ascii

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ascii
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ascii is a R package for writing asciidoc, txt2tags, sphinx or org documents with embeded R commands.

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 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:[]`)

1.4 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: `Sweave("yourfile.Rnw", RweaveAsciidoc())`,`Sweave("yourfile.Rnw", RweaveT2t())`,`Sweave("yourfile.Rnw", RweaveSphinx())` and `Sweave("yourfile.Rnw", RweaveOrg())`.

- some simple wrappers for `Sweave()` named `Asciidoc()`,`T2t()`,`Sphinx()` and `Org()`.

4 features/options

See `?ascii` for the description of all arguments.

	asciidoc	txt2tags	sphinx	org
Arguments				
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

	asciidoc	**txt2tags**	**sphinx**	**org**
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
Output				
html	yes	yes	yes	yes
docbook	yes	yes	no	yes
latex	yes (experimental)	yes	yes (col and row spans not implemented yet)	yes
Feature				
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

```
> library(reshape)
> ff_d <- melt(french_fries, id = 1:4, na.rm = TRUE)
```

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

```
> 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
| 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

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)
```
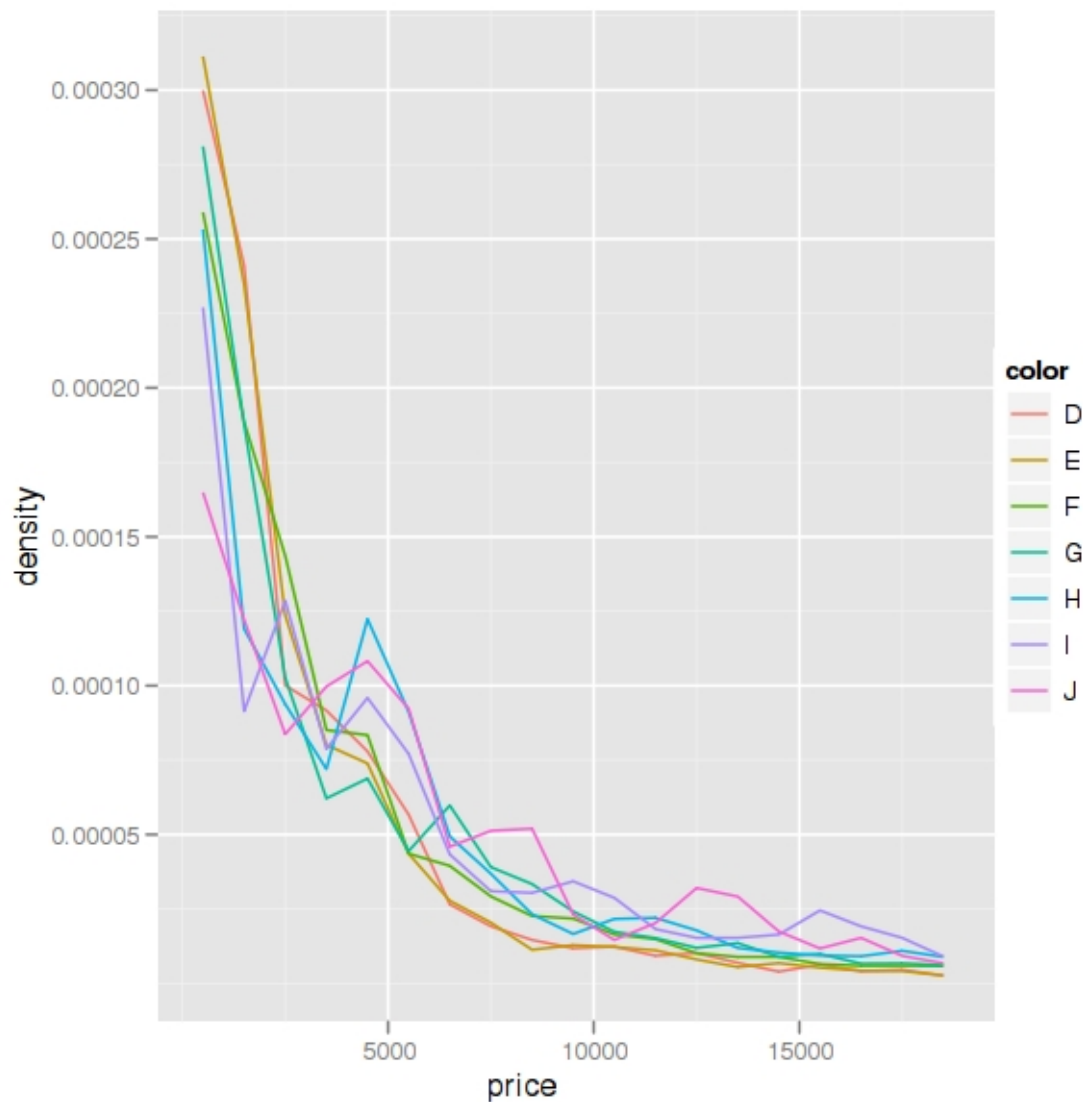

5.10   other outputs

```
> 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 |
|-------+-------+---------+-------+-------+
```

6   convert

`Sweave` process creates a `yourdocument.xxx` 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
sphinx-build -b html . youdocument # 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/

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.