# ascii

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**ascii** by David Hajage LIST OF TABLES CONTENTS

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ascii is a R package for writing asciidoc, txt2tags, reStructuredText, org or textile documents with embeded R code.

#### 1 news

#### 1.1 2010/04/20

- main functions rewritten: it should be easier to add new markup
- add dimnames in ascii.table()
- style, align and valign accept matrix
- t/b/l/rgroup accept several groups (in a list)
- header and footer accept an integer (number of lines for the header)
- t/b/l/rstyle can be "h" (for "header")
- caption, caption.level, align, valign, style, frame, grid have NULL default value

## 1.2 2010/02/05

- textile support
- fix a bug in asciidoc labeled list, when labels begin with a number
- fix bug with RweaveDrivers when split = TRUE

## 1.3 2009/11/25

- fix several bugs in ascii.freqtable and ascii.meanscomp
- fix several bugs in asciidoc table header

#### 1.4 2009/11/24

- version 0.4
- remove extra \n when there is no R output
- change the name of Sphinx related functions to ReST
- add methods for freq(), compmeans() and CrossTable() in package descr
- remove cgroup and rgroup arguments in ascii() function
- four new arguments: tgroup (top), bgroup (bottom), lgroup (left) and rgroup (right)
- new arguments escape and list.escape in print.ascii() function

#### 1.5 2009/10/28

- "results=ascii" for all drivers
- method for ftable objects
- method for packageDescription objects
- method for sessionInfo objects
- fix warning with asciidoc list output

1 NEWS 1.6 2009/10/24

#### 1.6 2009/10/24

small bug fix

#### 1.7 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))

#### 1.8 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: [])

## 1.9 2009/05/11

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

### 1.10 2009/04/27

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

### 1.11 2009/04/08

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

## 2 short example

Table 1 A simple matrix				
	1.00	3.00		
	2.00	4.00	1	

## 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(), RweaveReST(), RweaveOrg() and RweaveTextile().
- some simple wrappers for Sweave("yourfile.Rnw", RweaveXxx) named Asciidoc(), T-2t(), ReST(), Org() and Textile().

## 4 features/options

See ?ascii for a complete description of all arguments.

	asciidoc	txt2tags	rest	org	
Arguments					
include.rownaı	meyses	yes	yes	yes	
include.colnam	nesyes	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	
caption	yes	yes	yes	yes	
caption.level	yes	yes	yes	yes	
width	yes	no	no	no	
frame	yes	yes (all or	no	no	
		none)			
grid	yes	no	no	no	

	asciidoc	txt2tags	rest	org
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
tgroup	yes	yes	yes	no
n.tgroup	yes	yes	yes	no
talign	yes	yes	no	no
tvalign	yes	no	no	no
tstyle	yes	yes	yes	no
bgroup	yes	no	yes	no
n.bgroup	yes	no	yes	no
balign	yes	no	no	no
bvalign	yes	no	no	no
bstyle	yes	no	yes	no
lgroup	yes	no	yes	no
n.lgroup	yes	no	yes	no
lalign	yes	no	no	no
lvalign	yes	no	no	no
lstyle	yes	no	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 (experi-	yes	yes (col and	yes
	mental)	•	row spans not	•
			implemented	
			yet)	
Feature				
syntax color	yes (but not	no	yes	yes
	for R)			

## 5 ascii examples

ascii provides methods for:

```
> methods(ascii)
 [1] ascii.anova*
                             ascii.aov*
 [3] ascii.aovlist*
                            ascii.cast_df*
 [5] ascii.character*
                            ascii.coxph*
 [7] ascii.CrossTable*
                            ascii.data.frame*
 [9] ascii.default*
                             ascii.density*
[11] ascii.describe*
                            ascii.describe.single*
[13] ascii.factor*
                             ascii.freqtable*
[15] ascii.ftable*
                             ascii.glm*
[17] ascii.htest*
                             ascii.integer*
                             ascii.lm*
[19] ascii.list*
[21] ascii.matrix*
                             ascii.meanscomp*
[23] ascii.numeric*
                              ascii.packageDescription*
[25] ascii.prcomp*
                              ascii.sessionInfo*
[27] ascii.simple.list*
                              ascii.smooth.spline*
[29] ascii.summary.aov*
                              ascii.summary.aovlist*
```

5 ASCII EXAMPLES 5.3 matrix

```
[31] ascii.summary.glm* ascii.summary.lm*
[33] ascii.summary.prcomp* ascii.summary.survfit*
[35] ascii.summary.table* ascii.survdiff*
[37] ascii.survfit* ascii.table*
[39] ascii.ts* ascii.zoo*
```

