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></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 | 0r x0 | 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 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 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

#### 4 Functions

**engine** language name (R, python, ...)

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

## 5 Resources

• homepage: http://yihui.name/knitr

knit hooks\$set() set or reset chunk and output hooks

- 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