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Minimal example for Pandoc.brew

# Introduction

We have two meta-information above:

* author
* title

A third field could be there too: date. For details, please check out [Pandoc's homepage](http://johnmacfarlane.net/pandoc/README.html#title-block) or just use pandoc.title function of this package.

As you can see writing and formatting paragraphs cannot be easier :)

But what about [R](http://www.r-project.org/)? Let us return pi: *3.142*

# R objects

Pander.brew would transform any returned R object to Pandoc's markdown in each code block.

For example mtcars's first 5 cases look like:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | mpg | cyl | disp | hp | drat | wt | qsec | vs | am |
| **Mazda RX4** | 21.0 | 6 | 160 | 110 | 3.90 | 2.620 | 16.46 | 0 | 1 |
| **Mazda RX4 Wag** | 21.0 | 6 | 160 | 110 | 3.90 | 2.875 | 17.02 | 0 | 1 |
| **Datsun 710** | 22.8 | 4 | 108 | 93 | 3.85 | 2.320 | 18.61 | 1 | 1 |
| **Hornet 4 Drive** | 21.4 | 6 | 258 | 110 | 3.08 | 3.215 | 19.44 | 1 | 0 |
| **Hornet Sportabout** | 18.7 | 8 | 360 | 175 | 3.15 | 3.440 | 17.02 | 0 | 0 |

Table continues below

|  |  |  |
| --- | --- | --- |
|  | gear | carb |
| **Mazda RX4** | 4 | 4 |
| **Mazda RX4 Wag** | 4 | 4 |
| **Datsun 710** | 4 | 1 |
| **Hornet 4 Drive** | 3 | 1 |
| **Hornet Sportabout** | 3 | 2 |

As you can see some formatting was added to the returned table and was also split up as the original table would have been too wide to fit on the screen (any panderer still using a VT100 terminal?) or standard paper. If you do not like that split up, just set the according [panderOption](http://rapporter.github.com/pander/#pander-options)!

We could try other R objects too, for example let us check chisq.test on some variables of mtcars:

|  |  |  |
| --- | --- | --- |
| Test statistic | df | P value |
| 20.94 | 2 | \* \* \* |

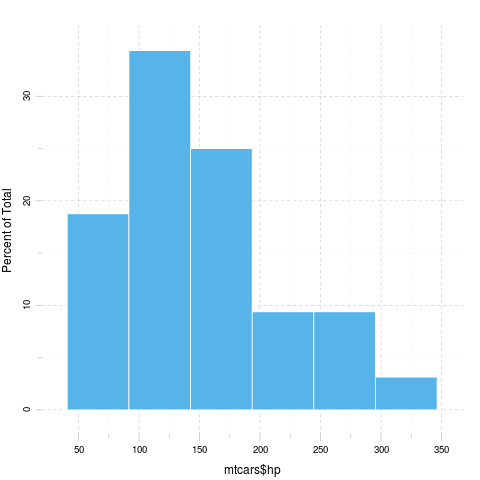
Pearson's Chi-squared test: mtcars$am and mtcars$gear

**WARNING**[[1]](#footnote-26)

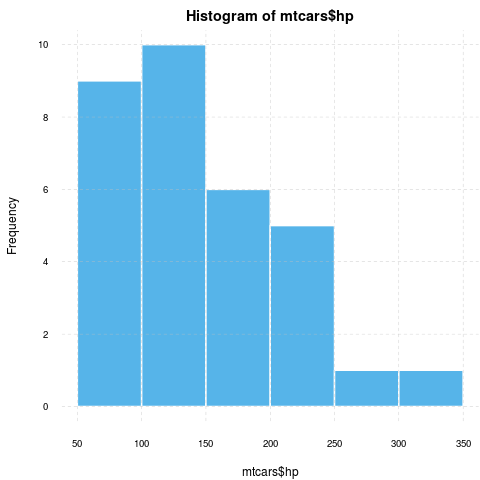
And we got a warning above!

## Returning plot

Plots are automatically grabbed between brew tags and some custom formatting applied (if evalsOptions('graph.unify') is set to TRUE):

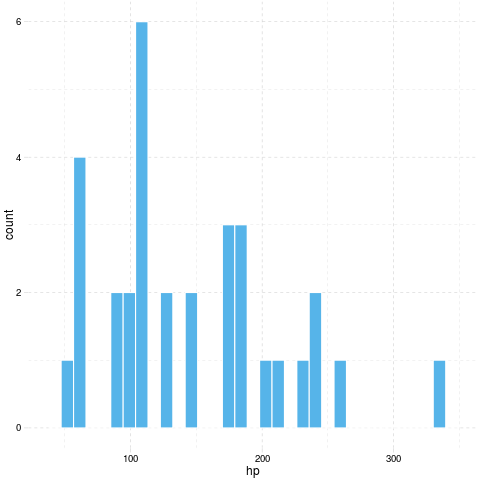


The above lattice looks (IMHO) pretty cool, but what about using base plot?

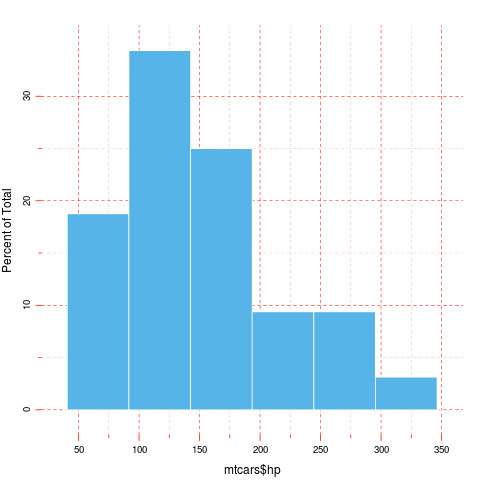
 **WARNING**[[2]](#footnote-30)

This should be quite similar by my intention :)

What about ggplot2?



And adding a caption is easy with even some modified panderOptions:



This is a caption, right?

# Captions

Just like with tables:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Murder | Assault | UrbanPop | Rape |
| **Alabama** | 13.2 | 236 | 58 | 21.2 |
| **Alaska** | 10.0 | 263 | 48 | 44.5 |

Here goes the first two lines of USArrests

# Multiple results

And the chunks can result in multiple R objects of course:

* *1*, *2*, *3*, *4* and *5*
* *3.142*
* *110*, *110*, *93*, *110*, *175*, *105*, *245*, *62*, *95*, *123*, *123*, *180*, *180*, *180*, *205*, *215*, *230*, *66*, *52*, *65*, *97*, *150*, *150*, *245*, *175*, *66*, *91*, *113*, *264*, *175*, *335* and *109*

# It happens

**ERROR**[[3]](#footnote-36)

1. Chi-squared approximation may be incorrect [↑](#footnote-ref-26)
2. Applying default formatting to image is somehow compromised (the result could differ from what you specified in panderOptions). Hints: printing lattice/ggplot2 is not needed and tweaking base plots with par might have some side-effects! [↑](#footnote-ref-30)
3. object 'unknown.R.object' not found [↑](#footnote-ref-36)