

The xtable gallery

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1 Summary

This document gives a gallery of tables which can be made by using the `xtable` package to create \LaTeX output. It doubles as a regression check for the package.

```
> library(xtable)
```

2 Gallery

2.1 Data frame

Load example dataset

```
> data(tli)
> tli.table <- xtable(tli[1:10, ])
> digits(tli.table)[c(2, 6)] <- 0

> print(tli.table, floating = FALSE)
```

	grade	sex	disadv	ethnicity	timth
1	6	M	YES	HISPANIC	43
2	7	M	NO	BLACK	88
3	5	F	YES	HISPANIC	34
4	3	M	YES	HISPANIC	65
5	8	M	YES	WHITE	75
6	5	M	NO	BLACK	74
7	8	F	YES	HISPANIC	72
8	4	M	YES	BLACK	79
9	6	M	NO	WHITE	88
10	7	M	YES	HISPANIC	87

2.2 Matrix

```
> design.matrix <- model.matrix(~sex * grade, data = tli[1:10,
+ ])
> design.table <- xtable(design.matrix)

> print(design.table, floating = FALSE)
```

	(Intercept)	sexM	grade	sexM:grade
1	1.00	1.00	6.00	6.00
2	1.00	1.00	7.00	7.00
3	1.00	0.00	5.00	0.00
4	1.00	1.00	3.00	3.00
5	1.00	1.00	8.00	8.00
6	1.00	1.00	5.00	5.00
7	1.00	0.00	8.00	0.00
8	1.00	1.00	4.00	4.00
9	1.00	1.00	6.00	6.00
10	1.00	1.00	7.00	7.00

2.3 aov

```
> fm1 <- aov(tlimth ~ sex + ethnicity + grade + disadv, data = tli)
> fm1.table <- xtable(fm1)

> print(fm1.table, floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
sex	1	75.37	75.37	0.38	0.5417
ethnicity	3	2572.15	857.38	4.27	0.0072
grade	1	36.31	36.31	0.18	0.6717
disadv	1	59.30	59.30	0.30	0.5882
Residuals	93	18682.87	200.89		

2.4 lm

```
> fm2 <- lm(tlimth ~ sex * ethnicity, data = tli)
> fm2.table <- xtable(fm2)

> print(fm2.table, floating = FALSE)
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	73.6364	4.2502	17.33	0.0000
sexM	-1.6364	5.8842	-0.28	0.7816
ethnicityHISPANIC	-9.7614	6.5501	-1.49	0.1395
ethnicityOTHER	15.8636	10.8360	1.46	0.1466
ethnicityWHITE	4.7970	4.9687	0.97	0.3368
sexM:ethnicityHISPANIC	10.6780	8.7190	1.22	0.2238
sexM:ethnicityWHITE	5.1230	7.0140	0.73	0.4670

2.4.1 anova object

```
> print(xtable(anova(fm2)), floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
sex	1	75.37	75.37	0.38	0.5395
ethnicity	3	2572.15	857.38	4.31	0.0068
sex:ethnicity	2	298.43	149.22	0.75	0.4748
Residuals	93	18480.04	198.71		

2.4.2 Another anova object

```
> fm2b <- lm(tlimth ~ ethnicity, data = tli)

> print(xtable(anova(fm2b, fm2)), floating = FALSE)
```

	Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)
1	96	19053.59				
2	93	18480.04	3	573.55	0.96	0.4141

2.5 glm

```
> fm3 <- glm(disadv ~ ethnicity * grade, data = tli, family = binomial())
> fm3.table <- xtable(fm3)

> print(fm3.table, floating = FALSE)
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	3.1888	1.5966	2.00	0.0458
ethnicityHISPANIC	-0.2848	2.4808	-0.11	0.9086
ethnicityOTHER	212.1701	22122.7093	0.01	0.9923
ethnicityWHITE	-8.8150	3.3355	-2.64	0.0082
grade	-0.5308	0.2892	-1.84	0.0665
ethnicityHISPANIC:grade	0.2448	0.4357	0.56	0.5742
ethnicityOTHER:grade	-32.6014	3393.4687	-0.01	0.9923
ethnicityWHITE:grade	1.0171	0.5185	1.96	0.0498

2.5.1 anova object

```
> print(xtable(anova(fm3)), floating = FALSE)
```

	Df	Deviance	Resid. Df	Resid. Dev
NULL			99	129.49
ethnicity	3	47.24	96	82.25
grade	1	1.73	95	80.52
ethnicity:grade	3	7.20	92	73.32

