

knitr Reference Card

Yihui Xie

August 9, 2013

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
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 %>.

echo whether to echo source code

results 'markup', 'asis', '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: <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>

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