ascii

COLLABORATORS

	TITLE : ascii	

ACTION	*NAME*	*DATE*	*SIGNATURE*
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

List of Tables

ascii is a R package for writing asciidoc or txt2tags document with embeded R commands.

1 news

1.1 2009/07/16

- version 0.2
- digit and format accept matrix, (each cell can have its own number of digits a nd format)
- new arguments (`cgroup`, `rgroup`, ...) to define major column and row heading s like in Hmisc::latex() (only for asciidoc output)
- column style and alignment use cell specifiers
- remove SweaveSyntaxAscii (bug when `]` is used inside `Sexpr:[]`)

1.2 2009/05/11

- `\SweaveOpts{}` now works
- add `SweaveSyntaxAscii` (`SweaveOpts:[]`, `Sexpr:[]`)
- add a simple wrapper for `Sweave()` (`SweaveAscii()`) that use `RweaveAsciidoc` and `SweaveSyntaxAscii` as default

1.3 2009/04/27

- add a `caption.level` argument
- improve `ascii.describe` output (package `Hmisc`)

1.4 2009/04/08

- update DESCRIPTION (with homepage)
- support for `describe` function in package `Hmisc`

2 short example

```
<<>>=
x <- matrix(1:4, 2, 2)
x
@
```

gives :

```
> x <- matrix(1:4, 2, 2)
> x
     [,1] [,2]
[1,]    1    3
[2,]    2    4
```

```
<<results=ascii,echo=FALSE>>=
ascii(x, caption = "A simple matrix", width = 30)
@
```

gives :

1.00	3.00
2.00	4.00

Table 1: A simple matrix

3 what ascii provides

ascii provided :

- a generic method for common R objects: `ascii()`. Default argument depends of R object,
- two Sweave drivers: `Sweave("yourfile.Rnw", RweaveAsciidoc())` or `Sweave("yourfile.Rnw", RweaveT2t())`,
- a simple wrapper for `Sweave()` names `SweaveAscii()` that uses `RweaveAsciidoc()` as default.

4 ascii manual

5 ascii examples

ascii provides methods for:

```
> methods(ascii)
 [1] ascii.anova*           ascii.aov*             ascii.aovlist*
 [4] ascii.cast_df*         ascii.character*       ascii.coxph*
 [7] ascii.data.frame*      ascii.default*         ascii.density*
[10] ascii.describe*        ascii.describe.single* ascii.factor*
[13] ascii.glm*             ascii.htest*           ascii.integer*
[16] ascii.list*            ascii.lm*              ascii.matrix*
[19] ascii.numeric*         ascii.prcomp*          ascii.simple.list*
[22] ascii.smooth.spline*   ascii.summary.aov*     ascii.summary.aovlist*
[25] ascii.summary.glm*     ascii.summary.lm*      ascii.summary.prcomp*
[28] ascii.summary.table*   ascii.survdiff*        ascii.table*
[31] ascii.ts*              ascii.zoo*

   Non-visible functions are asterisked
```

5.1 vector

```
> ascii(1:4)
|==========================
| 1.00 | 2.00 | 3.00 | 4.00
|==========================
```

1.00	2.00	3.00	4.00

5.2 matrix

```
> ascii(VADeaths, include.rownames = T, include.colnames = T, caption = "VADeaths",
+     header = T, col.width = c(1, 2, 2, 2, 2, 2), valign = "middle",
+     align = "lrrrr", frame = "topbot")
.VADeaths
[frame="topbot",valign="middle",options="header",cols="1,2,2,2,2"]
|=================================================================================
<.^|       >.^| Rural Male >.^| Rural Female >.^| Urban Male >.^| Urban Female
<.^| 50-54 >.^| 11.70      >.^| 8.70         >.^| 15.40      >.^| 8.40
<.^| 55-59 >.^| 18.10      >.^| 11.70        >.^| 24.30      >.^| 13.60
<.^| 60-64 >.^| 26.90      >.^| 20.30        >.^| 37.00      >.^| 19.30
<.^| 65-69 >.^| 41.00      >.^| 30.90        >.^| 54.60      >.^| 35.10
```

