

# **ascii**

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**ascii**  
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`ascii` is a R package for writing `asciidoc`, `txt2tags`, `sphinx` or `org` documents with embedded R code.

## 1 news

### 1.1 2009/10/24

- small bug fix

### 1.2 2009/10/24

- version 0.3
- `list.type` can be "label"
- `ascii.simple.list` method
- `rownames` and `colnames` arguments
- `cgroup` for `txt2tags` output
- improve col alignment in `txt2tags` output
- `sphinx` driver and output
- `org` driver and output
- improve row and col span (`cgroup` and `rgroup`)
- remove `SweaveAscii()` function
- `Asciidoc()`, `T2t()`, `Sphinx()` and `Org()` (wrapper for `Sweave("file.Rnw", RweaveXx-x)`)

### 1.3 2009/07/16

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

### 1.4 2009/05/11

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

### 1.5 2009/04/27

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

## 1.6 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 :

**Table 1** A simple matrix

1.00	3.00
2.00	4.00

## 3 what ascii provides

ascii provided :

- a generic method for common R objects: `ascii()`. Default argument depends of R object,
- several Sweave drivers: `RweaveAsciidoc()`, `RweaveT2t()`, `RweaveSphinx()` and `RweaveOrg()`.
- some simple wrappers for Sweave ("yourfile.Rnw", `RweaveXxx`) named `Asciidoc()`, `T2t()`, `Sphinx()` and `Org()`.

## 4 features/options

See `?ascii` for a complete description of all arguments.

	asciidoc	txt2tags	sphinx	org
<b>Arguments</b>				
include.rownames	yes	yes	yes	yes
include.colnames	yes	yes	yes	yes
rownames	yes	yes	yes	yes
colnames	yes	yes	yes	yes
format	yes	yes	yes	yes
digits	yes	yes	yes	yes
decimal.mark	yes	yes	yes	yes
na.print	yes	yes	yes	yes

	<b>asciidoc</b>	<b>txt2tags</b>	<b>sphinx</b>	<b>org</b>
caption	yes	yes	yes	yes
caption.level	yes	yes	yes	yes
width	yes	no	no	no
frame	yes	yes (all or none)	no	no
grid	yes	no	no	no
valign	yes	no	no	no
header	yes	yes	yes	yes
footer	yes	yes	no	no
align	yes	yes	no	no
col.width	yes	no	no	no
style	yes	yes	yes	yes
cgroup	yes	yes	yes	no
n.cgroup	yes	yes	yes	no
calign	yes	yes	no	no
cvalign	yes	no	no	no
cstyle	yes	yes	yes	no
rgroup	yes	no	yes	no
n.rgroup	yes	no	yes	no
ralign	yes	no	no	no
rvalign	yes	no	no	no
rstyle	yes	no	yes	no
list.type	yes	yes	yes	yes
condense	yes	yes	yes	yes
<b>Output</b>				
html	yes	yes	yes	yes
docbook	yes	yes	no	yes
latex	yes (experimental)	yes	yes (col and row spans not implemented yet)	yes
<b>Feature</b>				
syntax color	yes (but not for R...)	no	yes	yes

---

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

**Table 2** VADeaths

	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

## 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

Table 3 iris

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

```

> 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", ralign = "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
| 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

```

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

Treatment	subject	potato	buttery	grassy	rancid	painty
Treatment: 1	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
	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::
  9.2
year::
  2009
month::
  08
day::
  24
svn rev::
  49384
language::
  R
version.string::
  R version 2.9.2 (2009-08-24)
```

**platform** i486-pc-linux-gnu

**arch** i486

**os** linux-gnu

**system** i486, linux-gnu

**status, major** 2

**minor** 9.2

**year** 2009

**month** 08

**day** 24

**svn rev** 49384

**language** R

**version.string** R version 2.9.2 (2009-08-24)

## 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      |
|=====

```

Table 4 glm.D93

	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 5 anova 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

