

# R scripts to accompany *Risk Analysis in the Earth Sciences: A Lab Manual with Exercises in R*, version 1.2

## Introduction

These files are meant to accompany the freely-available textbook *Risk Analysis in the Earth Sciences: A Lab Manual with Exercises in R*, version 1.2, edited by Patrick J. Applegate and Klaus Keller. You can download the book as a .pdf file from <https://leanpub.com/raes>.

The files in this folder are scripts in the R programming language. You can download a .zip file containing these scripts from <http://scrimhub.org/resources/raes/>.

These scripts were written by Patrick J. Applegate with contributions from Ryan L. Sriver, Gregory G. Garner, Alexander Bakker, Richard B. Alley, and Klaus Keller.

## Necessary software

To run these scripts, you'll need to download and install

- R (<https://www.r-project.org/>)
- RStudio (<https://www.rstudio.com/products/rstudio/> – optional, but highly recommended)

Both of these pieces of software will install on Windows, Mac OS X, and some popular Linux distributions. Installation instructions are provided on the respective software packages' Web sites.

We tested these scripts using R version 3.3.0 and RStudio version 0.99.902, running under Mac OS X version 10.11.5.

## Use instructions

To run one of these scripts,

1. make a new directory
2. move the script of interest into the new directory
3. open RStudio
4. in RStudio, click on File > Open File..., navigate to the directory you created in Step 1, and open the script of interest; the script should appear in RStudio
5. in RStudio, click on Session > Set Working Directory > To Source File Location
6. in RStudio, click the Source button in the upper right-hand corner of the Script window

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