2.6 More aov

```
> N <- c(0, 1, 0, 1, 1, 1, 0, 0, 0, 1, 1, 0, 1, 1, 0, 0, 1, 0,
+       1, 0, 1, 1, 0, 0)
> P <- c(1, 1, 0, 0, 0, 1, 0, 1, 1, 1, 0, 0, 0, 1, 0, 1, 1, 0,
+       0, 1, 0, 1, 1, 0)
> K <- c(1, 0, 0, 1, 0, 1, 1, 0, 0, 1, 0, 1, 0, 1, 1, 0, 0, 0,
+       1, 1, 1, 0, 1, 0)
> yield <- c(49.5, 62.8, 46.8, 57, 59.8, 58.5, 55.5, 56, 62.8,
+            55.8, 69.5, 55, 62, 48.8, 45.5, 44.2, 52, 51.5, 49.8, 48.8,
+            57.2, 59, 53.2, 56)
> npk <- data.frame(block = gl(6, 4), N = factor(N), P = factor(P),
+                   K = factor(K), yield = yield)
> npk.aov <- aov(yield ~ block + N * P * K, npk)
> op <- options(contrasts = c("contr.helmert", "contr.treatment"))
```

```
> npk.aovE <- aov(yield ~ N * P * K + Error(block), npk)
> options(op)

> print(xtable(npk.aov), floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
block	5	343.29	68.66	4.45	0.0159
N	1	189.28	189.28	12.26	0.0044
P	1	8.40	8.40	0.54	0.4749
K	1	95.20	95.20	6.17	0.0288
N:P	1	21.28	21.28	1.38	0.2632
N:K	1	33.13	33.13	2.15	0.1686
P:K	1	0.48	0.48	0.03	0.8628
Residuals	12	185.29	15.44		

2.6.1 anova object

```
> print(xtable(anova(npk.aov)), floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
block	5	343.29	68.66	4.45	0.0159
N	1	189.28	189.28	12.26	0.0044
P	1	8.40	8.40	0.54	0.4749
K	1	95.20	95.20	6.17	0.0288
N:P	1	21.28	21.28	1.38	0.2632
N:K	1	33.13	33.13	2.15	0.1686
P:K	1	0.48	0.48	0.03	0.8628
Residuals	12	185.29	15.44		

2.6.2 Another anova object

```
> print(xtable(summary(npk.aov)), floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
block	5	343.29	68.66	4.45	0.0159
N	1	189.28	189.28	12.26	0.0044
P	1	8.40	8.40	0.54	0.4749
K	1	95.20	95.20	6.17	0.0288
N:P	1	21.28	21.28	1.38	0.2632
N:K	1	33.13	33.13	2.15	0.1686
P:K	1	0.48	0.48	0.03	0.8628
Residuals	12	185.29	15.44		

```
> print(xtable(npk.aovE), floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
N:P:K	1	37.00	37.00	0.48	0.5252
Residuals	4	306.29	76.57		
N	1	189.28	189.28	12.26	0.0044
P	1	8.40	8.40	0.54	0.4749
K	1	95.20	95.20	6.17	0.0288
N:P	1	21.28	21.28	1.38	0.2632
N:K	1	33.14	33.14	2.15	0.1686
P:K	1	0.48	0.48	0.03	0.8628
Residuals1	12	185.29	15.44		

```
> print(xtable(summary(npk.aovE)), floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
N:P:K	1	37.00	37.00	0.48	0.5252
Residuals	4	306.29	76.57		
N	1	189.28	189.28	12.26	0.0044
P	1	8.40	8.40	0.54	0.4749
K	1	95.20	95.20	6.17	0.0288
N:P	1	21.28	21.28	1.38	0.2632
N:K	1	33.14	33.14	2.15	0.1686
P:K	1	0.48	0.48	0.03	0.8628
Residuals1	12	185.29	15.44		

2.7 More lm

```
> ctl <- c(4.17, 5.58, 5.18, 6.11, 4.5, 4.61, 5.17, 4.53, 5.33,
+         5.14)
> trt <- c(4.81, 4.17, 4.41, 3.59, 5.87, 3.83, 6.03, 4.89, 4.32,
+         4.69)
> group <- gl(2, 10, 20, labels = c("Ctl", "Trt"))
> weight <- c(ctl, trt)
> lm.D9 <- lm(weight ~ group)
> print(xtable(lm.D9), floating = FALSE)
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	5.0320	0.2202	22.85	0.0000
groupTrt	-0.3710	0.3114	-1.19	0.2490

```
> print(xtable(anova(lm.D9)), floating = FALSE)
```

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
group	1	0.69	0.69	1.42	0.2490
Residuals	18	8.73	0.48		

2.8 More glm

```
> counts <- c(18, 17, 15, 20, 10, 20, 25, 13, 12)
> outcome <- gl(3, 1, 9)
> treatment <- gl(3, 3)
> d.AD <- data.frame(treatment, outcome, counts)
> glm.D93 <- glm(counts ~ outcome + treatment, family = poisson())
```

```
> print(xtable(glm.D93, align = "r|llrc"), floating = FALSE)
```

	Estimate	Std. Error	z value	Pr(> z)
(Intercept)	3.0445	0.1709	17.81	0.0000
outcome2	-0.4543	0.2022	-2.25	0.0246
outcome3	-0.2930	0.1927	-1.52	0.1285
treatment2	0.0000	0.2000	0.00	1.0000
treatment3	0.0000	0.2000	0.00	1.0000

