₽TEX table for fdt objects

Authors: José C. Faria e Ivan B. Allaman

Customization in \LaTeX : José C. Faria

To elaborate a simple table.

	Class limits	f	rf	$\operatorname{rf}(\backslash\%)$	cf	$\operatorname{cf}(\%)$
1	\$[3.8611,4.969)\$	8	0.01	0.80	8.00	0.80
2	\$[4.969,6.0768)\$	20	0.02	2.00	28.00	2.80
3	\$[6.0768,7.1847)\$	44	0.04	4.40	72.00	7.20
4	\$[7.1847,8.2925)\$	137	0.14	13.70	209.00	20.90
5	\$[8.2925,9.4004)\$	186	0.19	18.60	395.00	39.50
6	\$[9.4004,10.508)\$	232	0.23	23.20	627.00	62.70
7	\$[10.508,11.616)\$	174	0.17	17.40	801.00	80.10
8	\$[11.616,12.724)\$	120	0.12	12.00	921.00	92.10
9	\$[12.724,13.832)\$	58	0.06	5.80	979.00	97.90
10	\$[13.832,14.94)\$	15	0.01	1.50	994.00	99.40
_11	\$[14.94,16.047)\$	6	0.01	0.60	1000.00	100.00

The default is not good. Let's use the print function.

```
> print(t1x,
```

- + include.rownames=FALSE,
- + sanitize.text.function = function(x){x})

Class limits	f	rf	$\mathrm{rf}(\%)$	cf	cf(%)
[3.8611, 4.969)	8	0.01	0.80	8.00	0.80
[4.969, 6.0768)	20	0.02	2.00	28.00	2.80
[6.0768, 7.1847)	44	0.04	4.40	72.00	7.20
[7.1847, 8.2925)	137	0.14	13.70	209.00	20.90
[8.2925, 9.4004)	186	0.19	18.60	395.00	39.50
[9.4004, 10.508)	232	0.23	23.20	627.00	62.70
[10.508, 11.616)	174	0.17	17.40	801.00	80.10
[11.616, 12.724)	120	0.12	12.00	921.00	92.10
[12.724, 13.832)	58	0.06	5.80	979.00	97.90
[13.832, 14.94)	15	0.01	1.50	994.00	99.40
[14.94, 16.047)	6	0.01	0.60	1000.00	100.00

It's very good!

```
Substitute [ and ) by \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(%)
3.8611-4.969	8	0.01	0.80	8.00	0.80
$4.969 \dashv 6.0768$	20	0.02	2.00	28.00	2.80
$6.0768 \dashv 7.1847$	44	0.04	4.40	72.00	7.20
$7.1847 \dashv 8.2925$	137	0.14	13.70	209.00	20.90
$8.2925 \dashv 9.4004$	186	0.19	18.60	395.00	39.50
$9.4004 \dashv 10.508$	232	0.23	23.20	627.00	62.70
$10.508 \dashv 11.616$	174	0.17	17.40	801.00	80.10
$11.616 \dashv 12.724$	120	0.12	12.00	921.00	92.10
$12.724 \dashv 13.832$	58	0.06	5.80	979.00	97.90
$13.832 \dashv 14.94$	15	0.01	1.50	994.00	99.40
$14.94 \dashv 16.047$	6	0.01	0.60	1000.00	100.00

Standardizing the class limits to two decimal places.

Class limits	f	rf	$\mathrm{rf}(\%)$	cf	$\operatorname{cf}(\%)$
[03.86, 04.97)	8	0.01	0.80	8.00	0.80
[04.97, 06.08)	20	0.02	2.00	28.00	2.80
[06.08, 07.18]	44	0.04	4.40	72.00	7.20
[07.18, 08.29)	137	0.14	13.70	209.00	20.90
[08.29, 09.40)	186	0.19	18.60	395.00	39.50
[09.40, 10.51)	232	0.23	23.20	627.00	62.70
[10.51, 11.62)	174	0.17	17.40	801.00	80.10
[11.62, 12.72]	120	0.12	12.00	921.00	92.10
[12.72, 13.83)	58	0.06	5.80	979.00	97.90
[13.83, 14.94]	15	0.01	1.50	994.00	99.40
[14.94, 16.05)	6	0.01	0.60	1000.00	100.00

To objects of the "fdt.multiple" class.