x	An R object of class found among `methods(ascii)`.
include.rownames	logical. If `TRUE` the rows names are printed. Default value depends of class of `x`.
include.colnames	logical. If `TRUE` the columns names are printed. Default value depends of class of `x`.
format	Character vector of length equal to the number of columns of the resulting table (otherwise it will be replicated or truncated as necessary) indicating the format for the corresponding columns. These values are passed to the `formatC` function. Use `"d"` (for integers), `"f"`, `"e"`, `"E"`, `"g"`, `"G"`, `"fg"` (for reals), or `"s"` (for strings). `"f"` gives numbers in the usual `xxx.xxx` format; `"e"` and `"E"` give `n.ddde+nn` or `n.dddE+nn` (scientific format); `"g"` and `"G"` put `x[i]` into scientific format only if it saves space to do so. `"fg"` uses fixed format as `"f"`, but `digits` as number of *significant* digits. Note that this can lead to quite long result strings. Default depends on the class of `x`.
digits	Numeric vector of length equal to the number of columns of the resulting table (otherwise it will be replicated or truncated as necessary) indicating the number of digits to display in the corresponding columns. Default is `2`. decimal.mark: The character to be used to indicate the numeric decimal point. Default is `"."`.
na.print	The character string specifying how `NA` should be formatted specially. Default is "".
caption	Character vector of length 1 containing the table+s caption or title. Set to `""` to suppress the caption. Default value is `""`.
caption.level	Character or numeric vector of length 1 containing the \code{"."} (block titles in asciidoc markup), \code{"s"} (strong), \code{"e"} (emphasis), \code{"m"} (monospaced) or \code{""} (no markup). Default is \code{"."}.
width	Numeric vector of length one containing the table width relative to the available width (expressed as a percentage value, `1... 99`). Default is `0` (all available width).
frame	Character vector of length one. Defines the table border, and can take the following values: `"topbot"` (top and bottom), `"all"` (all sides), `"none"` and `"sides"` (left and right). The default value is `""`.
grid	Character vector of length one. Defines which ruler lines are drawn between table rows and columns, and can take the following values: `"all"`, `"rows"`, `"cols"` and `"none"`. Default is `""`.
valign	Character vector of length one indicating vertical alignment of all cells in table. Can take the following values: `"top"`, `"bottom"` and `"middle"`. Default is `""`.
header	logical. If `TRUE` the first line of the table is emphasized. The default value depends of class of `x`.
footer	logical. If `TRUE` the last line of the table is emphasized. The default value depends of class of `x`.
align	Character vector of length one indicating the alignment of the corresponding columns. Can be composed with `"r"` (right), `"l"` (left) and `"c"` (center). Default value is `""`.
col.width	Numeric vector of length equal to the number of columns of the resulting table (otherwise it will be replicated or truncated as necessary) indicating width of the corresponding columns (integer proportional values). Default is `1`.
style	Character vector of length one indicating the style of the corresponding columns. Can be composed with `"d"` (default), `"e"` (emphasis), `"m"` (monospaced), `"a"` (cells can contain any of the AsciiDoc elements that are allowed inside document), `"l"` (literal), `"v"` (verse; all line breaks are retained). Default is `""`.
cgroup	Character vector defining major column headings. The default is to have none (`NULL`).
n.cgroup	A numeric vector containing the number of columns for which each element in cgroup is a heading. For example, specify `cgroup=c("Major 1","Major 2")', 'n.cgroup=c(3,3)` if `"Major 1"` is to span columns 1-3 and `"Major 2"` is to span columns 4-6. Row names count in the column numbers if `include.rownames = TRUE`.

`x`	An object of class `"ascii"`
`type`	Type of syntax produce. Possible values for `type` are `"asciidoc"`, `"t2t"` or `"textile"`. Default value produce AsciiDoc syntax.
`...`	Additional arguments. (Currently ignored.)

Table 3: print.ascii

```
<.^| 70-74 >.^| 66.00      >.^| 54.30        >.^| 71.10      >.^| 50.00
|================================================================================
```

	Rural Male	Rural Female	Urban Male	Urban Female
50-54	11.70	8.70	15.40	8.40
55-59	18.10	11.70	24.30	13.60
60-64	26.90	20.30	37.00	19.30
65-69	41.00	30.90	54.60	35.10
70-74	66.00	54.30	71.10	50.00

