

knitr Reference Card

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February 6, 2020

1 Syntax

format	start	end	inline	output
Rnw	<<*>=	@	\Sexpr{x}	TEX
Rmd	```{r *}	```	`r x`	MD
Rhtml	<!--begin.rcode *	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 <https://yihui.org/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: <https://yihui.org/knitr/>
- development repository: <https://github.com/yihui/knitr> (CRAN,
- examples: <https://github.com/yihui/knitr-examples>
- stackoverflow: <http://stackoverflow.com/tags/knitr/>
- mailing list: <https://groups.google.com/group/knitr>