	CI II II			6/1 6-/1		6/1 0-1
17.	Class limits	f	rf	$\operatorname{rf}(\backslash\%)$	cf	$\operatorname{cf}(\%)$
	$iable = setosa.Sepal $ $\{4.257, 4.486\}$	Leng. 4	0.08	8.00	4.00	8.00
$\frac{1}{2}$	\$[4.486,4.714)\$	7	0.08 0.14	14.00	$\frac{4.00}{11.00}$	22.00
3	\$[4.714,4.943)\$	9	0.14 0.18	14.00 18.00	20.00	40.00
3 4	\$[4.943,5.172)\$	9 16	0.18 0.32	32.00	36.00	72.00
5	. ,	9	0.32 0.18	18.00	45.00	90.00
6	\$[5.172,5.401)\$ \$[5.401,5.629)\$	2				
0 7		$\frac{2}{3}$	0.04	4.00	47.00	94.00
	\$[5.629,5.858)\$		0.06	6.00	50.00	100.00
	iable = setosa.Sepal			0.00	1.00	0.00
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
	iable = setosa.Petal	~	-			
15	\$[0.99,1.123)\$	2	0.04	4.00	2.00	4.00
16	\$[1.123,1.255)\$	2	0.04	4.00	4.00	8.00
17	\$[1.255,1.388)\$	7	0.14	14.00	11.00	22.00
18	[1.388, 1.521]	26	0.52	52.00	37.00	74.00
19	[1.521, 1.654]	7	0.14	14.00	44.00	88.00
20	\$[1.654,1.786)\$	4	0.08	8.00	48.00	96.00
21	\$[1.786,1.919)\$	2	0.04	4.00	50.00	100.00
Var	iable = setosa.Petal	.Wid	th			
22	\$[0.099,0.1714)\$	5	0.10	10.00	5.00	10.00
23	\$[0.1714,0.2439)\$	29	0.58	58.00	34.00	68.00
24	\$[0.2439,0.3163)\$	7	0.14	14.00	41.00	82.00
25	\$[0.3163,0.3887)\$	0	0.00	0.00	41.00	82.00
26	\$[0.3887,0.4611)\$	7	0.14	14.00	48.00	96.00
27	\$[0.4611,0.5336)\$	1	0.02	2.00	49.00	98.00
28	\$[0.5336,0.606)\$	1	0.02	2.00	50.00	100.00
	iable = versicolor.Se		ength			
29	\$[4.851,5.168)\$	4	0.08	8.00	4.00	8.00
30	\$[5.168,5.485)\$	2	0.04	4.00	6.00	12.00
31	\$[5.485,5.802)\$	18	0.36	36.00	24.00	48.00
32	\$[5.802,6.119)\$	10	0.20	20.00	34.00	68.00
33	\$[6.119,6.436)\$	7	0.14	14.00	41.00	82.00
34	\$[6.436,6.753)\$	6	0.12	12.00	47.00	94.00
35	\$[6.753,7.07)\$	3	0.06	6.00	50.00	100.00
	$\frac{\psi[0.195,1.01)\psi}{\text{iable} = \text{versicolor.Se}}$			0.00	00.00	100.00
36	\$[1.98,2.188)\$	эраг. v 1	0.02	2.00	1.00	2.00
37	\$[2.188,2.395)\$	5	0.02 0.10	10.00	6.00	12.00
38	\$[2.395,2.603)\$	10	0.10 0.20	20.00	16.00	$\frac{12.00}{32.00}$
39	\$[2.603,2.811)\$	10	0.20 0.22	20.00 22.00	27.00	52.00 54.00
39 40	\$[2.811,3.019)\$		0.22 0.30	$\frac{22.00}{30.00}$	42.00	54.00 84.00
	. ,	15 6				
41	\$[3.019,3.226)\$ \$[2.226,2.424)\$	6	0.12	12.00	48.00	96.00
42	\$[3.226,3.434)\$	2	0.04	4.00	50.00	100.00
		ata II	ength			
	iable = versicolor.Po		_	0.00	1 00	0.00
43	[2.97, 3.282)	1	0.02	2.00	1.00	
43 44	\$[2.97,3.282)\$ \$[3.282,3.593)\$	$\frac{1}{4}$	$0.02 \\ 0.08$	8.00	5.00	10.00
43 44 45	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$	1 4 6	0.02 0.08 0.12	$8.00 \\ 12.00$	5.00 11.00	10.00 22.00
43 44 45 46	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$	1 4 6 12	0.02 0.08 0.12 0.24	8.00 12.00 24.00	5.00 11.00 23.00	10.00 22.00 46.00