2.9 prcomp

```
> if (require(stats, quietly = TRUE)) {
+   data(USArrests)
+   pr1 <- prcomp(USArrests)
+ }

> if (require(stats, quietly = TRUE)) {
+   print(xtable(pr1), floating = FALSE)
+ }
```

	PC1	PC2	PC3	PC4
Murder	0.0417	-0.0448	0.0799	-0.9949
Assault	0.9952	-0.0588	-0.0676	0.0389
UrbanPop	0.0463	0.9769	-0.2005	-0.0582
Rape	0.0752	0.2007	0.9741	0.0723

```
> print(xtable(summary(pr1)), floating = FALSE)
```

	PC1	PC2	PC3	PC4
Standard deviation	83.7324	14.2124	6.4894	2.4828
Proportion of Variance	0.9655	0.0278	0.0058	0.0008
Cumulative Proportion	0.9655	0.9933	0.9991	1.0000

2.10 Time series

```
> temp.ts <- ts(cumsum(1 + round(rnorm(100), 0)), start = c(1954,
+   7), frequency = 12)
> temp.table <- xtable(temp.ts, digits = 0)
> caption(temp.table) <- "Time series example"

> print(temp.table, floating = FALSE)
```

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1954							2	3	5	5	7	9
1955	10	10	12	14	15	15	19	21	22	23	24	26
1956	27	27	28	28	28	29	30	29	30	31	32	34
1957	34	34	36	35	35	35	38	38	38	39	40	40
1958	40	42	44	45	46	46	48	49	49	52	53	56
1959	58	57	56	56	57	58	59	60	63	64	65	67
1960	69	69	70	71	73	73	74	74	75	75	74	77
1961	79	79	81	81	84	86	88	88	90	89	89	89
1962	91	91	92	92	92	93	94	96	98	99		

3 Sanitization

```
> insane <- data.frame(Name = c("Ampersand", "Greater than", "Less than",
+   "Underscore", "Per cent", "Dollar", "Backslash", "Hash",
+   "Caret", "Tilde", "Left brace", "Right brace"), Character = I(c("&",
+   ">", "<", "_", "%", "$", "\\\"", "#", "^", "~", "{", "}")))
> colnames(insane)[2] <- paste(insane[, 2], collapse = "")
> print(xtable(insane))
```

	Name	<code>&><_%\$\\#^~{ }</code>
1	Ampersand	<code>&</code>
2	Greater than	<code>></code>
3	Less than	<code><</code>
4	Underscore	<code>_</code>
5	Per cent	<code>%</code>
6	Dollar	<code>\$</code>
7	Backslash	<code>\\</code>
8	Hash	<code>#</code>
9	Caret	<code>^</code>
10	Tilde	<code>~</code>
11	Left brace	<code>{</code>
12	Right brace	<code>}</code>

Sometimes you might want to have your own sanitization function

```
> wanttex <- xtable(data.frame(label = paste("Value_is $10^{-",
+   1:3, "}$", sep = "")))
> print(wanttex, sanitize.text.function = function(str) gsub("-",
+   "\\_", str, fixed = TRUE))
```

	label
1	Value_is 10^{-1}
2	Value_is 10^{-2}
3	Value_is 10^{-3}

3.1 Markup in tables

Markup can be kept in tables, including column and row names by using a customized `sanitize.text.function`:

```
> mat <- round(matrix(c(0.9, 0.89, 200, 0.045, 2), c(1, 5)), 4)
> rownames(mat) <- "$y_{t-1}$"
> colnames(mat) <- c("$R^2$", "$\\bar{R}^2$", "F-stat", "S.E.E",
+   "DW")
> mat <- xtable(mat)
```

```
> print(mat, sanitize.text.function = function(x) {
+       x
+ })
```

	R^2	R^2	F-stat	S.E.E	DW
y_{t-1}	0.90	0.89	200.00	0.04	2.00

4 Format examples

4.1 Adding a centering environment

```
> print(xtable(lm.D9, caption = "\\tt latex.environment=NULL"),
+       latex.environment = NULL)
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	5.0320	0.2202	22.85	0.0000
groupTrt	-0.3710	0.3114	-1.19	0.2490

Table 1: latex.environment=NULL

```
> print(xtable(lm.D9, caption = "\\tt latex.environment=\"\""),
+       latex.environment = "")
```

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	5.0320	0.2202	22.85	0.0000
groupTrt	-0.3710	0.3114	-1.19	0.2490

Table 2: latex.environment=""

```
> print(xtable(lm.D9, caption = "\\tt latex.environment=\"center\""),
+       latex.environment = "center")
```

4.2 Column alignment

