

# pander: A Pandoc writer in R

## Transforming R objects to Pandoc's markdown

Gergely Daróczi  
`daroczig@rapporter.net`

Founder of Easystats Ltd, UK | Assitant lecturer at PPKE, HU | PhD candidate at BCE, HU

5 July 2013



# What does “pander” do inside of “rapport”?

Pandoc.brew: tool for literate programming that stores R objects, transforms to markdown

```
# A quick analysis on mtcars
```

```
<% for (v in names(mtcars)) { %>
```

The mean of `<%= v %>` is `<%= mean(mtcars[, v]) %>` and the standard deviation is `<%= sd(mtcars[, v]) %>`. Let us also check the frequency table:

```
<%= table(mtcars[, v]) %>
```

```
## Tables are boring!
```

```
<%=
```

```
set.caption(paste('Histogram of', v))
```

```
hist(mtcars[, v], xlab = v, col = sample(colors(), 1), main = '')  
%>
```

```
<% } %>
```

# What does “pander” do inside of “rapport”?

Pandoc.brew: markdown results

```
> Pandoc.brew('demo.txt')  
# A quick analysis on mtcars
```

The mean of am is `_0.4062_` and the standard deviation is `_0.499_`. Let us also check the frequency table:

```
-----  
  0    1  
--- ---  
19   13  
-----
```

```
## Tables are boring!
```

```
![Histogram of am] (/tmp/RtmphL0K2Q/plots/f2457fb575.png)
```

```
The mean of mpg is _20.09_ and the standard  
deviation is _6.027_. Let us also check the
```

# What does “pander” do inside of “rapport”?

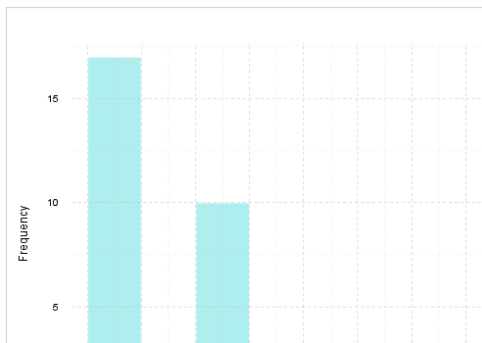
Pandoc.brew: converted results

```
> Pandoc.brew('demo.txt', output = tempfile(), convert = 'html')
```

The mean of carb is 2.812 and the standard deviation is 1.615. Let us also check the frequency table:

1	2	3	4	6	8
7	10	3	10	1	1

**Tables are boring!**



# What does “pander” do inside of “rapport”?

Pandoc.brew: converted results

```
> Pandoc.brew('demo.txt', output = tempfile(), convert = 'docx')
```

## A quick analysis on mtcars

The mean of mpg is 20.09 and the standard deviation is 6.027. Let us also check the frequency table:

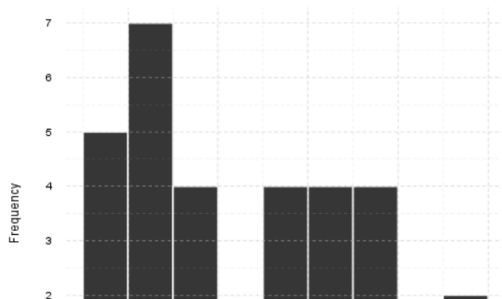
10.4	13.3	14.3	14.7	15	15.2	15.5	15.8
------	------	------	------	----	------	------	------

2	1	1	1	1	2	1	1
---	---	---	---	---	---	---	---

*Table continues below*

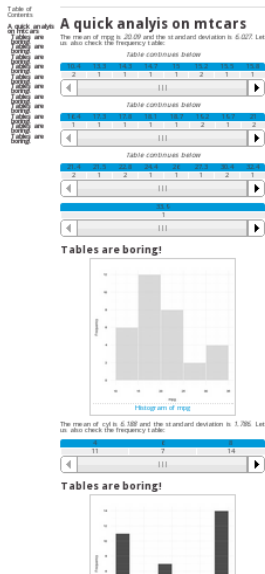
16.4	17.3	17.8	18.1	18.7	19.2	19.7	21
------	------	------	------	------	------	------	----

1	1	1	1	1	2	1	2
---	---	---	---	---	---	---	---



# What does “pander” do inside of “rapport”?

Pandoc.brew: raw results



```
> str(Pandoc.brew('demo.txt'))
```

List of 68

\$ :List of 5

..\$ type : chr "heading"

..\$ text :List of 2

.. ..\$ raw : chr "A quick analysis on mtcars"

.. ..\$ eval: chr "A quick analysis on mtcars"

..\$ chunks:List of 2

.. ..\$ raw : NULL

.. ..\$ eval: NULL

..\$ msg :List of 3

.. ..\$ messages: NULL

.. ..\$ warnings: NULL

.. ..\$ errors : NULL

..\$ level : int 1

\$ :List of 2

..\$ type : chr "block"

..\$ robject:List of 6

.. ..\$ src : chr "table(mtcars[, v])"