43 44 45 46 47	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$	1 4 6 12 13	0.02 0.08 0.12 0.24 0.26	8.00 12.00 24.00 26.00	5.00 11.00 23.00 36.00	10.00 22.00 46.00 72.00
43 44 45 46 47 48	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$	1 4 6 12 13 10	0.02 0.08 0.12 0.24 0.26 0.20	8.00 12.00 24.00 26.00 20.00	5.00 11.00 23.00 36.00 46.00	10.00 22.00 46.00 72.00 92.00
43 44 45 46 47 48 49	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$ \$[4.839,5.151)\$	1 4 6 12 13 10 4	0.02 0.08 0.12 0.24 0.26 0.20 0.08	8.00 12.00 24.00 26.00	5.00 11.00 23.00 36.00	10.00 22.00 46.00 72.00 92.00
43 44 45 46 47 48 49 Vari	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$ \$[4.839,5.151)\$ iable = versicolor.Pe	1 4 6 12 13 10 4 etal.V	0.02 0.08 0.12 0.24 0.26 0.20 0.08	8.00 12.00 24.00 26.00 20.00 8.00	5.00 11.00 23.00 36.00 46.00 50.00	10.00 22.00 46.00 72.00 92.00 100.00
43 44 45 46 47 48 49	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$ \$[4.839,5.151)\$	1 4 6 12 13 10 4	0.02 0.08 0.12 0.24 0.26 0.20 0.08	8.00 12.00 24.00 26.00 20.00	5.00 11.00 23.00 36.00 46.00	10.00 22.00 46.00 72.00 92.00 100.00
43 44 45 46 47 48 49 Vari	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$ \$[4.839,5.151)\$ iable = versicolor.Pe	1 4 6 12 13 10 4 etal.V	0.02 0.08 0.12 0.24 0.26 0.20 0.08	8.00 12.00 24.00 26.00 20.00 8.00	5.00 11.00 23.00 36.00 46.00 50.00	10.00 22.00 46.00 72.00 92.00 100.00
43 44 45 46 47 48 49 Vari	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$ \$[4.839,5.151)\$ iable = versicolor.Po	1 4 6 12 13 10 4 etal.V	0.02 0.08 0.12 0.24 0.26 0.20 0.08 Vidth 0.20	8.00 12.00 24.00 26.00 20.00 8.00	5.00 11.00 23.00 36.00 46.00 50.00	10.00 22.00 46.00 72.00 92.00 100.00 20.00 30.00
43 44 45 46 47 48 49 Vari 50 51	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$ \$[4.839,5.151)\$ iable = versicolor.Period	$ \begin{array}{c} 1\\4\\6\\12\\13\\10\\4\\\hline{etal.V}\\10\\5 \end{array} $	0.02 0.08 0.12 0.24 0.26 0.20 0.08 Vidth 0.20 0.10	8.00 12.00 24.00 26.00 20.00 8.00 20.00 10.00	5.00 11.00 23.00 36.00 46.00 50.00 10.00 15.00	10.00 22.00 46.00 72.00 92.00 100.00 20.00 30.00 56.00
43 44 45 46 47 48 49 Vari 50 51 52	\$[2.97,3.282)\$ \$[3.282,3.593)\$ \$[3.593,3.905)\$ \$[3.905,4.216)\$ \$[4.216,4.528)\$ \$[4.528,4.839)\$ \$[4.839,5.151)\$ iable = versicolor.Personal Service of the Control of the Co	1 4 6 12 13 10 4 etal.V 10 5 13	0.02 0.08 0.12 0.24 0.26 0.20 0.08 Vidth 0.20 0.10 \$9.26	8.00 12.00 24.00 26.00 20.00 8.00 20.00 10.00 26.00	5.00 11.00 23.00 36.00 46.00 50.00 10.00 15.00 28.00	2.00 10.00 22.00 46.00 72.00 92.00 100.00 20.00 30.00 56.00 70.00 90.00

