r2asciidoc

David Hajage

dhajage[at]gmail[dot]com

r2asciidoc (http://eusebe.github.com/r2asciidoc) is a R package for writing document with embeded R commands.

1. Short example

As you can see, r2asciidoc is simple.

Table 1. A simple matrix

1.00	3.00
2.00	4.00

2. What r2asciidoc provides

r2asciidoc provided:

- a Sweave driver: Sweave ("yourfile.Rnw", RweaveAscii()) to use it
- a generic method for common R objects: ascii(). Default argument depends of R object.

x R object

include rownames ? (logical)

include.rownames

include colnames ? (logical)

include.colnames

format equal to "d" (for integers), "f", "e", "E", "g", "G", "fg" (for reals). Default is

"f". "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 the minimum

number of significant digits.

digits the desired number of digits after the decimal point.

the character to be used to indicate the numeric decimal point.

decimal.mark

na.print the character to be used for NA

caption the title (character)

width the desired width of the table

frame defines the table border. Can take the following values: "tobpot" (top and bottom),

"all" (all sides), "none" and "sides" (left and right). Default is "all".

grid defines which ruller lines are drawn between table rows and columns. Can take

"none", "cols", "rows" and "all". Default is "all".

valign vertically align all cells in a table. Can take "top", "bottom" and "middle".

header emphase the first line of a table (logical).
footer emphase the last line of a table (logical).

align column alignment. Can be "r" (right), "l" (left) or "c" (center).

col.width columns width (integer proportional value).

style columns styles. Equal to "d" (default), "e" (emphasis), "m" (monospaced), "s"

(strong), "a" (cells cans contain any of the AsciiDoc elements that are allowed inside

document), "1" (literal), "v" (verse; all line breaks are retained).

3. Gallery

3.1. Vector

1	1.00	2.00	2.00	4.00
	1.00	2.00	3.00	4.00

3.2. Matrix

```
> ascii(VADeaths, include.rownames = T, include.colnames = T, caption = "VADeaths",
   header = T, width = 50, valign = "middle", align = "lrrrr",
     frame = "topbot", grid = "none")
.VADeaths
[frame="topbot", grid="none", valign="middle", options="header", cols="<,>,>,>,", width="50%"]
|-----
    |Rural Male|Rural Female|Urban Male|Urban Female
|50-54|11.70 |8.70
                      |15.40
                                  18.40
             |11.70
                        124.30
|55-59|18.10
                                   |13.60
             120.30
                        |37.00
|60-64|26.90
                                  |19.30
|65-69|41.00
             |30.90
                         |54.60
            |54.30
|70-74|66.00
                         |71.10
                                  150.00
```

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

|-----

3.3. Data Frame

```
> ascii(iris[1:10, ], include.rownames = F, caption = "iris", width = 50,
+ align = "c", valign = "bottom")
.iris
[valign="bottom", options="header", cols="^,^,^,^,^,", width="50%"]
```

Sepal.Ler	ngth Sepal.Wi	dth Petal.Le	ngth Petal.Wi	dth Species
5.10	13.50	11.40	10.20	setosa
4.90	13.00	11.40	10.20	setosa
4.70	13.20	11.30	0.20	setosa
4.60	3.10	11.50	0.20	setosa
5.00	13.60	11.40	0.20	setosa
5.40	13.90	11.70	0.40	setosa
4.60	13.40	11.40	10.30	setosa
5.00	13.40	11.50	10.20	setosa
4.40	12.90	11.40	10.20	setosa
4.90	3.10	11.50	0.10	setosa
=======				

Table 3. iris

Sepal.Le	e Sog+p hal.W	i ₽⊎ tal.Le	n igėt ral.Wi	d 5 pecies
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

3.4. 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

3.5. 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)</pre>
> glm.D93 <- glm(counts ~ outcome + treatment, family = poisson())</pre>
> glm.D93
Call: glm(formula = counts ~ outcome + treatment, family = poisson())
Coefficients:
                      outcome3 treatment2 treatment3
(Intercept)
           outcome2
 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
               10.58
Null Deviance:
Residual Deviance: 5.129
                        AIC: 56.76
> ascii(glm.D93, caption = "glm.D93")
.qlm.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
                         10.00
                                11.00
|-----
> ascii(summary(glm.D93), caption = "summary glm.D93")
.summary qlm.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. summary 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 6. 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

3.6. Survdiff

Table 7. survdiff.aml

	N	Observed	Expected	(O-E)^2/E	(O-E)^2/V	df	р

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	N	Observed	Expected	(O-E)^2/E	(O-E)^2/V	df	р
x=Maintaine	ed 1	7	10.69	1.27	3.40	1	6.53393E- 02
x=Nonmaint	tali Bed	11	7.31	1.86	3.40		