```
> tli.table <- xtable(tli[1:10, ])
> align(tli.table) <- rep("r", 6)
> print(tli.table, floating = FALSE)
```


	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	5.0320	0.2202	22.85	0.0000
groupTrt	-0.3710	0.3114	-1.19	0.2490

Table 3: `latex.environment="center"`

	grade	sex	disadv	ethnicity	timth
1	6.00	M	YES	HISPANIC	43.00
2	7.00	M	NO	BLACK	88.00
3	5.00	F	YES	HISPANIC	34.00
4	3.00	M	YES	HISPANIC	65.00
5	8.00	M	YES	WHITE	75.00
6	5.00	M	NO	BLACK	74.00
7	8.00	F	YES	HISPANIC	72.00
8	4.00	M	YES	BLACK	79.00
9	6.00	M	NO	WHITE	88.00
10	7.00	M	YES	HISPANIC	87.00

4.2.1 Single string and column lines

```
> align(tli.table) <- "|rrl|l|lr|"
> print(tli.table, floating = FALSE)
```

	grade	sex	disadv	ethnicity	timth
1	6.00	M	YES	HISPANIC	43.00
2	7.00	M	NO	BLACK	88.00
3	5.00	F	YES	HISPANIC	34.00
4	3.00	M	YES	HISPANIC	65.00
5	8.00	M	YES	WHITE	75.00
6	5.00	M	NO	BLACK	74.00
7	8.00	F	YES	HISPANIC	72.00
8	4.00	M	YES	BLACK	79.00
9	6.00	M	NO	WHITE	88.00
10	7.00	M	YES	HISPANIC	87.00

4.2.2 Fixed width columns

```
> align(tli.table) <- "|rr|lp{3cm}l|r|"
> print(tli.table, floating = FALSE)
```

	grade	sex	disadv	ethnicity	tlmth
1	6.00	M	YES	HISPANIC	43.00
2	7.00	M	NO	BLACK	88.00
3	5.00	F	YES	HISPANIC	34.00
4	3.00	M	YES	HISPANIC	65.00
5	8.00	M	YES	WHITE	75.00
6	5.00	M	NO	BLACK	74.00
7	8.00	F	YES	HISPANIC	72.00
8	4.00	M	YES	BLACK	79.00
9	6.00	M	NO	WHITE	88.00
10	7.00	M	YES	HISPANIC	87.00

4.3 Significant digits

Specify with a single argument

```
> digits(tli.table) <- 3

> print(tli.table, floating = FALSE, )
```

	grade	sex	disadv	ethnicity	tlmth
1	6.000	M	YES	HISPANIC	43.000
2	7.000	M	NO	BLACK	88.000
3	5.000	F	YES	HISPANIC	34.000
4	3.000	M	YES	HISPANIC	65.000
5	8.000	M	YES	WHITE	75.000
6	5.000	M	NO	BLACK	74.000
7	8.000	F	YES	HISPANIC	72.000
8	4.000	M	YES	BLACK	79.000
9	6.000	M	NO	WHITE	88.000
10	7.000	M	YES	HISPANIC	87.000

or one for each column, counting the row names

```
> digits(tli.table) <- 1:(ncol(tli) + 1)

> print(tli.table, floating = FALSE, )
```

	grade	sex	disadv	ethnicity	tlmth
1	6.00	M	YES	HISPANIC	43.000000
2	7.00	M	NO	BLACK	88.000000
3	5.00	F	YES	HISPANIC	34.000000
4	3.00	M	YES	HISPANIC	65.000000
5	8.00	M	YES	WHITE	75.000000
6	5.00	M	NO	BLACK	74.000000
7	8.00	F	YES	HISPANIC	72.000000
8	4.00	M	YES	BLACK	79.000000
9	6.00	M	NO	WHITE	88.000000
10	7.00	M	YES	HISPANIC	87.000000

or as a full matrix

```
> digits(tli.table) <- matrix(0:4, nrow = 10, ncol = ncol(tli) +
+ 1)
```

```
> print(tli.table, floating = FALSE, )
```

	grade	sex	disadv	ethnicity	tlmth
1	6	M	YES	HISPANIC	43
2	7.0	M	NO	BLACK	88.0
3	5.00	F	YES	HISPANIC	34.00
4	3.000	M	YES	HISPANIC	65.000
5	8.0000	M	YES	WHITE	75.0000
6	5	M	NO	BLACK	74
7	8.0	F	YES	HISPANIC	72.0
8	4.00	M	YES	BLACK	79.00
9	6.000	M	NO	WHITE	88.000
10	7.0000	M	YES	HISPANIC	87.0000

4.4 Suppress row names

```
> print((tli.table), include.rownames = FALSE, floating = FALSE)
```

grade	sex	disadv	ethnicity	tlmth
6	M	YES	HISPANIC	43
7.0	M	NO	BLACK	88.0
5.00	F	YES	HISPANIC	34.00
3.000	M	YES	HISPANIC	65.000
8.0000	M	YES	WHITE	75.0000
5	M	NO	BLACK	74
8.0	F	YES	HISPANIC	72.0
4.00	M	YES	BLACK	79.00
6.000	M	NO	WHITE	88.000
7.0000	M	YES	HISPANIC	87.0000

4.5 Suppress column names

