

# Using sjPlot::tab\_model() in a Rmd document

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sjPlot::tab\_model() is wonderful to create beautiful tables for your statistical analysis but, afaik, it is not possible to easily save the output html tables as tex or pdf documents, or include them in Rmd documents.

In the html2latex repo there are two functions to help you simplify the process.

## tab\_model() html tables to tex and pdf

Using html2pdf() with an html table will create a tex file. The build\_pdf parameter builds a pdf using that tex file.

```
library(lme4)
library(sjPlot)

# This is a terrible model
model = lmer(mpg ~ cyl * disp + (1|vs), mtcars)

# We save the sjPlot table to an .html file
table = sjPlot::tab_model(model, file = "temp.html")

# table # Commented out to avoid output

# Load functions
source(here::here("R/html2pdf.R"))
source(here::here("R/tex2Rmd.R"))

# Create tex
html2pdf(filename = "temp.html", page_width = 13, build_pdf = TRUE, silent = TRUE)

# pdf file created in: ../../html2latex/temp.pdf
# tex file created in: ../../html2latex/temp.tex
```

## tab\_model() html tables in a Rmd document

You can include tab\_model() table in a Rmarkdown pdf in three steps:

### 1. YAML header

The YAML header of the .Rmd document must include this:

```
header-includes:
- \usepackage{array}
- \usepackage{longtable}
- \newcommand\textstyleStrongEmphasis[1]{\textbf{#1}}
- \makeatletter
- \newcommand\arrayslash{\let\\\@arraycr}
```

### 2. Extract the table bit from the tex file

The tex file created with html2pdf can be rendered as a pdf by opening the tex file in Rstudio and using the Compile PDF button. But if you want to use the table code (from \begin{longtable} to \end{longtable}), we need to extract it first.

```
# Create table.txt to be able to use it in Rmd documents
tex2Rmd("temp.tex")

# File with table code created in: table.txt
```

### 3. Use this code in the Rmd document.

Finally, you need to insert the latex code below outside of a chunk in your Rmd file.

```
\newcommand{\myinput}[1]{%
  \begingroup%
  \renewcommand\normalsize{\small}% Specify your font modification
  \input{#1}%
  \endgroup%
}
\begin{centering}
\myinput{table.txt}
\end{centering}
```

And the result will look like this:

---

<i>Predictors</i>	<i>Estimates</i>	<b>mpg</b> <i>CI</i>	<i>p</i>
(Intercept)	49.04	39.23 – 58.85	<0.001
cyl	-3.41	-5.05 – -1.76	<0.001
disp	-0.15	-0.22 – -0.07	<0.001
cyl * disp	0.02	0.01 – 0.03	0.001
<b>Random Effects</b>			
$\sigma^2$	7.08		
$\tau_{00}$ vs	0.00		
N vs	2		
Observations	32		
Marginal R <sup>2</sup> / Conditional R <sup>2</sup>	0.809 / NA		

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## Manually input latex code

Alternatively, you can manually insert the contents of table.txt in a chunk staring with ````\{=latex}`

See: <https://bookdown.org/yihui/rmarkdown-cookbook/raw-latex.html>