Table 4: VADeaths

5.3 data.frame

```
> ascii(iris[1:10, ], include.rownames = F, caption = "iris", width = 75,
+     align = "c", valign = "bottom", frame = "topbot", grid = "none")
.iris
[frame="topbot",grid="none",valign="bottom",options="header",width="75%"]
|================================================================================
^.>| Sepal.Length ^.>| Sepal.Width ^.>| Petal.Length ^.>| Petal.Width ^.>| Species
^.>| 5.10         ^.>| 3.50        ^.>| 1.40         ^.>| 0.20        ^.>| setosa
^.>| 4.90         ^.>| 3.00        ^.>| 1.40         ^.>| 0.20        ^.>| setosa
^.>| 4.70         ^.>| 3.20        ^.>| 1.30         ^.>| 0.20        ^.>| setosa
^.>| 4.60         ^.>| 3.10        ^.>| 1.50         ^.>| 0.20        ^.>| setosa
^.>| 5.00         ^.>| 3.60        ^.>| 1.40         ^.>| 0.20        ^.>| setosa
^.>| 5.40         ^.>| 3.90        ^.>| 1.70         ^.>| 0.40        ^.>| setosa
^.>| 4.60         ^.>| 3.40        ^.>| 1.40         ^.>| 0.30        ^.>| setosa
^.>| 5.00         ^.>| 3.40        ^.>| 1.50         ^.>| 0.20        ^.>| setosa
^.>| 4.40         ^.>| 2.90        ^.>| 1.40         ^.>| 0.20        ^.>| setosa
^.>| 4.90         ^.>| 3.10        ^.>| 1.50         ^.>| 0.10        ^.>| setosa
|================================================================================
```

5.4 row (and col) headings

```
> library(reshape)
> ff_d <- melt(french_fries, id = 1:4, na.rm = TRUE)
> toto <- cast(ff_d, treatment + subject ~ variable, mean, margins = "treatment")
> ascii(toto[, -1], rgroup = c("Treatment", paste("Treatment:",
+     as.character(unique(toto[, 1])))), n.rgroup = c(1, table(toto[,
+     1])), rstyle = "s", rvalign = "middle")
[options="header"]
|================================================================================
.1+.^s| Treatment | subject | potato | buttery | grassy | rancid | painty
.13+.^s| Treatment: 1 | 3       | 6.22   | 0.37    | 0.19   | 2.11   | 3.11
| 10      | 9.96   | 6.75    | 0.58    | 4.02   | 1.38
```

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.10	3.50	1.40	0.20	setosa
4.90	3.00	1.40	0.20	setosa
4.70	3.20	1.30	0.20	setosa
4.60	3.10	1.50	0.20	setosa
5.00	3.60	1.40	0.20	setosa
5.40	3.90	1.70	0.40	setosa
4.60	3.40	1.40	0.30	setosa
5.00	3.40	1.50	0.20	setosa
4.40	2.90	1.40	0.20	setosa
4.90	3.10	1.50	0.10	setosa

Table 5: iris

```
| 15       | 3.36   | 0.72    | 0.42   | 3.96   | 3.26
| 16       | 6.50   | 3.26    | 0.76   | 4.12   | 1.23
| 19       | 9.38   | 3.06    | 2.02   | 5.36   | 2.77
| 31       | 8.84   | 0.44    | 0.09   | 5.94   | 3.21
| 51       | 10.68  | 2.64    | 1.05   | 5.15   | 1.96
| 52       | 5.06   | 0.81    | 0.88   | 4.29   | 2.65
| 63       | 6.78   | 0.03    | 0.00   | 6.05   | 3.85
| 78       | 3.62   | 0.73    | 0.54   | 1.50   | 3.49
| 79       | 8.06   | 0.28    | 0.34   | 0.57   | 0.00
| 86       | 4.18   | 1.77    | 0.81   | 5.49   | 4.11
| (all)    | 6.89   | 1.78    | 0.65   | 4.07   | 2.58
.13+.^s| Treatment: 2 | 3       | 6.74   | 0.59    | 0.11   | 3.14   | 2.48
| 10       | 9.99   | 6.98    | 0.47   | 2.15   | 0.82
| 15       | 4.41   | 1.31    | 0.34   | 2.29   | 2.06
| 16       | 6.45   | 3.37    | 1.05   | 3.40   | 0.46
| 19       | 8.64   | 2.45    | 1.14   | 5.41   | 4.16
| 31       | 8.03   | 0.62    | 0.16   | 6.05   | 5.06
| 51       | 9.98   | 3.79    | 1.57   | 4.67   | 2.25
| 52       | 5.51   | 1.02    | 1.18   | 4.22   | 2.19
| 63       | 8.41   | 0.10    | 0.01   | 5.09   | 4.36
| 78       | 3.78   | 0.29    | 0.76   | 1.55   | 2.73
| 79       | 7.94   | 0.69    | 0.26   | 1.03   | 0.00
| 86       | 3.99   | 2.06    | 0.78   | 4.52   | 2.84
| (all)    | 7.00   | 1.97    | 0.66   | 3.62   | 2.46
.13+.^s| Treatment: 3 | 3       | 5.29   | 0.77    | 0.09   | 2.86   | 2.87
| 10       | 10.03  | 6.45    | 0.14   | 3.11   | 0.69
| 15       | 3.96   | 0.99    | 0.44   | 2.55   | 2.37
| 16       | 6.86   | 2.70    | 1.12   | 3.20   | 0.56
| 19       | 8.74   | 1.73    | 2.07   | 7.24   | 3.90
| 31       | 9.03   | 0.65    | 0.17   | 6.58   | 5.13
| 51       | 10.22  | 3.13    | 1.35   | 4.92   | 2.54
| 52       | 5.47   | 0.86    | 0.77   | 3.16   | 2.66
| 63       | 8.06   | 0.07    | 0.12   | 6.18   | 3.10
| 78       | 4.00   | 0.70    | 0.67   | 1.19   | 3.52
| 79       | 7.73   | 0.57    | 0.12   | 1.18   | 0.03
| 86       | 3.87   | 1.63    | 0.94   | 4.11   | 3.03
| (all)    | 6.97   | 1.72    | 0.68   | 3.87   | 2.53
.0+.^s| Treatment NA
|===============================================================================
```

