

knitr Reference Card

Yihui Xie

November 16, 2022

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>