Is not good! It's necessary to use the longtable begin.

- > t51 <- xtable(t5)
- > print(t51,
- table.placement='H',
- + include.rownames=FALSE,
- + sanitize.text.function = function(x){x},
- + tabular.environment='longtable')

Class limits	f	$_{ m rf}$	rf(%)	cf	cf(%)
Variable = setos	a.Sep	al.Leng	gth		
[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 = setos	a.Sep				
[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
$\frac{\text{Variable} = \text{setos}}{\text{Variable}}$				30.00	100.00
[0.99, 1.123)	2	0.04	4.00	2.00	4.00
[1.123, 1.255)	2	0.04	4.00	4.00	8.00
[1.255, 1.388)	7	0.14	14.00	11.00	22.00
[1.388, 1.521)	26	0.52	52.00	37.00	74.00
[1.521, 1.654]	7	0.14	14.00	44.00	88.00
[1.654, 1.786]	4	0.08	8.00	48.00	96.00
[1.786, 1.919]	2	0.04	4.00	50.00	100.00
$\frac{\text{Variable} = \text{setos}}{\text{Variable}}$				30.00	100.00
[0.099, 0.1714]	5	0.10	10.00	5.00	10.00
[0.1714, 0.2439)	29	0.58	58.00	34.00	68.00
[0.2439, 0.3163)	7	0.14	14.00	41.00	82.00
[0.3163, 0.3887)	0	0.00	0.00	41.00	82.00
[0.3887, 0.4611)	7	0.14	14.00	48.00	96.00
[0.4611, 0.5336)	1	0.02	2.00	49.00	98.00
[0.5336, 0.606)	1	0.02	2.00	50.00	100.00
$\frac{\text{Variable} = \text{version}}{\text{Variable}}$				00.00	100.00
[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	0.20	14.00	41.00	82.00
[6.436, 6.753)	6	0.14	12.00	47.00	94.00
[6.753, 7.07)	3	0.06	6.00	50.00	100.00
Variable = version				30.00	100.00
[1.98, 2.188)	1	0.02	2.00	1.00	2.00
[2.188, 2.395]	5	0.02	10.00	6.00	12.00
[2.395, 2.603)	10	0.10	20.00	16.00	32.00
[2.603, 2.811)	11	0.20	22.00	27.00	54.00
[2.811, 3.019)	15	0.22	30.00	42.00	84.00
[3.019, 3.226)	6	0.30	12.00	48.00	96.00
[3.226, 3.434)	2	0.12 0.04	4.00	50.00	100.00
Variable = version Variable				55.00	100.00

Variable = versicolor.Petal.Length

[2.97, 3.282)	1	0.02	2.00	1.00	2.00
[3.282, 3.593)	4	0.08	8.00	5.00	10.00
[3.593, 3.905)	6	0.12	12.00	11.00	22.00
[3.905, 4.216)	12	0.24	24.00	23.00	46.00
[4.216, 4.528]	13	0.26	26.00	36.00	72.00
[4.528, 4.839)	10	0.20	20.00	46.00	92.00
[4.839, 5.151]	4	0.08	8.00	50.00	100.00
Variable = versi	color.	Petal.V	Vidth		
[0.99, 1.108)	10	0.20	20.00	10.00	20.00
[1.108, 1.227]	5	0.10	10.00	15.00	30.00
[1.227, 1.345)	13	0.26	26.00	28.00	56.00
[1.345, 1.463)	7	0.14	14.00	35.00	70.00
[1.463, 1.581)	10	0.20	20.00	45.00	90.00
[1.581, 1.7)	3	0.06	6.00	48.00	96.00
[1.7, 1.818)	2	0.04	4.00	50.00	100.00
Variable = virgi					
[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	0.34	20.00	38.00	76.00
[7.085, 7.532]	6	0.20	12.00	44.00	88.00
[7.532, 7.979]	6	0.12	12.00 12.00	50.00	100.00
$\frac{Variable = virgi}{Variable}$				50.00	100.00
[2.178, 2.415]	1110a. 1	0.02	2.00	1.00	2.00