## 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

**nccontrols : 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

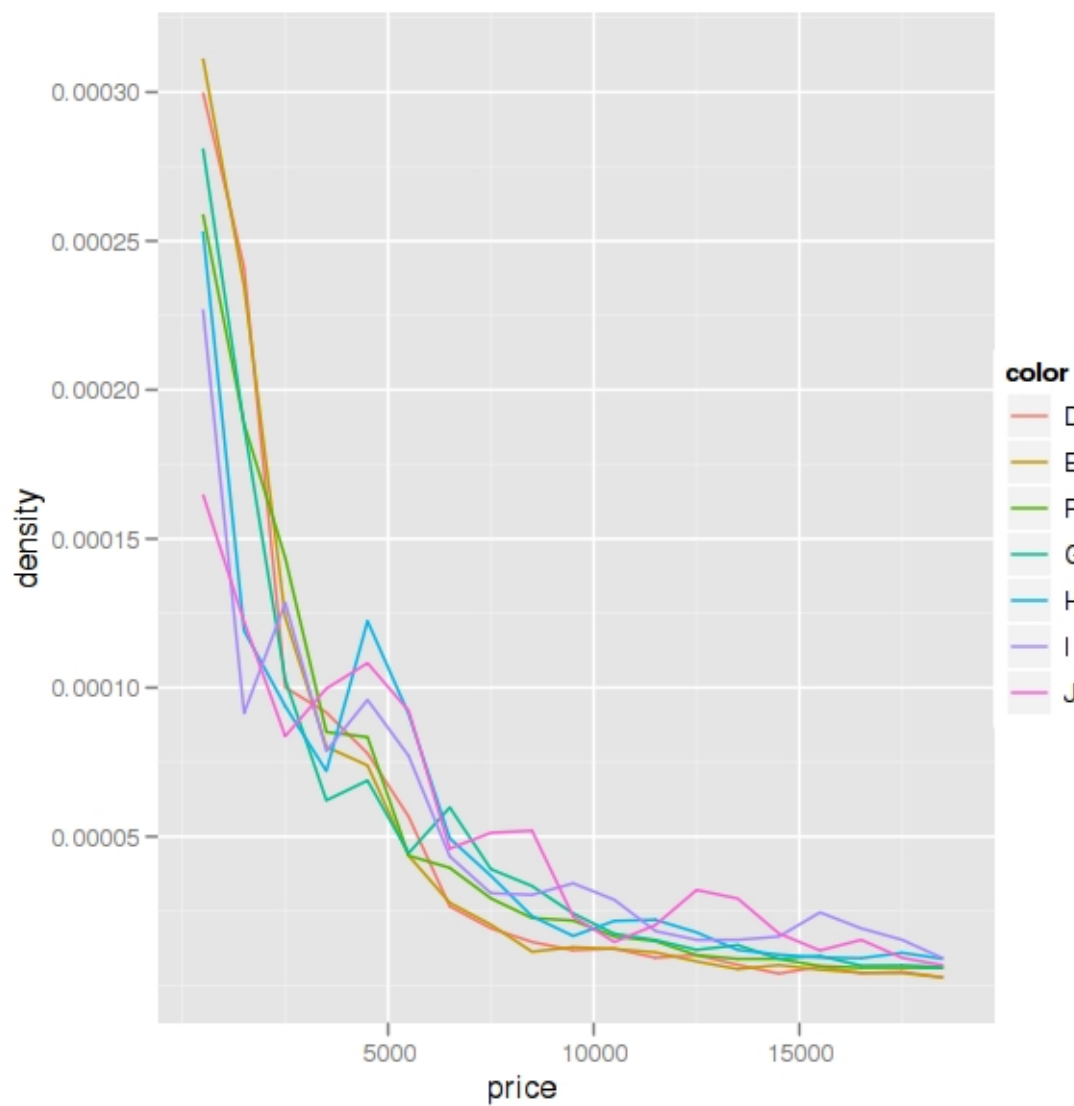
**age : Age [Years]**

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 other outputs

```
> 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 |
> print(ascii(res), "sphinx")
+-----+-----+-----+-----+-----+
| 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 |
+-----+-----+-----+-----+-----+
> print(ascii(res), "org")
|-----+-----+-----+-----+-----+
| 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 |
|-----+-----+-----+-----+-----+
```

Follow those links to see real examples:

- [with text2tags](#)
- [with sphinx](#)
- [with org](#)

## 6 convert

Sweave **process** creates a `yourdocument.xxx` file from `yourdocument.Rnw`.

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

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

```
asciidoc yourdocument.txt
or
txt2tags -t html yourdocument.t2t
or
sphinx-build -b html . yourdocument # need a conf.py file
or
Alt-X org-export-as-html
```

or to other formats...

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>
- sphinx: <http://sphinx.pocoo.org/>
- org-mode: <http://orgmode.org/>

There is another way to create org documents with embedded R code : [org-babel](#). Thanks to [Erik Iverson](#) for informing me about org-mode and org-babel.

## 8 ascii for real

- Derek H. Ogle has written [some vignettes](#) for the book 'Analysis and Interpretation of Freshwater Fisheries Data' using [ascii](#).
- [This blog](#) uses [ascii](#) and [blogpost](#) to generate and publish post.
- [This blog](#) too but with [another method](#).