### knitr Reference Card

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# Syntax

format	start	end	inline	output
Rnw	<<*>>=	0	\Sexpr{x}	TEX
Rmd	```{r *}		`r x`	MD
Rhtml	begin.rcode *</td <td>end.rcode&gt;</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

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

# Minimal Examples

#### Sweave (\*.Rnw)

\documentclass{article} \begin{document}

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

The value of z is  $\sum z$ . \end{document}

### R Markdown (\*.Rmd)

Hi \_markdown\_!

```{r foo, echo=TRUE} z = 1+1plot(cars)

The value of z is `r z`.

# 2.3 Brew (\*.brew)

The value of pi is <% pi %>.

# **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 reform at 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, ...)

### **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

### 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