Docs4 R Markdown Demos: Plot PDF ...

generate with

```
This renders but des not run r codes:

R -e rmarkdown::render"('Docs4+MD+R.md',output_file='test.html')"

R -e rmarkdown::render"('Docs4+MD+R.md',output_file='test.pdf')"

This runs r codes and show iages:

Rscript -e "library(knitr); knit('Docs4+MD+R.md')"

pandoc Docs4+MD+R.txt -t html5 -o test.pdf

others

Rscript -e "library(knitr); knit('./Docs4+MD+R+book.Rnw')"

#pdflatex Docs4+MS+R.tex

run

R CMD Sweave --pdf Docs4+MD+R+book.Rnw
```

doc4 R demo

```
you might need in linux R to clean the environment:
sudo apt-get -u dist-upgrade
4*222
## [1] 888
another
my.dir <- getwd()</pre>
list.files(my.dir, recursive= TRUE)
## [1] "Docs1+MD+Bib.bib"
                                "Docs1+MD+Bib.md"
                                                         "Docs2+Tex.aux"
## [4] "Docs2+Tex.log"
                                "Docs2+Tex.pdf"
                                                         "Docs2+Tex.tex"
                                "Docs3+MD+utf.utf8.tex" "Docs4+MD+R+book.Rnw"
## [7] "Docs3+MD+utf.md"
## [10] "Docs4+MD+R+book.tex"
                                "Docs4+MD+R.md"
                                                         "Docs4+MD+R.txt"
```

```
## [13] "Docs4+MS+R.tex"
                                  "Docs5+Refs.md"
                                                            "Docs6+FigSec.md"
## [16] "Docs6+makefile"
                                  "Docs6+meta.yml"
                                                            "Docs6+tplt.tex"
## [19] "figure/Docs2-img.eps"
                                  "figure/nice-fig-1.png" "ieee.csl"
## [22] "k.pdf"
                                  "mycontext.tex"
                                                            "mytemplate.tex"
## [25] "test.pdf"
strsplit('hello world', ' ')
## [[1]]
## [1] "hello" "world"
In R also installing the dependencies 'stringi', 'stringr' 'digest', 'rlang' htmltools
with rmd vs. rnw sudo apt-get install software-properties-common apt install
-no-install-recommends software-properties-common dirmngr
sudo add-apt-repository ppa:ubuntu-toolchain-r/test
https://www.tuxamito.com/wiki/index.php/Installing_newer_GCC_versions_in_Ubuntu
sudo apt-get install libfontconfig1-dev gcc-8 g++-8
sudo update-alternatives --remove-all gcc
sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-8 90 --slave /usr/bin/g++ {
                          && sudo R -e 'install.packages("stringi");'
sudo ulimit -s 16384
conda install -c conda-forge r-bookdown
remember some R versioning issues on R 3.2 cannot run, after R4 then in-
stall.packages("rmarkdown", dep = TRUE) rmarkdown::pandoc_version() nor
knitr::write\_bib(x=c("knitr",\,"rmarkdown")\;,\,file="test.bib")
with bash
echo $PATH
```

/home/j/bin:/home/j/.local/bin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/sbin:/usr/local/texlive/2020/bin/x86_64-linux:/bin:/s

Vars

	-variable	-metadata	YAML metadata and –metadata-file
values can be	strings and bools	strings and bools	also YAML objects and lists
strings are	inserted verbatim	escaped	interpreted as markdown
accessible by filters:	no	yes	yes

Figures and tables with captions will be placed in figure and table environments, respectively.

```
par(mar = c(4, 4, .1, .1))
plot(pressure, type = 'b', pch = 19)
refs see Figure @ref(fig:nice-fig).
can write citations, too. For example, we are using the bookdown package
[@R-bookdown] using R Markdown and knitr
```

Others

```
## Error in library(ggplot2): there is no package called 'ggplot2'
## Warning in download.file(url = "https://ndownloader.figshare.com/files/
## 7010681", : URL 'https://ndownloader.figshare.com/files/7010681': status was
## 'Couldn't resolve host name'
## Error in download.file(url = "https://ndownloader.figshare.com/files/7010681", : cannot of
## Warning in file(file, "rt"): cannot open file 'data': No such file or directory
## Error in file(file, "rt"): cannot open the connection
##
        Mobile
                    Juneau
                               Phoenix Little Rock Los Angeles Sacramento
                                              48.5
                                                          14.0
##
          67.0
                      54.7
                                   7.0
                                                                       17.2
## Error in precip$DATE: $ operator is invalid for atomic vectors
## Error in qplot(x = precip$DATE, y = precip$PRECIP): could not find function "qplot"
and
download.file(url = "https://octodex.github.com/images/bannekat.png",
          destfile = "image.png",
          mode = 'wb')
## Warning in download.file(url = "https://octodex.github.com/images/
## bannekat.png", : URL 'https://octodex.github.com/images/bannekat.png': status
## was 'Couldn't resolve host name'
## Error in download.file(url = "https://octodex.github.com/images/bannekat.png", : cannot o
knitr::include_graphics(path = "figure/Docs2-img.eps") #image.png")
```