#### 5.1 sessionInfo

```
> ascii(sessionInfo())
R version::
    R version 2.12.0 (2010-10-15), i686-pc-linux-gnu
locale::
    LC_CTYPE=fr_FR.utf8, LC_NUMERIC=C, LC_TIME=fr_FR.utf8, LC_COLLATE=fr_FR.utf8, \( \to \)
    LC_MONETARY=C, LC_MESSAGES=fr_FR.utf8, LC_PAPER=fr_FR.utf8, LC_NAME=C, \( \to \)
    LC_ADDRESS=C, LC_TELEPHONE=C, LC_MEASUREMENT=fr_FR.utf8, LC_IDENTIFICATION \( \to \)
    =C
attached base packages::
    stats, graphics, grDevices, utils, datasets, methods, base
other attached packages::
    ascii_0.7, proto_0.3-8
loaded via a namespace (and not attached)::
    tools_2.12.0
```

**R version** R version 2.12.0 (2010-10-15), i686-pc-linux-gnu

locale LC\_CTYPE=fr\_FR.utf8, LC\_NUMERIC=C, LC\_TIME=fr\_FR.utf8, LC\_COLLATE=fr\_FR.utf8, LC\_MONETAF LC\_MESSAGES=fr\_FR.utf8, LC\_PAPER=fr\_FR.utf8, LC\_NAME=C, LC\_ADDRESS=C, LC\_TELEPHONE=C, LC\_MEASUREMENT=fr\_FR.utf8, LC\_IDENTIFICATION=C

**attached base packages** stats, graphics, grDevices, utils, datasets, methods, base **other attached packages** ascii\_0.7, proto\_0.3-8

loaded via a namespace (and not attached) tools\_2.12.0

#### 5.2 vector

1.0	00	2.00	3.00	4.00

### 5.3 matrix

5 ASCII EXAMPLES 5.4 data.frame

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				

#### 5.4 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", width="75%"]
^.>h| Sepal.Length ^.>h| Sepal.Width ^.>h| Petal.Length ^.>h| Petal.Width ^.>h| ↔
   Species
^.>| 5.10
                 ^.>| 3.50
                                 ^.>| 1.40
                                                  ^.>| 0.20
                                                                   ^.>| ←
   setosa
                                 ^.>| 1.40
                                                                   ^.>| ←
^.>| 4.90
                 ^.>| 3.00
                                                  ^.>| 0.20
   setosa
^.>| 4.70
                 ^.>| 3.20
                                 ^.>| 1.30
                                                   ^.>| 0.20
                                                                   ^.>| ←
  setosa
                                 ^.>| 1.50
                                                   ^.>| 0.20
^.>| 4.60
                 ^.>| 3.10
                                                                   ^.>| ←
   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
                                 ^.>| 1.50
                                                   ^.>| 0.20
^.>| 5.00
                 ^.>| 3.40
                                                                   ^.>| ←
  setosa
                                 ^.>| 1.40
                                                   ^.>| 0.20
^.>| 4.40
                 ^.>| 2.90
                                                                    ^.>| ←
  setosa
^.>| 4.90
                 ^.>| 3.10
                                 ^.>| 1.50
                                                   ^.>| 0.10
                                                                   ^.>| ←
```

## 5.5 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

52								
15							2.11	3.11
16	•				•			
19	•		•		•			
31	•		•		•	•		
51	•							
	•							
63	51				•	•		
78	52	5.06	•		•	•		
79	63			0.00	6.05	3.85		
86	78	3.62	0.73	0.54	1.50	3.49		
(all)	79	8.06	0.28	0.34	0.57	0.00		
13+^.^h  Treatment: 2   3	86	4.18	1.77	0.81	5.49	4.11		
10	(all)	6.89	1.78	0.65	4.07	2.58		
15	.13+^.^h	Treatment:	2   3	6.74	0.59	0.11	3.14	2.48
16	10	9.99	6.98	0.47	2.15	0.82		
19	15	4.41	1.31	0.34	2.29	2.06		
31	16	6.45	3.37	1.05	3.40	0.46		
51	19	8.64	2.45	1.14	5.41	4.16		
52	31	8.03	0.62	0.16	6.05	5.06		
63	51	9.98	3.79	1.57	4.67	2.25		
78	52	5.51	1.02	1.18	4.22	2.19		
79	63	8.41	0.10	0.01	5.09	4.36		
86	78	3.78	0.29	0.76	1.55	2.73		
(all)	79	7.94	0.69	0.26	1.03	0.00		
(all)	86	3.99	2.06	0.78	1 4.52	2.84		
10	(all)			0.66	3.62			
15	.13+^.^h	Treatment:	3   3	5.29	0.77	0.09	2.86	2.87
16	10	10.03	6.45	0.14	3.11			
19	15	3.96	0.99	0.44	2.55	1 2.37		
19	16	6.86	2.70	1.12	3.20	0.56		
31	19	8.74	1.73	2.07		3.90		
51	31							
52	51							
63	1 52		•					
78	1 63		•		•			
79	78		•		•			
86   3.87   1.63   0.94   4.11   3.03	1 79							
		•	·					
======================================	•							
	======							

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
16	6.50	3.26	0.76	4.12	1.23

**Treatment:** 

7

5 ASCII EXAMPLES 5.6 summary.table

	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
	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
Treatment:	31	8.03	0.62	0.16	6.05	5.06
2	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
	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
Treatment:	31	9.03	0.65	0.17	6.58	5.13
3	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

## 5.6 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

## 5.7 labeled list