```
> print((tli.table), include.colnames = FALSE, floating = FALSE)
```

1	6	M	YES	HISPANIC	43
2	7.0	M	NO	BLACK	88.0
3	5.00	F	YES	HISPANIC	34.00
4	3.000	M	YES	HISPANIC	65.000
5	8.0000	M	YES	WHITE	75.0000
6	5	M	NO	BLACK	74
7	8.0	F	YES	HISPANIC	72.0
8	4.00	M	YES	BLACK	79.00
9	6.000	M	NO	WHITE	88.000
10	7.0000	M	YES	HISPANIC	87.0000

Note the doubled header lines which can be suppressed with, eg,

```
> print(tli.table, include.colnames = FALSE, floating = FALSE,
+       hline.after = c(0, nrow(tli.table)))
```

1	6	M	YES	HISPANIC	43
2	7.0	M	NO	BLACK	88.0
3	5.00	F	YES	HISPANIC	34.00
4	3.000	M	YES	HISPANIC	65.000
5	8.0000	M	YES	WHITE	75.0000
6	5	M	NO	BLACK	74
7	8.0	F	YES	HISPANIC	72.0
8	4.00	M	YES	BLACK	79.00
9	6.000	M	NO	WHITE	88.000
10	7.0000	M	YES	HISPANIC	87.0000

4.6 Suppress row and column names

```
> print((tli.table), include.colnames = FALSE, include.rownames = FALSE,
+       floating = FALSE)
```

6	M	YES	HISPANIC	43
7.0	M	NO	BLACK	88.0
5.00	F	YES	HISPANIC	34.00
3.000	M	YES	HISPANIC	65.000
8.0000	M	YES	WHITE	75.0000
5	M	NO	BLACK	74
8.0	F	YES	HISPANIC	72.0
4.00	M	YES	BLACK	79.00
6.000	M	NO	WHITE	88.000
7.0000	M	YES	HISPANIC	87.0000

4.7 Horizontal lines

```
> print(xtable(anova(glm.D93)), hline.after = c(1), floating = FALSE)
```

	Df	Deviance	Resid. Df	Resid. Dev
NULL			8	10.58
outcome	2	5.45	6	5.13
treatment	2	0.00	4	5.13

4.8 Table-level \LaTeX

```
> print(xtable(anova(glm.D93)), size = "small", floating = FALSE)
```

	Df	Deviance	Resid. Df	Resid. Dev
NULL			8	10.58
outcome	2	5.45	6	5.13
treatment	2	0.00	4	5.13

4.9 Long tables

Remember to insert `\usepackage{longtable}` in your LaTeX preamble. See Table 4.

```
> x <- matrix(rnorm(1000), ncol = 10)
> x.big <- xtable(x, label = "tabbig", caption = "Example of longtable spanning several pa
```

