

# Setup installation instructions

To create the required setup, download and install the following programs and packages, it is important to install them in **the same order**:

- download and install R <https://cloud.r-project.org/>
- download and install R studio <https://posit.co/download/rstudio-desktop/>
- download and install JAGS <https://sourceforge.net/projects/mcmc-jags/>
- install git <https://git-scm.com/downloads>
- install tinytex by running the following command in R studio:

```
tinytex::install_tinytex()
```

- install the following packages:

```
install.packages(c('tidyverse', 'knitr', 'ggplot2',  
                  'ggthemes', 'ggpubr',  
                  'fitODBOD', 'R2jags', 'bayesplot',  
                  'modelr', 'brms', 'tidybayes',  
                  'HDInterval', 'kableExtra',  
                  'nycflights13', 'forcats',  
                  'ztable',  
                  'reshape2', 'dplyr',  
                  'devtools', 'rjags', 'remotes'))
```

```
install.packages("cmdstanr",  
                 repos = c("https://mc-stan.org/r-packages/",  
                           getOption("repos")))
```

```
devtools::install_github("rmcelreath/rethinking")
```

If you are not sure how to install these things by yourself, there are plenty of step by step tutorials on the internet. If you run on a problem that you find impossible to resolve on your own, feel free to contact us: [rfl.urbaniak+teaching@gmail.com](mailto:rfl.urbaniak+teaching@gmail.com)