

# Using knitr with LyX

Yihui Xie\*

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The R (<http://www.r-project.org>) package **knitr** is an alternative tool to Sweave based on a different design with more features. LyX has native support to Sweave since version 2.0.0, and the support to **knitr** was also added since 2.0.3. The usage is basically the same as the Sweave module<sup>1</sup>:

1. Open a new LyX document;
2. Go to Document ▸ Settings ▸ Modules and insert the module named Rnw (knitr);
3. Then insert R code in the document with either Insert ▸ TeX Code or the Chunk environment;

The package website <http://yihui.name/knitr/> has full documentation and demos of **knitr**; many of the examples have links to the LyX source documents.

Note the **knitr** package requires R  $\geq$  2.14.1, so you need to update R if you are using an old version of R. Here we show one chunk as a simple example:

```
rnorm(5)
## [1] 0.1212 0.9369 -1.1173 -1.0289 1.0336

df = data.frame(y = rnorm(100), x = 1:100)
summary(lm(y ~ x, data = df))

##
## Call:
## lm(formula = y ~ x, data = df)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -3.1190 -0.6713 -0.0919  0.7928  2.4972
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept) -0.10800    0.21625   -0.50    0.62
## x            0.00385    0.00372    1.04    0.30
##
## Residual standard error: 1.07 on 98 degrees of freedom
## Multiple R-squared: 0.0108, Adjusted R-squared: 0.000734
## F-statistic: 1.07 on 1 and 98 DF, p-value: 0.303
```

Please contact the package author in case of any problems.

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\*Department of Statistics, Iowa State University. Email: [xie@yihui.name](mailto:xie@yihui.name)

<sup>1</sup>read the LyX/Sweave manual from Help ▸ Specific Manuals