knitr Reference Card

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May 17, 2017

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=TRUE} z = 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

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