

Tools for Reproducible Research

Week 2 Homework

1. If you weren't able to get the last problem (on GNU Make) from [last week's homework](#) to work, try again this week.
2. Try out `curl`, `wc`, `grep`, and pipes.
 - (a) Use `curl` to download the baby names data from the Social Security Administration.

```
curl -O https://www.ssa.gov/oact/babynames/names.zip
```
 - (b) Check that the file looks okay.

```
unzip -t names.zip
```
 - (c) Unzip the files into a `names/` subdirectory.

```
unzip names.zip -d names
```
 - (d) How many `.txt` files are there?
 - (e) How many total lines are in those `.txt` files?
 - (f) Across all of the files, how many lines contain the name "Pat"?
 - (g) How many contain the name "Pat" as a boy? As a girl?
3. The following R script performs an exhaustive permutation test and then plots the results. It'll take a few minutes to run.

kbroman.org/Tools4RR/assets/homework/02_homework.R

Try running it from the command line, in the background.

```
curl -O http://kbroman.org/Tools4RR/assets/homework/02_homework.R  
R CMD BATCH 02_homework.R &
```