Treatment	subject	potato	buttery	grassy	rancid	painty
	3	6.22	0.37	0.19	2.11	3.11
	10	9.96	6.75	0.58	4.02	1.38
	15	3.36	0.72	0.42	3.96	3.26

Treatment: 1

Treatment	subject	potato	buttery	grassy	rancid	painty
	16	6.50	3.26	0.76	4.12	1.23
	19	9.38	3.06	2.02	5.36	2.77
	31	8.84	0.44	0.09	5.94	3.21
	51	10.68	2.64	1.05	5.15	1.96
	52	5.06	0.81	0.88	4.29	2.65
	63	6.78	0.03	0.00	6.05	3.85
	78	3.62	0.73	0.54	1.50	3.49
	79	8.06	0.28	0.34	0.57	0.00
	86	4.18	1.77	0.81	5.49	4.11
	(all)	6.89	1.78	0.65	4.07	2.58
Treatment: 2	3	6.74	0.59	0.11	3.14	2.48
	10	9.99	6.98	0.47	2.15	0.82
	15	4.41	1.31	0.34	2.29	2.06
	16	6.45	3.37	1.05	3.40	0.46
	19	8.64	2.45	1.14	5.41	4.16
	31	8.03	0.62	0.16	6.05	5.06
	51	9.98	3.79	1.57	4.67	2.25
	52	5.51	1.02	1.18	4.22	2.19
	63	8.41	0.10	0.01	5.09	4.36
	78	3.78	0.29	0.76	1.55	2.73
	79	7.94	0.69	0.26	1.03	0.00
	86	3.99	2.06	0.78	4.52	2.84
	(all)	7.00	1.97	0.66	3.62	2.46
Treatment: 3	3	5.29	0.77	0.09	2.86	2.87
	10	10.03	6.45	0.14	3.11	0.69
	15	3.96	0.99	0.44	2.55	2.37
	16	6.86	2.70	1.12	3.20	0.56
	19	8.74	1.73	2.07	7.24	3.90
	31	9.03	0.65	0.17	6.58	5.13
	51	10.22	3.13	1.35	4.92	2.54
	52	5.47	0.86	0.77	3.16	2.66
	63	8.06	0.07	0.12	6.18	3.10
	78	4.00	0.70	0.67	1.19	3.52
	79	7.73	0.57	0.12	1.18	0.03
	86	3.87	1.63	0.94	4.11	3.03
	(all)	6.97	1.72	0.68	3.87	2.53

5.5 summary.table

```
> ascii(summary(table(1:4, 1:4)))
* Number of cases in table: 4
* Number of factors: 2
* Test for independence of all factors:
** Chisq = 12, df = 9, p-value = 0.2133
** Chi-squared approximation may be incorrect
```

