

Save Text to File, Read Text from File, Replace Text in File

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0.0.1 Text to File

Go to the [RMD](#), [R](#), [PDF](#), or [HTML](#) version of this file. Go back to [fan's REconTools Package](#), [R Code Examples Repository \(bookdown site\)](#), or [Intro Stats with R Repository \(bookdown site\)](#).

Latex Table to File Tabular outputs, text outputs, etc are saved as variables, which could be printed in console. They can also be saved to file for future re-used. For example, latex outputs need to be saved to file.

```
# Load Data
dt <- mtcars[1:5, 1:6]
# Generate latex string variable
st_out_tex <- kable(dt, "latex")
print(st_out_tex)
# File out
# fileConn <- file("../_file/tex/tex_sample_a_tab.tex")
fileConn <- file("_file/tex/tex_sample_a_tab.tex")
writeLines(st_out_tex, fileConn)
close(fileConn)
```

```
st_file <- "\\documentclass[12pt,english]{article}
\\usepackage[bottom]{footmisc}
\\usepackage[urlcolor=blue]{hyperref}
\\begin{document}
\\title{A Latex Testing File}
\\author{\\href{http://fanwangecon.github.io/}{Fan Wang} \\thanks{See information \\href{https://fanwan
\\maketitle
Ipsum information dolor sit amet, consectetur adipiscing elit. Integer Latex placerat nunc orci.
\\paragraph{\\href{https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3140132}{Data}}
Village closure information is taken from a village head survey.\\footnote{Generally students went to s
output:
pdf_document:
  pandoc_args: '../_output_kniti_pdf.yaml'
  includes:
    in_header: '../_preamble.tex'
html_document:
  pandoc_args: '../_output_kniti_html.yaml'
  includes:
    in_header: '../_hdga.html'
```

```
\\end{document}]"
```

```
print(st_file)
```

Create a Text File from Strings

```
## [1] "\\documentclass[12pt,english]{article}\\n\\usepackage[bottom]{footmisc}\\n\\usepackage[urlcolor=blue]{hyperref}\\n\\begin{document}\\n\\title{A Latex Testing File}\\n\\author{\\href{http://fanwangecon.github.io/}{Fan Wang} \\thanks{See information \\href{https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3140132}{Data}}}\\n\\maketitle\\n\\text{Ipsum information dolor sit amet, consectetur adipiscing elit. Integer Latex placerat nunc orci.}\\n\\paragraph{\\href{https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3140132}{Data}}\\n\\text{Village closure information is taken from a village head survey.}\\n\\footnote{Generally students v}\\n\\end{document}]"

fl_test_tex <- "_file/tex/test_fan.tex"
fileConn <- file(fl_test_tex)
writeLines(st_file, fileConn)
close(fileConn)
```

Open A File and Read Lines Open and Replace Text in File:

```
fileConn <- file(fl_test_tex, "r")
st_file_read <- readLines(fileConn)
print(st_file_read)
```

```
## [1] "\\documentclass[12pt,english]{article}"
## [2] "\\usepackage[bottom]{footmisc}"
## [3] "\\usepackage[urlcolor=blue]{hyperref}"
## [4] "\\begin{document}"
## [5] "\\title{A Latex Testing File}"
## [6] "\\author{\\href{http://fanwangecon.github.io/}{Fan Wang} \\thanks{See information \\href{https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3140132}{Data}}}"
## [7] "\\maketitle"
## [8] "Ipsum information dolor sit amet, consectetur adipiscing elit. Integer Latex placerat nunc orci."
## [9] "\\paragraph{\\href{https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3140132}{Data}}}"
## [10] "Village closure information is taken from a village head survey.\\n\\footnote{Generally students v}"
## [11] "output:"
## [12] "  pdf_document:"
## [13] "    pandoc_args: '..//..//_output_kniti_pdf.yaml'"
## [14] "    includes:"
## [15] "      in_header: '..//..//preamble.tex'"
## [16] "  html_document:"
## [17] "    pandoc_args: '..//..//_output_kniti_html.yaml'"
## [18] "    includes:"
## [19] "      in_header: '..//..//hdga.html'"
## [20] "\\end{document}"
```

```
close(fileConn)
```

Open a File and Replace Some Lines Append additional strings into the file after *html_document* with proper spacings:

```
# Read in Lines from existing file
fileConn <- file(fl_test_tex, "r")
st_file_read <- readLines(fileConn)
close(fileConn)

# Search and Replace String
st_search <- "html_document:"
st_replace <- paste0("html_document:\\r\\n",
                     "  toc: true\\r\\n",
                     "  number_sections: true\\r\\n",
                     "  toc_float: \\r\\n",
```

```

"         collapsed: false\r\n",
"         smooth_scroll: false\r\n",
"         toc_depth: 3")

# Search and Replace
st_file_updated <- gsub(x = st_file_read,
                        pattern = st_search,
                        replacement = st_replace)

# Print
print(st_file_updated)

## [1] "\\documentclass[12pt,english]{article}"
## [2] "\\usepackage[bottom]{footmisc}"
## [3] "\\usepackage[urlcolor=blue]{hyperref}"
## [4] "\\begin{document}"
## [5] "\\title{A Latex Testing File}"
## [6] "\\author{\\href{http://fanwangecon.github.io/}{Fan Wang} \\thanks{See information \\href{https
## [7] "\\maketitle}"
## [8] "Ipsum information dolor sit amet, consectetur adipiscing elit. Integer Latex placerat nunc orci
## [9] "\\paragraph{\\href{https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3140132}{Data}}}"
## [10] "Village closure information is taken from a village head survey.\\footnote{Generally students v
## [11] "output:"
## [12] "  pdf_document:"
## [13] "    pandoc_args: '../.../_output_kniti_pdf.yaml'"
## [14] "    includes:"
## [15] "      in_header: '../.../preamble.tex'"
## [16] "  html_document:\r\n    toc: true\r\n    number_sections: true\r\n    toc_float:\r\n    coll
## [17] "    pandoc_args: '../.../_output_kniti_html.yaml'"
## [18] "    includes:"
## [19] "      in_header: '../.../hdga.html'"
## [20] "\\end{document}"

# Save Updated File
fl_srcrep_tex <- "_file/tex/test_fan_search_replace.tex"
fileConn_sr <- file(fl_srcrep_tex)
writeLines(st_file_updated, fileConn_sr)
close(fileConn_sr)

```