```
> print(x.big, tabular.environment = "longtable", floating = FALSE)
```

	1	2	3	4	5	6	7	8	9	10
1	0.81	-2.67	0.52	0.09	-1.83	-0.74	0.64	1.35	0.59	-1.53
2	-0.07	-0.49	-0.09	0.09	-0.02	0.67	-0.45	0.52	0.42	-0.59
3	0.27	1.23	-0.72	-0.47	-0.34	0.96	-2.32	1.39	-0.63	-0.37
4	1.31	0.68	0.67	-0.56	-1.20	-1.60	0.10	0.73	-1.19	-0.86
5	1.24	-1.04	1.16	0.46	-2.13	1.16	-0.70	-0.34	-1.13	0.32
6	-0.96	1.17	-0.14	-0.61	-0.44	2.05	-0.75	-1.34	-0.47	-0.35
7	-0.41	0.20	-1.99	-0.58	-1.42	-0.14	-0.83	-0.93	0.48	0.48
8	-0.25	0.90	0.39	0.47	0.11	-1.15	0.16	0.96	-2.12	0.54
9	1.13	1.26	0.74	-0.85	0.92	0.78	-0.34	0.18	-0.35	-1.97
10	1.09	0.90	0.72	0.23	-0.79	1.51	0.39	-0.88	1.12	0.65
11	1.63	0.08	-0.64	-0.17	-0.74	1.32	0.81	0.32	0.20	-1.67
12	0.33	-0.51	-0.64	0.61	-1.46	-1.25	-1.98	-1.70	1.46	-0.57
13	0.60	0.74	0.20	-1.62	1.31	-0.87	-0.90	0.32	0.03	1.30
14	-0.37	-0.57	-0.53	-1.78	0.11	-0.06	1.02	0.38	-0.40	-1.06
15	-0.63	-1.03	-0.67	-0.52	0.67	0.36	-1.26	-1.35	1.84	-1.51
16	-1.70	1.87	-0.18	0.30	-1.06	0.94	0.70	1.15	-1.57	0.35
17	-1.19	1.49	0.09	0.63	-0.40	-0.49	-0.44	2.04	-1.81	-0.79
18	0.74	-0.48	0.84	-1.04	0.95	0.16	-1.36	0.11	1.37	2.38
19	0.33	-0.14	0.47	1.34	1.33	0.57	0.22	-0.12	1.09	-1.03
20	0.46	-0.26	-1.69	1.79	-0.58	-1.11	1.36	-0.53	1.86	0.96
21	-0.56	1.66	-1.02	0.83	0.54	-0.52	-1.30	-2.48	1.42	-1.32
22	0.11	1.92	-0.94	0.49	-0.60	-0.32	-0.02	0.25	-0.05	0.33
23	-1.04	0.01	0.94	-0.22	1.27	-0.67	-0.42	-0.50	1.02	1.48
24	0.48	0.26	0.55	0.76	-1.05	-0.81	-0.78	0.71	-1.27	0.84
25	-2.04	-0.58	-1.35	-0.24	0.44	0.84	0.27	-0.48	-0.95	0.51
26	1.20	2.17	-0.59	0.03	-0.45	0.41	-0.33	-0.21	-0.89	1.04
27	-0.98	0.33	0.01	0.51	0.24	-0.26	0.29	0.67	-0.04	-1.07
28	-0.05	0.88	-0.27	-0.33	-0.20	-0.18	1.11	1.30	-0.87	-0.96
29	-0.56	0.08	-1.61	0.35	-1.95	-0.17	0.51	0.34	1.71	-0.08
30	0.34	-1.64	-0.87	0.67	-0.76	0.84	0.69	1.81	0.56	0.70
31	-2.04	0.09	0.41	1.09	-1.30	0.69	-2.42	-0.24	-1.00	0.01
32	-1.16	0.48	-1.27	1.25	0.66	-0.20	-0.24	-0.60	1.21	0.79
33	0.17	0.95	0.28	0.55	-0.48	0.31	0.64	2.75	-0.56	-0.39
34	-0.33	0.32	-0.96	1.14	0.86	-0.16	0.65	0.45	0.44	-0.71
35	-1.24	-1.74	0.25	1.22	-1.06	0.06	0.29	-0.41	-0.28	-0.11
36	-0.11	-1.11	-0.21	0.45	-0.99	0.09	0.65	1.18	-0.56	-1.01
37	-2.01	-1.42	0.31	-0.98	0.50	0.18	-0.85	-1.56	-0.13	-0.05
38	0.03	0.30	2.94	0.69	-1.08	0.02	0.02	0.00	1.04	-0.59
39	1.16	0.74	-1.91	-0.06	1.21	-1.46	-1.06	-0.82	0.23	-0.90
40	0.53	-0.28	0.91	-0.40	-0.21	0.74	0.62	-0.93	0.43	-1.57
41	-0.82	3.57	-1.25	0.85	-1.86	0.47	-0.40	1.09	-2.10	0.95
42	0.33	1.20	-0.41	-2.10	0.16	0.24	-0.47	-0.80	-1.69	-0.48
43	-0.31	-0.54	-1.11	-1.86	2.06	0.69	-0.97	-1.56	-0.71	-1.39
44	-0.92	-0.98	-0.38	0.62	-1.21	-1.15	0.53	-0.38	0.94	0.19
45	-0.91	1.25	0.41	-1.19	-0.22	2.00	1.22	-1.97	-0.87	0.47
46	-1.46	-0.30	-0.02	0.01	0.34	0.96	0.38	-0.81	-0.85	-0.44

47	1.56	-0.16	0.06	-2.07	-0.01	-0.32	0.00	1.81	-0.56	0.15
48	0.73	-2.05	1.15	-1.74	0.85	-1.04	-0.70	0.46	0.97	-2.22
49	0.71	0.85	-1.15	0.77	-0.10	-0.79	1.55	-0.48	0.69	0.64
50	-0.15	1.45	-0.74	-0.20	0.43	-0.92	-0.33	-1.36	2.05	-0.88
51	-0.02	0.50	0.95	0.17	0.68	-0.17	1.22	0.46	0.04	-0.44
52	1.35	-1.03	-0.28	1.74	0.90	-1.29	0.29	0.92	1.39	0.01