- Number of cases in table: 4
- Number of factors: 2
- Test for independence of all factors:
  - Chisq = 12, df = 9, p-value = 0.2133
  - Chi-squared approximation may be incorrect

5.6 labeled list

```
> ascii(version)
platform::
   i486-pc-linux-gnu
arch::
  i486
os::
  linux-gnu
system::
  i486, linux-gnu
status::

major::
  2
minor::
  9.1
year::
  2009
month::
  06
day::
  26
svn rev::
  48839
language::
  R
version.string::
  R version 2.9.1 (2009-06-26)
```

platform i486-pc-linux-gnu

arch i486

os linux-gnu

system i486, linux-gnu

status , major 2

minor 9.1

year 2009

month 06

day 26

svn rev 48839

language R

version.string R version 2.9.1 (2009-06-26)

5.7 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())
> glm.D93
```

```
Call:  glm(formula = counts ~ outcome + treatment, family = poisson())

Coefficients:
(Intercept)     outcome2     outcome3   treatment2   treatment3
  3.045e+00   -4.543e-01   -2.930e-01    8.717e-16    4.557e-16

Degrees of Freedom: 8 Total (i.e. Null);  4 Residual
Null Deviance:      10.58
Residual Deviance: 5.129        AIC: 56.76
> ascii(glm.D93, caption = "glm.D93")
.glm.D93
[options="header"]
|=========================================================
|             | Estimate | Std. Error | z value | Pr(>\|z\|)
| (Intercept) | 3.04     | 0.17       | 17.81   | 0.00
| outcome2    | -0.45    | 0.20       | -2.25   | 0.02
| outcome3    | -0.29    | 0.19       | -1.52   | 0.13
| treatment2  | 0.00     | 0.20       | 0.00    | 1.00
| treatment3  | 0.00     | 0.20       | 0.00    | 1.00
|=========================================================
> ascii(anova(glm.D93), caption = "anova glm.D93", include.rownames = T)
.anova glm.D93
[options="header"]
|=================================================
|           | Df   | Deviance | Resid. Df | Resid. Dev
| NULL      |      |          | 8.00      | 10.58
| outcome   | 2.00 | 5.45     | 6.00      | 5.13
| treatment | 2.00 | 0.00     | 4.00      | 5.13
|=================================================
```

	Estimate	**Std. Error**	**z value**	**Pr(>|z|)**
(Intercept)	3.04	0.17	17.81	0.00
outcome2	-0.45	0.20	-2.25	0.02
outcome3	-0.29	0.19	-1.52	0.13
treatment2	0.00	0.20	0.00	1.00
treatment3	0.00	0.20	0.00	1.00

Table 6: glm.D93

	Df	**Deviance**	**Resid. Df**	**Resid. Dev**
NULL			8.00	10.58
outcome	2.00	5.45	6.00	5.13
treatment	2.00	0.00	4.00	5.13

Table 7: anova glm.D93

5.8 describe

```
> library(Hmisc)
> label(esoph$agegp) <- "Age group"
> label(esoph$alcgp) <- "Alcohol group"
> label(esoph$tobgp) <- "Tobacco group"
> label(esoph$ncontrols) <- "Number of control"
> label(esoph$age) <- "Age"
> units(esoph$age) <- "Years"
> ascii(describe(esoph))
```

```
.esoph
* 6 Variable
* 88 Observations

*agegp : Age group*

|======================
| n  | missing | unique
| 88 | 0       | 6
|======================

|=====================================================
|           | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+
| Frequency | 15    | 15    | 16    | 16    | 15    | 11
| %         | 17    | 17    | 18    | 18    | 17    | 12
|=====================================================

*alcgp : Alcohol group*

|======================
| n  | missing | unique
| 88 | 0       | 4
|======================

0-39g/day (23, 26%), 40-79 (23, 26%), 80-119 (21, 24%), 120+ (21, 24%)

*tobgp : Tobacco group*

|======================
| n  | missing | unique
| 88 | 0       | 4
|======================

0-9g/day (24, 27%), 10-19 (24, 27%), 20-29 (20, 23%), 30+ (20, 23%)

