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-3.2.3\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`