[2.170, 2.413]	1	0.02			
(2 415 2 652)	6	0.12	12.00	7 ()()	14 000
[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
[2.652, 2.889) [2.889, 3.127)	12 18	$0.24 \\ 0.36$	$24.00 \\ 36.00$	19.00 37.00	$38.00 \\ 74.00$
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364)	12 18 8	$0.24 \\ 0.36 \\ 0.16$	24.00 36.00 16.00	19.00 37.00 45.00	38.00 74.00 90.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601)	12 18 8 3	0.24 0.36 0.16 0.06	24.00 36.00 16.00 6.00	19.00 37.00 45.00 48.00	38.00 74.00 90.00 96.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838)	12 18 8 3 2	0.24 0.36 0.16 0.06 0.04	24.00 36.00 16.00 6.00 4.00	19.00 37.00 45.00	38.00 74.00 90.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi	12 18 8 3 2 nica.I	0.24 0.36 0.16 0.06 0.04 Petal.Le	24.00 36.00 16.00 6.00 4.00 ength	19.00 37.00 45.00 48.00 50.00	38.00 74.00 90.00 96.00 100.00
[2.652,2.889) [2.889,3.127) [3.127,3.364) [3.364,3.601) [3.601,3.838) Variable = virgi [4.455,4.814)	12 18 8 3 2 nica.I	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06	24.00 36.00 16.00 6.00 4.00 ength 6.00	19.00 37.00 45.00 48.00 50.00	38.00 74.00 90.00 96.00 100.00
[2.652,2.889) [2.889,3.127) [3.127,3.364) [3.364,3.601) [3.601,3.838) Variable = virgi [4.455,4.814) [4.814,5.173)	12 18 8 3 2 nica.I 3 13	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06 0.26	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532)	12 18 8 3 2 nica.I 3 13 9	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06 0.26 0.18	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892)	12 18 8 3 2 nica.I 3 13 9 12	0.24 0.36 0.16 0.06 0.04 Petal.Lo 0.06 0.26 0.18 0.24	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00 24.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251)	12 18 8 3 2 nica.H 3 13 9 12 7	0.24 0.36 0.16 0.06 0.04 Petal.Ld 0.06 0.26 0.18 0.24 0.14	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00 24.00 14.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251) [6.251, 6.61)	12 18 8 3 2 nica.I 3 13 9 12 7 3	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06 0.26 0.18 0.24 0.14 0.06	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00 24.00 14.00 6.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00
[2.652,2.889) [2.889,3.127) [3.127,3.364) [3.364,3.601) [3.601,3.838) Variable = virgi [4.455,4.814) [4.814,5.173) [5.173,5.532) [5.532,5.892) [5.892,6.251) [6.251,6.61) [6.61,6.969)	12 18 8 3 2 nica.I 3 13 9 12 7 3 3	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06 0.26 0.18 0.24 0.14 0.06 0.06	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00 24.00 14.00 6.00 6.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00