*ncases*

|=============================================================================
| n  | missing | unique | Mean  | .05 | .10 | .25 | .50 | .75 | .90 | .95
| 88 | 0       | 10     | 2.273 | 0.0 | 0.0 | 0.0 | 1.0 | 4.0 | 5.3 | 6.0
|=============================================================================

|=====================================================
|           | 0  | 1  | 2  | 3  | 4 | 5 | 6 | 8 | 9 | 17
| Frequency | 29 | 16 | 11 | 9  | 8 | 6 | 5 | 1 | 2 | 1
| %         | 33 | 18 | 12 | 10 | 9 | 7 | 6 | 1 | 2 | 1
|=====================================================

*ncontrols : Number of control*

|=============================================================================
| n  | missing | unique | Mean  | .05  | .10  | .25  | .50  | .75  | .90  | .95
| 88 | 0       | 30     | 11.08 |  1.0 |  1.0 |  3.0 |  6.0 | 14.0 | 29.1 | 40.0
|=============================================================================

lowest:  1  2  3  4  5, highest: 40 46 48 49 60

*age : Age [Years]*

|======================
| n  | missing | unique
| 88 | 0       | 6
```

```
|======================

|=====================================================
|           | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+
| Frequency | 15    | 15    | 16    | 16    | 15    | 11
| %         | 17    | 17    | 18    | 18    | 17    | 12
|=====================================================
```

ESOPH

- 6 Variable
- 88 Observations

agegp : Age group

n	missing	unique
88	0	6

	25-34	35-44	45-54	55-64	65-74	75+
Frequency	15	15	16	16	15	11
%	17	17	18	18	17	12

alcgp : Alcohol group

n	missing	unique
88	0	4

0-39g/day (23, 26%), 40-79 (23, 26%), 80-119 (21, 24%), 120+ (21, 24%)

tobgp : Tobacco group

n	missing	unique
88	0	4

0-9g/day (24, 27%), 10-19 (24, 27%), 20-29 (20, 23%), 30+ (20, 23%)

ncases

n	missing	unique	Mean	.05	.10	.25	.50	.75	.90	.95
88	0	10	2.273	0.0	0.0	0.0	1.0	4.0	5.3	6.0

	0	1	2	3	4	5	6	8	9	17
Frequency	29	16	11	9	8	6	5	1	2	1
%	33	18	12	10	9	7	6	1	2	1

ncontrols : Number of control

n	missing	unique	Mean	.05	.10	.25	.50	.75	.90	.95
88	0	30	11.08	1.0	1.0	3.0	6.0	14.0	29.1	40.0

lowest: 1 2 3 4 5, highest: 40 46 48 49 60

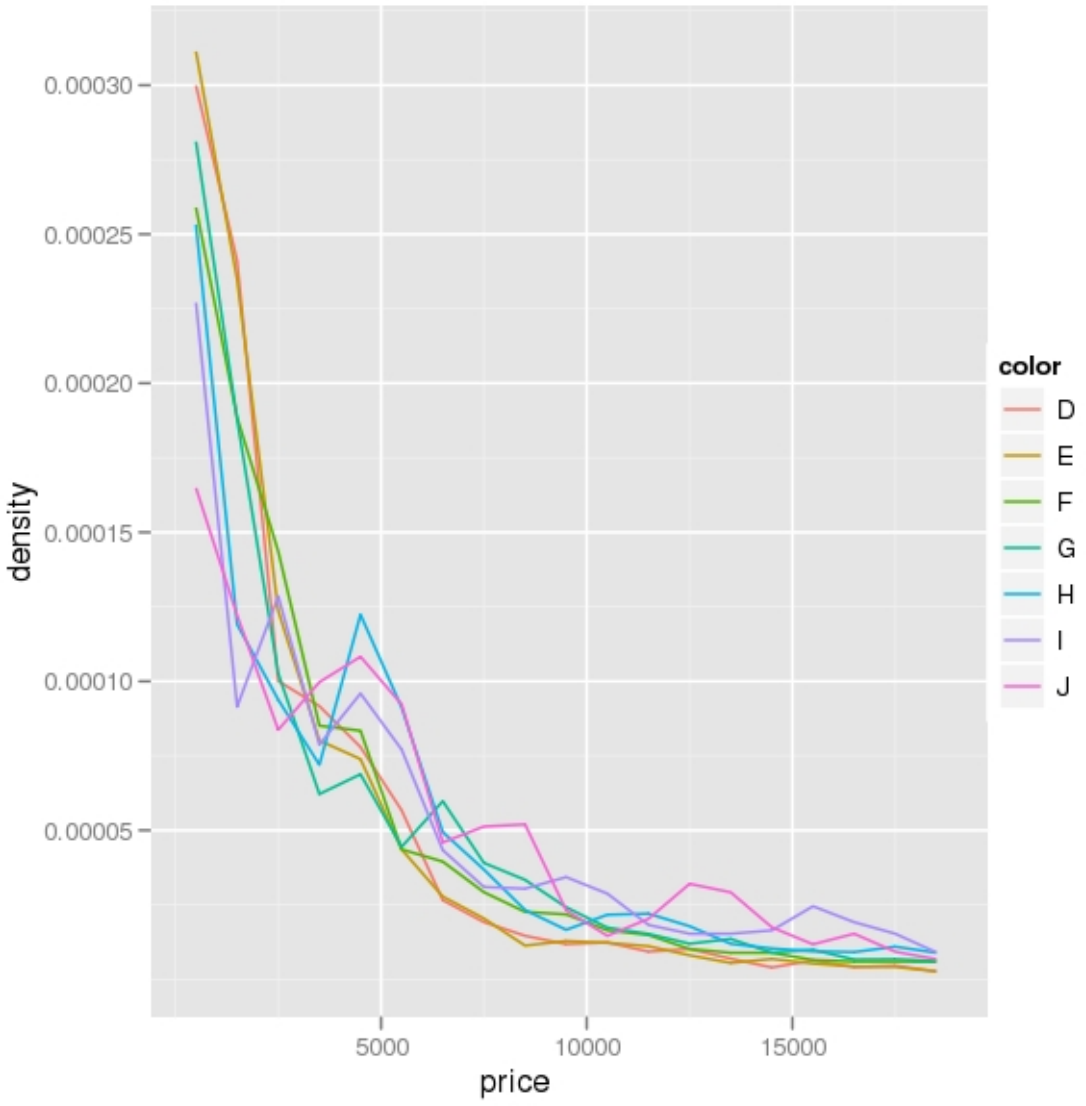
age : Age [Years]

n	missing	unique
88	0	6

	25-34	35-44	45-54	55-64	65-74	75+
Frequency	15	15	16	16	15	11
%	17	17	18	18	17	12

5.9 plot