```
> ascii(version)
platform::
```

5 ASCII EXAMPLES 5.8 glm

```
i686-pc-linux-gnu
arch::
 i686
os::
  linux-gnu
system::
  i686, linux-gnu
status::
major::
  2
minor::
  12.0
year::
  2010
month::
  10
day::
  15
svn rev::
  53317
language::
  R
version.string::
 R version 2.12.0 (2010-10-15)
```

```
platform i686-pc-linux-gnu
arch i686
os linux-gnu
system i686, linux-gnu
status, major 2
minor 12.0
year 2010
month 10
day 15
svn rev 53317
language R
version.string R version 2.12.0 (2010-10-15)
```

## 5.8 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
```

5 ASCII EXAMPLES 5.9 describe

```
Null Deviance: 10.58
Residual Deviance: 5.129
                   AIC: 56.76
> ascii(glm.D93, caption = "glm.D93")
.glm.D93
|-----
1.1+| h| Estimate h| Std. Error h| z value h| Pr(>|z|)
| (Intercept) | 3.04 | 0.17 | outcome2 | -0.45 | 0.20 | outcome3 | -0.29 | 0.19 | treatment2 | 0.00 | 0.20 | treatment3 | 0.00 | 0.20
                       | 0.00 | 1.00
| 0.00 | 1.00
|-----
> ascii(anova(glm.D93), caption = "anova glm.D93", include.rownames = T)
.anova glm.D93
|-----
```

## 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

### 5.9 describe

5 ASCII EXAMPLES 5.9 describe

```
1.1+| | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+
| Frequency | 15 | 15 | 16 | 16 | 15 | 11 | % | 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
      | 10 | 2.273 | 0.0 | 0.0 | 0.0 | 1.0 | 4.0 | 5.3 | 6.0
|-----
1.1+| | 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
|-----
|-----
1.1+| | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75+
```

#### **ESOPH**

- 6 Variable
- 88 Observations

agegp: Age group

5 ASCII EXAMPLES 5.10 CrossTable

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
Frequer		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

## 5.10 CrossTable

- > library(descr)
- > ascii(CrossTable(warpbreaks\$wool, warpbreaks\$tension, dnn = c("Wool",
- + "Tension")))
- \*Cell Contents\*
- \* N
- \* Expected N
- $\star$  Chi-square contribution
- \* N / Row Total
- \* N / Col Total

5 ASCII EXAMPLES 5.11 plot

```
* N / Table Total
|-----
| 0.333 | 0.333 | 0.333 | 0.500
| 0.500 | 0.500 | 0.500 |
| 0.167 | 0.167 | 0.167 |
.6+^.^s| B | 9 | 9 | 9 | 9.0 | 9.0 |
                     | 9
                           | 27
| 0.000 | 0.000 | 0.000 |
| 0.333 | 0.333 | 0.333 | 0.500
| 0.500 | 0.500 | 0.500 |
| 0.167 | 0.167 | 0.167 |
.2+^.^s| Total | 18 | 18
                        | 18
| 0.333 | 0.333 | 0.333 |
|-----
*Statistics for All Table Factors*
Pearson's Chi-squared test::
  Chi^2 = 0, d.f. = 2, p = 1
```

#### **Cell Contents**

- N
- Expected N
- Chi-square contribution
- N / Row Total
- N / Col Total
- N / Table Total