[2.652,2.889) [2.889,3.127) [3.127,3.364) [3.364,3.601) [3.601,3.838) Variable = virgi [4.455,4.814) [4.814,5.173) [5.173,5.532) [5.532,5.892) [5.892,6.251) [6.251,6.61) [6.61,6.969) Variable = virgi	12 18 8 3 2 nica.I 3 13 9 12 7 3 nica.I	0.24 0.36 0.16 0.06 0.04 Petal.Lo 0.06 0.26 0.18 0.24 0.14 0.06 0.06	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00 24.00 14.00 6.00 6.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00
[2.652,2.889) [2.889,3.127) [3.127,3.364) [3.364,3.601) [3.601,3.838) Variable = virgi [4.455,4.814) [4.814,5.173) [5.173,5.532) [5.532,5.892) [5.892,6.251) [6.251,6.61) [6.61,6.969) Variable = virgi [1.386,1.549)	12 18 8 3 2 nica.H 3 13 9 12 7 3 mica.H 3	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06 0.26 0.18 0.24 0.14 0.06 0.06 0.06 0.06	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00 24.00 14.00 6.00 6.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251) [6.251, 6.61) [6.61, 6.969) Variable = virgi [1.386, 1.549) [1.549, 1.711)	12 18 8 3 2 nica.H 3 13 9 12 7 3 3 nica.H 3 2	0.24 0.36 0.16 0.06 0.04 Petal.Ld 0.06 0.26 0.18 0.24 0.14 0.06 0.06 0.06 0.06 0.06 0.09 0.	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 18.00 24.00 14.00 6.00 6.00 7idth 6.00 4.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00 3.00 50.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251) [6.251, 6.61) [6.61, 6.969) Variable = virgi [1.386, 1.549) [1.549, 1.711) [1.711, 1.874)	12 18 8 3 2 nica.H 3 13 9 12 7 3 3 nica.H 3 2	0.24 0.36 0.16 0.06 0.04 Petal.Ld 0.06 0.26 0.18 0.24 0.14 0.06 0.06 0.06 0.06 0.06 0.24 0.06 0.06 0.06 0.24 0.06 0.24 0.06 0.06 0.24 0.06 0.	24.00 36.00 16.00 6.00 4.00 ength 6.00 24.00 14.00 6.00 6.00 7idth 6.00 4.00 22.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00 3.00 5.00 16.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00 6.00 10.00 32.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251) [6.251, 6.61) [6.61, 6.969) Variable = virgi [1.386, 1.549) [1.549, 1.711) [1.711, 1.874) [1.874, 2.037)	12 18 8 3 2 nica.H 3 13 9 12 7 3 3 nica.H 3 11 11	0.24 0.36 0.16 0.06 0.04 Petal.Ld 0.06 0.26 0.18 0.24 0.14 0.06 0.06 0.06 0.06 0.24 0.14 0.06 0.06 0.06 0.24	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 14.00 6.00 6.00 7idth 6.00 4.00 22.00 22.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00 3.00 16.00 27.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00 6.00 10.00 32.00 54.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251) [6.251, 6.61) [6.61, 6.969) Variable = virgi [1.386, 1.549) [1.549, 1.711) [1.711, 1.874) [1.874, 2.037) [2.037, 2.2)	12 18 8 3 2 nica.H 3 13 9 12 7 3 3 nica.H 3 2 11 11 6	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06 0.26 0.18 0.24 0.14 0.06 0.06 0.06 0.24 0.14 0.06 0.26 0.18	24.00 36.00 16.00 6.00 4.00 ength 6.00 24.00 14.00 6.00 6.00 7idth 6.00 4.00 22.00 22.00 12.