Tools for Reproducible Research

Week 1 Homework

- 1. Install a bunch of software on your laptop.
 - (a) Windows
 - R
 - Rtools (includes make)
 - RStudio
 - Git Bash
 - An editor, such as Notepad++
 - MikTeX (for LaTeX)
 - Add c:\Program Files\R\R-3.1.2\bin to your PATH variable (for example, see this page).
 - (b) Mac
 - R
 - RStudio
 - Xcode command line tools (see this page)
 - git (via Homebrew: brew install git)
 - Perhaps iTerm2
 - An editor, such as Sublime Text
 - MacTeX or BasicTex (for LaTeX)
- 2. Download the course repository.
 - (a) Open a terminal window.
 - (b) Type git clone git://github.com/kbroman/Tools4RR
- 3. Try out GNU Make.
 - (a) Change to the Lec 1 examples directory:

```
cd Tools4RR/01_Intro/Examples
```

(b) Create a subdirectory for the figures:

```
mkdir Figs
```

(c) Use make to create Figs/fig1.pdf:

```
make Figs/fig1.pdf
```

(d) Make the whole paper:

make

(e) Use the Makefile_fancy file to remove all the pdfs:

```
make -f Makefile_fancy clean
```