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Contents:

- 1. Markdown Syntax
- 2. Knitr chunk options
- 3. Pandoc options

Syntax

End a line with two spaces to start a new paragraph.

```
*italics* and _italics_
```

superscript^2^

Plain text

~~strikethrough~~

[link] (www.rstudio.com)

Header 1

Header 2

Header 3

Header 4

Header 5

Header 6

endash: --

emdash: ---

ellipsis: ...

inline equation: $A = \pi^{2}$

image:

horizontal rule (or slide break):

- > block quote
- * unordered list
- * item 2
 - + sub-item 1
 - + sub-item 2
- 1. ordered list
- 2. item 2
 - + sub-item 1
 - + sub-item 2

Table Header | Second Header | Second Header | Second Header | Cell 2 | Cell 3 | Cell 4

Becomes

Plain text

End a line with two spaces to start a new paragraph.

italics and italics

bold and bold

superscript²

strikethrough

link

Header 1 Header 2

Header 3

Header 4

Header 5

Header 6

endash: -

emdash: -

ellipsis: ...

inline equation: $A = \pi * r^2$

image:



horizontal rule (or slide break):

block quote

- unordered list
- item 2
 - sub-item 1
 - o sub-item 2
- 1. ordered list
- 2. item 2
 - sub-item 1
 - o sub-item 2

