knitr Reference Card

Yihui Xie

November 21, 2016

1 Syntax

format	start	end	inline	output
Rnw	<<*>>=	0	\Sexpr{x}	TEX
Rmd	```{r *}	***	`r x`	MD
Rhtml	begin.rcode *</td <td>end.rcode></td> <td><!--rinline x--></td> <td>HTML</td>	end.rcode>	rinline x	HTML
Rrst	{r *}		:r:`x`	reST
Rtex	% begin.rcode *	% end.rcode	\rinline{x}	TEX
Rasciidoc	// begin.rcode *	// end.rcode	+r x+	AsciiDoc
Rtextile	### begin.rcode *	### end.rcode	@r x@	Textile
brew			<% x %>	text

^{*} denotes local chunk options, e.g. <<label, eval=FALSE>>=; x denotes inline R code, e.g. `r 1+2` (MD stands for Markdown)

2 Minimal Examples

2.1 Sweave (*.Rnw)

\documentclass{article}
\begin{document}

Below is a code chunk.
<<foo, echo=TRUE>>=
z = 1+1
plot(cars)

The value of z is \Sexpr{z}. \end{document}

2.2 R Markdown (*.Rmd)

Hi _markdown_!

r foo, echo=TRUEz = 1+1

plot(cars)

The value of z is `r z`.

2.3 Brew (*.brew)

The value of pi is % pi %.

3 Chunk Options

opts_chunk controls global chunk options, e.g. opts_chunk\$set(tidy = FALSE), which can be overridden by local chunk options. See all options at http://yihui.name/knitr/options; some frequently used options:

eval whether to evaluate the chunk echo whether to echo source code results 'markup', 'asis', 'hold', 'hide' tidy whether to reformat R code cache whether to cache results

fig.width, fig.height, out.width, out.height device and output size of figures include whether to include the chunk results in output

child filenames of child documents **engine** language name (R, python, ...)

4 Functions

knit() the main function in this package; knit input document and write output purl() extract R code from an input document

spin() spin goat's hair (an R script with roxygen comments) into wool (a literate

programming document to be passed to knit())
stitch() insert an R script into a template and compile the document
knit_hooks\$set() set or reset chunk and output hooks

5 Resources

- homepage: http://yihui.name/knitr
- development repository: https://github.com/yihui/knitr (CRAN, Rforge)
- examples: https://github.com/yihui/knitr-examples
- stackoverflow: http://stackoverflow.com/tags/knitr/
- mailing list: https://groups.google.com/group/knitr