```
> library(ggplot2)
> p <- qplot(price, ..density.., data = diamonds, geom = "freqpoly",
+     binwidth = 1000, colour = color)
> print(p)
```



5.10 txt2tags

```
> library(reshape)
> names(airquality) <- tolower(names(airquality))
> aqm <- melt(airquality, id = c("month", "day"), na.rm = TRUE)
> res <- cast(aqm, month ~ variable, mean, margins = "grand_row")
> res
  month    ozone  solar.r      wind     temp
1     5 23.61538 181.2963 11.622581 65.54839
2     6 29.44444 190.1667 10.266667 79.10000
3     7 59.11538 216.4839  8.941935 83.90323
4     8 59.96154 171.8571  8.793548 83.96774
5     9 31.44828 167.4333 10.180000 76.90000
6 (all) 42.12931 185.9315  9.957516 77.88235
> print(ascii(res), "t2t")
|| month | ozone | solar.r | wind  | temp  |
| 5     | 23.62 | 181.30  | 11.62 | 65.55 |
| 6     | 29.44 | 190.17  | 10.27 | 79.10 |
| 7     | 59.12 | 216.48  | 8.94  | 83.90 |
| 8     | 59.96 | 171.86  | 8.79  | 83.97 |
| 9     | 31.45 | 167.43  | 10.18 | 76.90 |
| (all) | 42.13 | 185.93  | 9.96  | 77.88 |
```

6 convert

`Sweave` process creates a `yourdocument.txt` file from `yourdocument.Rnw`.

```
Sweave("youdocument.Rnw", RweaveXxx)
```

You can convert it to html format with the following command:

```
asciidoc yourdocument.txt
or
txt2tags -t html yourdocument.t2t
```

or to xhtml, docbook, man, tex...

For example, you can see the source of this documentation, the file generated by Sweave, the same file in docbook format, the same file converted to pdf with dblatex, and the same file converted to odt with docbook2odf.

7 more informations

- asciidoc: http://www.methods.co.nz/asciidoc
- txt2tags: http://txt2tags.sourceforge.net

8 ascii for real

- Derek H. Ogle has written some vignettes for the book 'Analysis and Interpretation of Freshwater Fisheries Data' using ascii.