## knitr Reference Card

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# 1 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
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)

# 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  $Sexpr{z}$ .  $\ensuremath{\mbox{document}}$ 

## 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', 'hide'

tidy whether to reform t R code

cache whether to cache results

 ${\bf fig.width,\ fig.height,\ out.width,\ out.height\ }\ {\bf device\ and\ output\ size\ of\ figures}$ 

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/questions/tagged/knitr
- mailing list: https://groups.google.com/group/knitr