Table Header	Second Header			
Table Cell	Cell 2			
Cell 3	Cell 4			





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Syntax	Becomes
Make a code chunk with three back ticks followed by an r in braces. End the chunk with three back ticks: '``{r} paste("Hello", "World!")	Make a code chunk with three back ticks followed by an r in braces. End the chunk with three back ticks: paste("Hello", "World!") ## [1] "Hello World!"
Place code inline with a single back ticks. The first back tick must be followed by an R, like this `r paste("Hello", "World!")`.	Place code inline with a single back ticks. The first back tick must be followed by an R, like this Hello World!.
Add chunk options within braces. For example, `echo=FALSE` will prevent source code from being displayed:	Add chunk options within braces. For example, echo=FALSE will prevent source code from being displayed:
```{r eval=TRUE, echo=FALSE} paste("Hello", "World!")	## [1] "Hello World!"

Learn more about chunk options at <a href="http://yihui.name/knitr/options">http://yihui.name/knitr/options</a>

Chunk options				
option	default value	description		
Code evaluation				
child	NULL	A character vector of filenames. Knitr will knit the files and place them into the main document.		
code	NULL	Set to R code. Knitr will replace the code in the chunk with the code in the code option.		
engine	'R'	Knitr will evaluate the chunk in the named language, e.g. engine = 'python'. Run names(knitr::knit_engines\$get()) to see supported languages.		
eval	TRUE	If <b>FALSE</b> , knitr will not run the code in the code chunk.		
include	TRUE	If <b>FALSE</b> , knitr will run the chunk but not include the chunk in the final document.		
purl	TRUE	If <b>FALSE</b> , knitr will not include the chunk when running <b>purl()</b> to extract the source code.		
Results				
collapse	FALSE	If <b>TRUE</b> , knitr will collapse all the source and output blocks created by the chunk into a single block.		
echo	TRUE	If <b>FALSE</b> , knitr will not display the code in the code chunk above it's results in the final document.		
results	'markup'	If <b>'hide'</b> , knitr will not display the code's results in the final document. If <b>'hold'</b> , knitr will delay displaying all output pieces until the end of the chunk. If <b>'asis'</b> , knitr will pass through results without reformatting them (useful if results return raw HTML, etc.)		
error	TRUE	If <b>FALSE</b> , knitr will not display any error messages generated by the code.		
message	TRUE	If <b>FALSE</b> , knitr will not display any messages generated by the code.		
warning	TRUE	If <b>FALSE</b> , knitr will not display any warning messages generated by the code.		
Code Decoration				
comment	'##'	A character string. Knitr will append the string to the start of each line of results in the final document.		
highlight	TRUE	If <b>TRUE</b> , knitr will highlight the source code in the final output.		
prompt	FALSE	If <b>TRUE</b> , knitr will add > to the start of each line of code displayed in the final document.		
strip.white	TRUE	If <b>TRUE</b> , knitr will remove white spaces that appear at the beginning or end of a code chunk.		
tidy	FALSE	If <b>TRUE</b> , knitr will tidy code chunks for display with the <b>tidy_source()</b> function in the <b>formatR</b> package.		





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		Chunk options (Continued)
option	default value	description
Chunks		
opts.label	NULL	The label of options set in knitr:: opts_template() to use with the chunk.
R.options	NULL	Local R options to use with the chunk. Options are set with options() at start of chunk. Defaults are restored at end.
ref.label	NULL	A character vector of labels of the chunks from which the code of the current chunk is inherited.
Cache		
autodep	FALSE	If <b>TRUE</b> , knitr will attempt to figure out dependencies between chunks automatically by analyzing object names.
cache	FALSE	If <b>TRUE</b> , knitr will cache the results to reuse in future knits. Knitr will reuse the results until the code chunk is altered.
cache.comments	NULL	If <b>FALSE</b> , knitr will not rerun the chunk if only a code comment has changed.
cache.lazy	TRUE	If TRUE, knitr will use lazyload() to load objects in chunk. If FALSE, knitr will use load() to load objects in chunk.
cache.path	'cache/'	A file path to the directory to store cached results in. Path should begin in the directory that the .Rmd file is saved in.
cache.vars	NULL	A character vector of object names to cache if you do not wish to cache each object in the chunk.
dependson	NULL	A character vector of chunk labels to specify which other chunks a chunk depends on. Knitr will update a cached chunk if its dependencies change.
Animation		
anipots	'controls,loop'	Extra options for animations (see the <b>animate</b> package).
interval	1	The number of seconds to pause between animation frames.
Plots		
dev	'png'	The R function name that will be used as a graphical device to record plots, e.g. dev='CairoPDF'.
dev.args	NULL	Arguments to be passed to the device, e.g. dev.args=list(bg='yellow', pointsize=10).
dpi	72	A number for knitr to use as the dots per inch (dpi) in graphics (when applicable).
