# Data Frame Summaries in PDF's

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Yes, at last. It's not perfect but it's workable. I put this off for a long time, as I thought it would absolutely require a *Pandoc Lua filter*, and I was just too busy with other things. As I learn a bit more about LaTeX, I now realize that a "simple" \renewcommand does the trick.

So here it is, starting with the YAML section.

### I. YAML Header

There is a *tex* file to include. For the *xelatex* engine, it's not mandatory, but there are several advantages to it, and I now use it systematically.

```
title: "Data Frame Summaries in PDF's"
output:
   pdf_document:
     latex_engine: xelatex
   includes:
     in_header: ./fig-valign.tex
```

### II. Included Preamble Tex File

This is the LATEX content that you'll need to copy in your own fig-align.tex:

#### III. R. Code

```
library(summarytools)
st_options(
  plain.ascii = FALSE,
  style = "rmarkdown",
  dfSummary.style = "grid",
  dfSummary.valid.col = FALSE,
  dfSummary.graph.magnif = .52,
  subtitle.emphasis = FALSE,
  tmp.img.dir = "/tmp"
)
```

## Data Frame Summary in PDF Format

tobacco

**Dimensions:** 1000 x 9

Duplicates: 2

No	Variable	Stats / Values	Freqs (% of Valid)	Graph	Missing
1	gender [factor]	1. F 2. M	489 (50.0%) 489 (50.0%)		22 (2.2%)
2	age [numeric]	Mean (sd): 49.6 (18.3) min < med < max: 18 < 50 < 80 IQR (CV): 32 (0.4)	63 distinct values		25 (2.5%)
3	age.gr [factor]	1. 18-34 2. 35-50 3. 51-70 4. 71 +	258 (26.5%) 241 (24.7%) 317 (32.5%) 159 (16.3%)		25 (2.5%)
4	BMI [numeric]	Mean (sd): $25.7 (4.5)$ min $<$ med $<$ max: 8.8 < 25.6 < 39.4 IQR (CV): $5.7 (0.2)$	974 distinct values		26 (2.6%)
5	smoker [factor]	<ol> <li>Yes</li> <li>No</li> </ol>	298 (29.8%) 702 (70.2%)		$0 \\ (0.0\%)$
6	cigs.per.day [numeric]	Mean (sd): 6.8 (11.9) min < med < max: 0 < 0 < 40 IQR (CV): 11 (1.8)	37 distinct values		35 (3.5%)
7	diseased [factor]	<ol> <li>Yes</li> <li>No</li> </ol>	224 (22.4%) 776 (77.6%)		$0 \\ (0.0\%)$
8	disease [character]	<ol> <li>Hypertension</li> <li>Cancer</li> <li>Cholesterol</li> <li>Heart</li> <li>Pulmonary</li> <li>Musculoskeletal</li> <li>Diabetes</li> <li>Hearing</li> <li>Digestive</li> <li>Hypotension</li> <li>others</li> </ol>	36 (16.2%) 34 (15.3%) 21 ( 9.5%) 20 ( 9.0%) 20 ( 9.0%) 19 ( 8.6%) 14 ( 6.3%) 14 ( 6.3%) 12 ( 5.4%) 11 ( 5.0%) 21 ( 9.5%)		778 (77.8%)

No	Variable	Stats / Values	Freqs (% of Valid)	Graph	Missing
9	samp.wgts [numeric]	Mean (sd): 1 (0.1) min $<$ med $<$ max: 0.9 < 1 < 1.1 IQR (CV): 0.2 (0.1)	0.86!: 267 (26.7%) 1.04!: 249 (24.9%) 1.05!: 324 (32.4%) 1.06!: 160 (16.0%) ! rounded		0 (0.0%)

### **Closing Remarks**

Since we redefined the command <code>includegraphics</code>, all images included using <code>[](some-image.png)</code> will be impacted. In some cases this will likely be problematic. Eventually we will find a more robust solution without such undesired side-effects. If you are well versed in LATEX and think you can solve this, by all means get in touch with me.