53	0.42	-1.12	1.62	-0.42	0.87	-1.50	1.01	0.01	-0.04	-1.00
54	-0.53	1.26	0.83	-0.41	-0.05	1.19	1.43	0.22	0.33	0.42
55	-1.26	-0.95	0.10	0.07	-0.44	1.08	-0.77	-0.52	-0.00	-0.53
56	-0.83	0.07	0.98	-0.40	-0.56	-0.38	-1.42	-1.46	0.01	-0.23
57	-0.20	-1.56	0.59	-0.05	1.16	-1.18	-0.42	0.93	1.55	-0.35
58	1.80	1.16	-1.15	0.00	0.85	0.34	0.45	0.67	1.47	0.86
59	-0.58	1.26	-0.63	1.04	-0.80	0.99	-0.47	-1.53	-0.76	-0.82
60	-0.77	-0.49	-1.10	-1.01	1.74	-1.37	0.51	0.79	-1.44	1.66
61	-1.24	0.46	-1.15	0.02	-2.17	0.08	0.72	0.78	-2.58	-1.26
62	0.61	-0.94	-0.10	1.64	0.16	-0.97	0.68	0.06	1.10	-2.23
63	-0.31	0.10	-0.12	1.33	-1.57	-0.75	-0.10	-0.12	-0.21	-0.20
64	-0.26	0.10	-0.08	0.51	-0.28	-0.89	-0.13	-1.38	0.13	-0.27
65	0.48	0.19	0.04	1.78	-1.54	-3.09	1.03	-0.97	0.53	-0.49
66	0.82	0.24	-0.17	-0.05	1.21	1.70	-0.80	1.28	0.31	-0.01
67	-0.55	-0.18	0.16	0.18	1.28	-0.70	-0.97	0.26	-0.12	2.23
68	0.15	1.60	1.78	-1.15	2.00	0.03	-1.70	-1.58	-1.46	0.75
69	1.10	-0.38	0.87	-0.99	-0.51	0.38	0.62	-1.32	-0.10	-1.69
70	0.39	-1.77	0.27	-1.32	0.93	-1.48	-0.46	0.23	-1.15	0.78
71	-0.04	0.82	0.39	0.65	0.62	-0.41	-0.35	1.04	1.61	0.53
72	1.48	-0.88	-0.17	0.89	0.48	-1.27	-0.07	0.59	0.44	0.29
73	-0.72	-0.26	-1.51	0.87	-1.32	-0.29	-1.49	-0.58	1.50	-0.37
74	-2.12	1.88	0.27	-0.08	0.63	1.11	0.04	-0.56	0.49	0.97
75	-0.60	1.04	-0.17	-0.52	-0.37	0.81	0.49	1.71	-0.38	-0.81
76	-1.23	1.52	-0.34	0.41	-0.32	-0.51	-0.93	0.93	1.01	0.81
77	-0.22	-0.68	-0.67	-0.74	-0.78	0.38	-0.18	0.85	-0.88	0.10
78	1.28	1.46	-1.16	-1.05	0.47	-0.08	-0.97	-0.50	-1.30	-1.38
79	0.44	-1.90	0.88	1.91	-0.87	-0.34	-0.66	-1.06	0.86	-0.02
80	0.63	0.35	0.29	0.18	-0.47	1.46	-1.76	-1.19	0.70	-1.14
81	0.54	0.28	0.82	-0.37	-1.53	0.23	-0.52	1.19	0.59	-0.30
82	-0.22	0.31	0.36	0.27	0.01	-1.21	1.42	0.81	1.64	1.08
83	0.26	-1.15	0.00	-0.14	-0.54	0.84	-1.12	1.43	-0.81	1.20
84	-1.40	0.44	0.89	0.14	-0.66	0.82	0.09	3.04	0.98	-0.74
85	0.43	-0.19	-0.31	-0.46	0.65	0.64	-2.44	-0.14	0.41	-0.88
86	1.14	0.64	1.25	-0.53	0.76	0.03	1.17	0.23	-0.45	2.51
87	0.14	-0.60	0.79	-1.34	-0.77	0.34	0.33	-0.14	0.89	-0.15
88	2.49	-0.23	-0.38	-0.36	0.94	1.33	-0.74	0.97	-0.87	0.17
89	1.25	0.41	-1.65	-1.38	1.29	-1.14	0.92	2.32	1.88	-0.31
90	1.07	-0.84	0.24	0.20	0.39	0.99	1.27	0.92	-0.45	0.73
91	0.95	1.02	0.18	-1.28	-0.56	-0.20	-0.38	-1.34	-0.16	0.44
92	0.33	0.50	-0.25	-0.05	0.39	0.99	-1.58	-0.03	1.43	-0.75
93	-0.66	0.87	0.19	0.64	-1.08	-0.70	-0.87	0.13	-2.51	-1.26
94	-0.38	-0.32	1.23	0.45	-0.86	0.65	-1.21	-0.95	1.10	-0.24
95	0.78	0.05	-1.26	0.41	0.04	1.13	1.15	-0.47	-1.14	-0.36
96	0.06	0.03	-0.02	-0.29	-1.18	1.34	-0.85	-1.96	-0.00	0.23

97	0.03	-0.13	-1.01	0.65	1.44	-1.70	0.34	-0.50	1.56	1.35
98	-0.35	1.63	0.60	0.77	1.52	0.22	0.39	1.13	-1.04	-1.63
99	-0.58	1.44	-0.70	-1.26	-0.18	1.76	0.82	0.41	-1.47	1.66
100	0.55	-0.25	-0.78	-0.61	-0.06	1.53	1.05	2.16	-1.55	0.84

Table 4: Example of longtable spanning several pages

4.10 Sideways tables

Remember to insert `\usepackage{rotating}` in your LaTeX preamble. Sideways tables can't be forced in place with the 'H' specifier, but you can use the `\clearpage` command to get them fairly nearby. See Table 5.

