Installing and Using tinytex

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1 Background

We will use RStudio to create .Rmd files that contain our writing and our analysis in one file. We will compile (or "knit") these .Rmd files into .pdf files so that we can print them and upload them in an easy-to-read, portable format. The R package tinytex will help us configure some code that sits in the background and performs this compilation from .Rmd to .pdf. After this initial installation, we will not need to invoke tinytex directly.

2 Procedure

Here are the steps for compiling directly to PDF. Open R and run

- 1. install.packages("rmarkdown")
- 2. install.packages("tinytex")
- 3. library(rmarkdown)
- 4. tinytex::install_tinytex()

This step will take a couple minutes. Pay attention to any warnings/notices that arise, including those at the R prompt.

Now, restart RStudio (not just R, but the full RStudio).

Suppose you have a file called my_ps_solutions.Rmd that you want to compile. To compile it, use the "Knit to PDF" option under the RStudio - Knit button.

To view your file, open the created my_ps_solutions.pdf in whatever you use to view PDFs (Preview, Acrobat, Skim, etc.)

To compile your file, you actually have several options:

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- $\bullet\,$ Use the "Knit to PDF" option under the RS tudio - Knit button
- Use the "Knit" button directly if your .Rmd file says pdf_document in the header instead of html_document (or if pdf_document is listed first)
- At the R prompt, run

```
rmarkdown::render("my_ps_solutions.Rmd", "pdf_document")
```

• At the R prompt, run

```
rmarkdown::render("my_ps_solutions.Rmd")
```

if your .Rmd file says pdf_document in the header instead of (or above) html_document