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00 3.00 5.00 16.00 27.00 33.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00 6.00 32.00 54.00 66.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251) [6.251, 6.61) [6.61, 6.969) Variable = virgi [1.386, 1.549) [1.549, 1.711) [1.711, 1.874) [1.874, 2.037)	12 18 8 3 2 nica.H 3 13 9 12 7 3 3 nica.H 3 11 11	0.24 0.36 0.16 0.06 0.04 Petal.Ld 0.06 0.26 0.18 0.24 0.14 0.06 0.06 0.06 0.06 0.24 0.14 0.06 0.06 0.06 0.24	24.00 36.00 16.00 6.00 4.00 ength 6.00 26.00 14.00 6.00 6.00 7idth 6.00 4.00 22.00 22.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00 3.00 16.00 27.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00 6.00 10.00 32.00 54.00
[2.652, 2.889) [2.889, 3.127) [3.127, 3.364) [3.364, 3.601) [3.601, 3.838) Variable = virgi [4.455, 4.814) [4.814, 5.173) [5.173, 5.532) [5.532, 5.892) [5.892, 6.251) [6.251, 6.61) [6.61, 6.969) Variable = virgi [1.386, 1.549) [1.549, 1.711) [1.711, 1.874) [1.874, 2.037) [2.037, 2.2)	12 18 8 3 2 nica.H 3 13 9 12 7 3 3 nica.H 3 2 11 11 6	0.24 0.36 0.16 0.06 0.04 Petal.Le 0.06 0.26 0.18 0.24 0.14 0.06 0.06 0.06 0.24 0.14 0.06 0.26 0.18	24.00 36.00 16.00 6.00 4.00 ength 6.00 24.00 14.00 6.00 6.00 7idth 6.00 4.00 22.00 22.00 12.00	19.00 37.00 45.00 48.00 50.00 3.00 16.00 25.00 37.00 44.00 47.00 50.00 3.00 5.00 16.00 27.00 33.00	38.00 74.00 90.00 96.00 100.00 6.00 32.00 50.00 74.00 88.00 94.00 100.00 6.00 32.00 54.00 66.00

To objects of the "fdt_cat" class.

Category	f	rf	$\mathrm{rf}(\%)$	cf	cf(%)
С	13	0.43	43.33	13	43.33
В	9	0.30	30.00	22	73.33
A	8	0.27	26.67	30	100.00

Category	\mathbf{f}	rf	$\mathrm{rf}(\%)$	cf	$\mathrm{cf}(\%)$
В	4	0.40	40.00	4	40.00
A	3	0.30	30.00	7	70.00
\mathbf{C}	3	0.30	30.00	10	100.00
e	6	0.60	60.00	6	60.00
d	4	0.40	40.00	10	100.00

>

Title of the table 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})
```

			0 (04)		2 (04)
Intervalo de classes	f	fr	$\operatorname{fr}(\%)$	fa	$\mathrm{fa}(\%)$
[3.8611, 4.969)	8	0.01	0.80	8.00	0.80
[4.969, 6.0768)	20	0.02	2.00	28.00	2.80
[6.0768, 7.1847)	44	0.04	4.40	72.00	7.20
[7.1847, 8.2925)	137	0.14	13.70	209.00	20.90
[8.2925, 9.4004)	186	0.19	18.60	395.00	39.50
[9.4004, 10.508)	232	0.23	23.20	627.00	62.70
[10.508, 11.616]	174	0.17	17.40	801.00	80.10
[11.616, 12.724)	120	0.12	12.00	921.00	92.10
[12.724, 13.832)	58	0.06	5.80	979.00	97.90
[13.832, 14.94)	15	0.01	1.50	994.00	99.40
[14.94, 16.047)	6	0.01	0.60	1000.00	100.00