```
> x <- x[1:30, ]
> x.small <- xtable(x, label = "tabsmall", caption = "A sideways table")
> print(x.small, floating.environment = "sidewaystable")
```

	1	2	3	4	5	6	7	8	9	10
1	0.81	-2.67	0.52	0.09	-1.83	-0.74	0.64	1.35	0.59	-1.53
2	-0.07	-0.49	-0.09	0.09	-0.02	0.67	-0.45	0.52	0.42	-0.59
3	0.27	1.23	-0.72	-0.47	-0.34	0.96	-2.32	1.39	-0.63	-0.37
4	1.31	0.68	0.67	-0.56	-1.20	-1.60	0.10	0.73	-1.19	-0.86
5	1.24	-1.04	1.16	0.46	-2.13	1.16	-0.70	-0.34	-1.13	0.32
6	-0.96	1.17	-0.14	-0.61	-0.44	2.05	-0.75	-1.34	-0.47	-0.35
7	-0.41	0.20	-1.99	-0.58	-1.42	-0.14	-0.83	-0.93	0.48	0.48
8	-0.25	0.90	0.39	0.47	0.11	-1.15	0.16	0.96	-2.12	0.54
9	1.13	1.26	0.74	-0.85	0.92	0.78	-0.34	0.18	-0.35	-1.97
10	1.09	0.90	0.72	0.23	-0.79	1.51	0.39	-0.88	1.12	0.65
11	1.63	0.08	-0.64	-0.17	-0.74	1.32	0.81	0.32	0.20	-1.67
12	0.33	-0.51	-0.64	0.61	-1.46	-1.25	-1.98	-1.70	1.46	-0.57
13	0.60	0.74	0.20	-1.62	1.31	-0.87	-0.90	0.32	0.03	1.30
14	-0.37	-0.57	-0.53	-1.78	0.11	-0.06	1.02	0.38	-0.40	-1.06
15	-0.63	-1.03	-0.67	-0.52	0.67	0.36	-1.26	-1.35	1.84	-1.51
16	-1.70	1.87	-0.18	0.30	-1.06	0.94	0.70	1.15	-1.57	0.35
17	-1.19	1.49	0.09	0.63	-0.40	-0.49	-0.44	2.04	-1.81	-0.79
18	0.74	-0.48	0.84	-1.04	0.95	0.16	-1.36	0.11	1.37	2.38
19	0.33	-0.14	0.47	1.34	1.33	0.57	0.22	-0.12	1.09	-1.03
20	0.46	-0.26	-1.69	1.79	-0.58	-1.11	1.36	-0.53	1.86	0.96
21	-0.56	1.66	-1.02	0.83	0.54	-0.52	-1.30	-2.48	1.42	-1.32
22	0.11	1.92	-0.94	0.49	-0.60	-0.32	-0.02	0.25	-0.05	0.33
23	-1.04	0.01	0.94	-0.22	1.27	-0.67	-0.42	-0.50	1.02	1.48
24	0.48	0.26	0.55	0.76	-1.05	-0.81	-0.78	0.71	-1.27	0.84
25	-2.04	-0.58	-1.35	-0.24	0.44	0.84	0.27	-0.48	-0.95	0.51
26	1.20	2.17	-0.59	0.03	-0.45	0.41	-0.33	-0.21	-0.89	1.04
27	-0.98	0.33	0.01	0.51	0.24	-0.26	0.29	0.67	-0.04	-1.07
28	-0.05	0.88	-0.27	-0.33	-0.20	-0.18	1.11	1.30	-0.87	-0.96
29	-0.56	0.08	-1.61	0.35	-1.95	-0.17	0.51	0.34	1.71	-0.08
30	0.34	-1.64	-0.87	0.67	-0.76	0.84	0.69	1.81	0.56	0.70

Table 5: A sideways table

5 Acknowledgements

Most of the examples in this gallery are taken from the `xtable` documentation.

6 R Session information

```
> toLatex(sessionInfo())
```

- R version 2.5.0 (2007-04-23), x86_64-unknown-linux-gnu
- Locale: LC_CTYPE=en_US.UTF-8;LC_NUMERIC=C;LC_TIME=en_US.UTF-8;LC_COLLATE=en_US.UTF-8;LC_MONETARY=en_US.UTF-8;LC_MESSAGES=en_US.UTF-8;LC_PAPER=en_US.UTF-8;LC_NAME=C;LC_ADDRESS=C;LC_TELEPHONE=C;LC_MEASUREMENT=en_US.UTF-8;LC_IDENTIFICATION=C
- Base packages: base, datasets, graphics, grDevices, methods, stats, tools, utils
- Other packages: xtable 1.4-5