**Coding Standards in R**

* Write code using a text editor, save as a text file
* INDENT the code – Ctrl I
* Limit the width and length of functions

**R Markdown**

* Ctrl + Alt + I

**knitr**

* Literate programming: a stream of words and code
  + - Pros: reproducible, easier to understand
    - Cons: harder to read, slower to process
* What is knitr?
  + - An R package
    - Supports RMarkdown, LaTeX, HTML
    - Can export to PDF, HTML
    - Built into RStudio
* Requirements
  + - Support packages on CRAN
    - Knowledge of Markdown, LaTeX, HTML
    - Use Markdown
* What is Markdown?
  + - Simplified version of “markup” languages
    - No special editor required
    - Simple and intuitive formatting elements
* What is knitr good for?
  + - Manuals
    - Short technical documents
    - Tutorials
    - Reports (especially if generated periodically)
    - Data preprocessing documents/summaries
* What is knitr not good for?
  + - Long research articles
    - Complex time-consuming computations
    - Documents that require precise formatting

**Processing of knitr documents**

* You write the RMarkdown document .Rmd
* Knitr produces a Markdown document .md
* Knitr converts .md file to .html
* Rmd 🡺 md 🡺 html
* Should NOT edit or save the .md or .html until finished