 | 944 | 94.40 |
| [13.29,14.409) | 39 | 0.039 | 3.90 | 983 | 98.30 |
| [14.409,15.528) | 16 | 0.016 | 1.60 | 999 | 99.90 |
| [15.528,16.647) | 1 | 0.001 | 0.10 | 1000 | 100.00 |

8 Table header in Portuguese

```
portugueseT <- c("Intervalo de classes",
                 "f",
```

```

      "fr",
      "fr(%)",
      "fa",
      "fa(%)")

t7 <- t1$table
names(t7) <- portugueseT
t71 <- list(table = t7,
            breaks = t1$breaks)
class(t71) <- "fdt"
t7x <- xtable(t71)

print(t7x,
      table.placement = "H",
      include.rownames = FALSE,
      sanitize.text.function = function(x) x)

```

| Intervalo de classes | f | fr | fr(%) | fa | fa(%) |
|----------------------|-----|------|-------|---------|--------|
| [4.3366,5.4558) | 7 | 0.01 | 0.70 | 7.00 | 0.70 |
| [5.4558,6.5749) | 33 | 0.03 | 3.30 | 40.00 | 4.00 |
| [6.5749,7.694) | 86 | 0.09 | 8.60 | 126.00 | 12.60 |
| [7.694,8.8131) | 137 | 0.14 | 13.70 | 263.00 | 26.30 |
| [8.8131,9.9322) | 220 | 0.22 | 22.00 | 483.00 | 48.30 |
| [9.9322,11.051) | 221 | 0.22 | 22.10 | 704.00 | 70.40 |
| [11.051,12.17) | 163 | 0.16 | 16.30 | 867.00 | 86.70 |
| [12.17,13.29) | 77 | 0.08 | 7.70 | 944.00 | 94.40 |
| [13.29,14.409) | 39 | 0.04 | 3.90 | 983.00 | 98.30 |
| [14.409,15.528) | 16 | 0.02 | 1.60 | 999.00 | 99.90 |
| [15.528,16.647) | 1 | 0.00 | 0.10 | 1000.00 | 100.00 |

9 Takeaways

- For a clean default layout, use `xtable()` followed by `print(..., include.rownames = FALSE)`.
- For custom class labels (delimiters or decimal pattern), combine class-string editing with `sanitize.text.function`.
- For wide or multi-table outputs, prefer `tabular.environment = "longtable"` and `floating = FALSE`.