	L	M	Н	Total
	9	9	9	27
	9.0	9.0	9.0	
A	0.000	0.000	0.000	
A	0.333	0.333	0.333	0.500
	0.500	0.500	0.500	
	0.167	0.167	0.167	
	9	9	9	27
	9.0	9.0	9.0	
В	0.000	0.000	0.000	
В	0.333	0.333	0.333	0.500
	0.500	0.500	0.500	
	0.167	0.167	0.167	
Total	18	18	18	54
iotai	0.333	0.333	0.333	

#### **Statistics for All Table Factors**

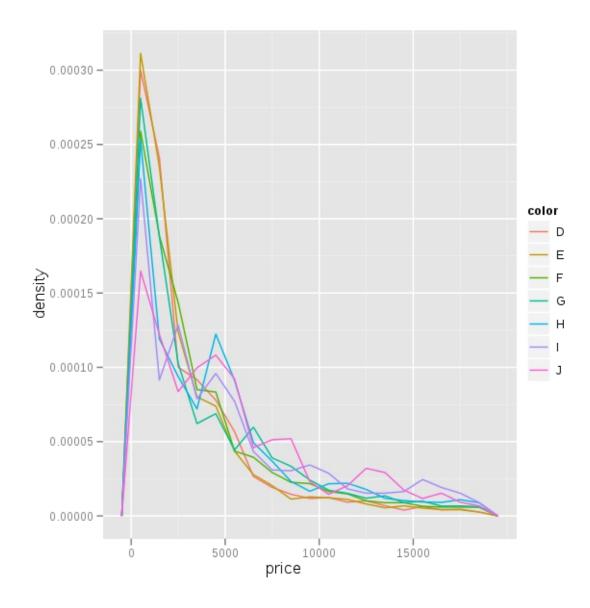
**Pearson's Chi-squared test** Chi $^2$  = 0, d.f. = 2, p = 1

## 5.11 plot

> library(ggplot2)

5 ASCII EXAMPLES 5.12 other outputs

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



## 5.12 other outputs

```
> library(reshape)
> names(airquality) <- tolower(names(airquality))</pre>
> aqm <- melt(airquality, id = c("month", "day"), na.rm = TRUE)</pre>
> res <- cast(aqm, month ~ variable, mean, margins = "grand_row")</pre>
month
         ozone solar.r
                              wind
1 5 23.61538 181.2963 11.622581 65.54839
    6 29.44444 190.1667 10.266667 79.10000
     7 59.11538 216.4839 8.941935 83.90323
     8 59.96154 171.8571 8.793548 83.96774
4
     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
         | 23.62 | 181.30 | 11.62 | 65.55
| 29.44 | 190.17 | 10.27 | 79.10
| 1 | 5
```

```
| 4 | 8 | 59.96 | 171.86 | 8.79 | 83.97
         | 31.45 | 167.43 | 10.18 | 76.90
| 5 | 9
| 6 | (all) | 42.13 | 185.93 | 9.96 | 77.88
> print(ascii(res), "rest")
  | month | ozone | solar.r | wind | temp |
+==+====++====++=====++=====+
| 1 | 5
         | 23.62 | 181.30 | 11.62 | 65.55 |
| 2 | 6 | 29.44 | 190.17 | 10.27 | 79.10 |
     ----+----
         | 59.12 | 216.48 | 8.94 | 83.90 |
| 3 | 7
| 4 | 8 | 59.96 | 171.86 | 8.79 | 83.97 |
| 5 | 9 | 31.45 | 167.43 | 10.18 | 76.90 |
| 6 | (all) | 42.13 | 185.93 | 9.96 | 77.88 |
> print(ascii(res), "org")
 | month | ozone | solar.r | wind | temp |
| 23.62 | 181.30 | 11.62 | 65.55 |
| 1 | 5
| 2 | 6
         | 29.44 | 190.17 | 10.27 | 79.10
| 3 | 7
         | 59.12 | 216.48 | 8.94 | 83.90

      4 | 8
      | 59.96 | 171.86 | 8.79 | 83.97

      5 | 9
      | 31.45 | 167.43 | 10.18 | 76.90

| 6 | (all) | 42.13 | 185.93 | 9.96 | 77.88
```

#### Follow those links to see real examples:

- with text2tags
- with reStructuredText
- with org

## 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
rst2html-highlight --stylesheet-path=pygments-default.css -s rest.rst rest.html
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, and the same file converted to pdf with dblatex.

## 7 more informations

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

docutils and reStructuredText http://docutils.sourceforge.net/

org-mode http://orgmode.org/

textile http://textile.thresholdstate.com/

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.