## Knitr Ninja

## Yihui Xie<sup>1,\*</sup>

1. RStudio, Inc

\*Contact author: xie@yihui.name

Keywords: knitr, Dynamic document, Quick reporting, Package vignette, Tricks

The **knitr** package (Xie 2013a) is a general-purpose tool for dynamic report generation in R. In this talk, we first introduce the basic idea of dynamic documents (Xie 2013b) using simple LaTeX and Markdown examples. Then we show some less well-known applications of **knitr**, including

- spin() for the lazy and impatient: generate a report from an R script
- some RPubs gems (http://rpubs.com)
- web applications such as the Rcpp gallery and Vistat
- R package vignettes using **knitr**, and the Gangam style (Docco style)
- how the knitr book was written using LyX + knitr
- boosting Markdown using Pandoc (yes, you can have Word as desired)
- AsciiDoc for O'Reilly books
- language engines: executing shell scripts, Python, and Julia code via knitr

We hope these demos can uncover some potential of **knitr** and R, especially when they are integrated with third-party software packages.

## References

Xie, Yihui. 2013a. knitr: A General-Purpose Package for Dynamic Report Generation in R. http://CRAN.R-project.org/package=knitr.

——. 2013b. *Dynamic Documents with R and Knitr*. Chapman; Hall/CRC. http://yihui.name/knitr/.