external	TRUE	If <b>TRUE</b> , knitr will externalize tikz graphics to save LaTex compilation time (only for the <b>tikzDevice::tikz()</b> device).
fig.align	'default'	How to align graphics in the final document. One of 'left', 'right', or 'center'.
fig.cap	NULL	A character string to be used as a figure caption in LaTex.
fig.env	'figure'	The Latex environment for figures.
fig.ext	NULL	The file extension for figure output, e.g. fig.ext='png'.
fig.height, fig.width	7	The width and height to use in R for plots created by the chunk (in inches).
fig.keep	'high'	If 'high', knitr will merge low-level changes into high level plots. If 'all', knitr will keep all plots (low-level changes may produce new plots). If 'first', knitr will keep the first plot only. If 'last', knitr will keep the last plot only. If 'none', knitr will discard all plots.
fig.lp	'fig:'	A prefix to be used for figure labels in latex.
fig.path	'figure/'	A file path to the directory where knitr should store the graphics files created by the chunk.
fig.pos	11	A character string to be used as the figure position arrangement in LaTex.
fig.process	NULL	A function to post-process a figure file. Should take a filename and return a filename of a new figure source.
fig.retina	1	Dpi multiplier for displaying HTML output on retina screens.
fig.scap	NULL	A character string to be used as a short figure caption.
fig.subcap	NULL	A character string to be used as captions in sub-figures in LaTex.
fig.show	'asis'	If 'hide', knitr will generate the plots created in the chunk, but not include them in the final document. If 'hold', knitr will delay displaying the plots created by the chunk until the end of the chunk. If 'animate', knitr will combine all of the plots created by the chunk into an animation.
fig.showtext	NULL	If TRUE, knitr will call showtext::showtext.begin() before drawing plots.
out.extra	NULL	A character string of extra options for figures to be passed to LaTex or HTML.
out.height, out.width	NULL	The width and height to scale plots to in the final output. Can be in units recognized by output, e.g. 8\\linewidth, 50px
resize.height, resize.width	NULL	The width and height to resize tike graphics in LaTex, passed to {}.
sanitize	FALSE	If <b>TRUE</b> , knitr will sanitize tike graphics for LaTex.



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>- one at a time (incrementally)

# R Markdown Reference Guide

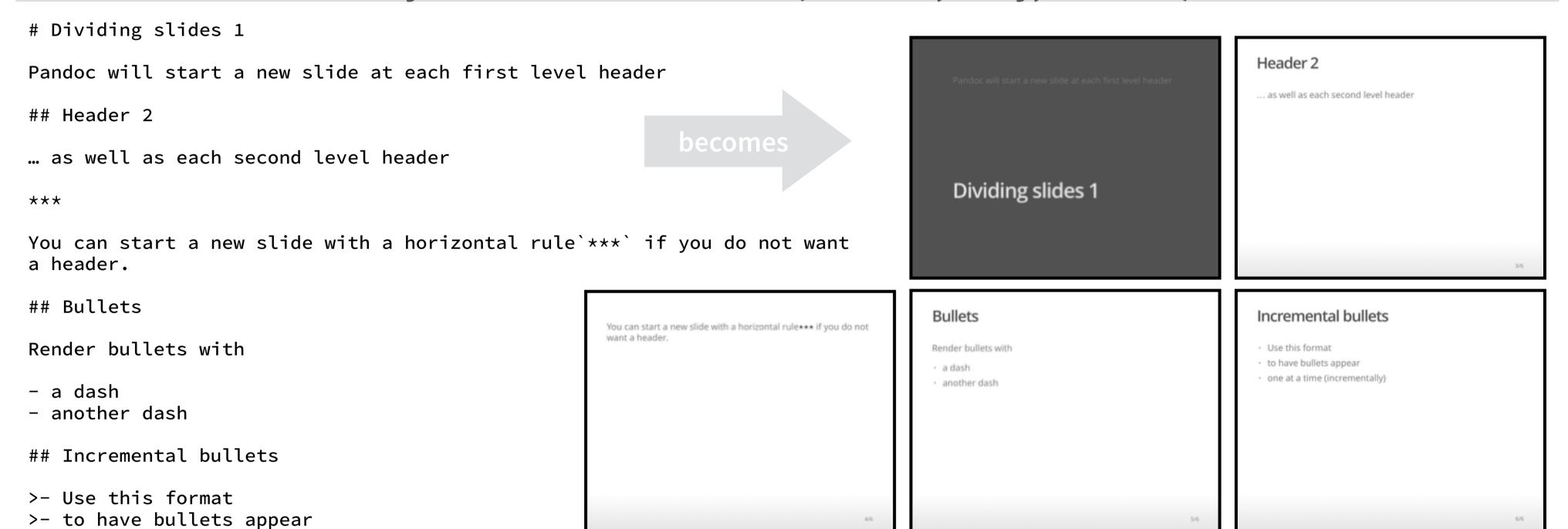
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#### **Templates Latex options Basic YAML Interactive Docs Template options** html_document title: "Slides" title: "Chapters" pdf_document title: "A Web Doc" title: "My PDF" output: output: word_document author: "John Doe" output: pdf_document html_document: slidy_presentation: md_document date: "May 1, 2015" fontsize: 11pt incremental: true toc: true ioslides_presentation output: md_document geometry: margin=1in runtime: shiny toc_depth: 2 slidy_presentation beamer_presentation

### Syntax for slide formats (ioslides, slidy, beamer)



### Slide display modes

Press a key below during presentation to enter display mode. Press **esc** to exit display mode.

	ioslides	slidy	
<b>f</b> -	enable fullscreen mode	<b>C</b> - show table of contents	
<b>W</b> -	toggle widescreen mode	<b>F</b> - toggle display of the footer	
<b>O</b> –	enable overview mode	A - toggle display of current vs all sl	lides
<b>h</b> -	enable code highlight mode	<b>S</b> - make fonts smaller	
<b>p</b> -	show presenter notes	<b>B</b> - make fonts bigger	

Top level options to customize LaTex (pdf) output				
option	description			
lang	Document language code			
fontsize	Font size (e.g. 10pt, 11pt, 12 pt)			
documentclass	Latex document class (e.g. article)			
classoption	Option for document class (e.g. oneside); may be repeated			
geometry	Options for geometry class (e.g. margin=1in); may be repeated			
mainfont, sansfont, monofont, mathfont	Document fonts (works only with xelatex and lualatex, see the latex_engine option)			
linkcolor, urlcolor, citecolor	Color for internal, external, and citation links (red, green, magenta, cyan, blue, black)			



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option	html	pdf	word	pm	ioslides	slidy	beamer	description
colortheme							X	Beamer color theme to use (e.g., colortheme: "dolphin").
CSS	X				X	Χ		Filepath to CSS style to use to style document (e.g., css: styles.css).
duration						X		Add a countdown timer (in minutes) to footer of slides (e.g., duration: 45).
fig_caption	X	X	Χ		X	Χ	Χ	Should figures be rendered with captions?
fig_crop		X					Χ	Should pdfcrop utility be automatically applied to figures (when available)?
fig_height	Χ	Χ	X	X	X	X	X	Default figure height (in inches) for document.
fig_retina	Χ			X	X	Χ		Scaling to perform for retina displays (e.g., fig_retina: 2).
fig_width	Χ	Χ	Χ	X	X	Χ	X	Default figure width (in inches) for document.
font_adjustmen						Χ		Increase or decrease font size for entire presentation (e.g., font_adjustment: −1).
fonttheme							Χ	Beamer font theme to use (e.g., fonttheme: "structurebold").
footer						Χ		Text to add to footer of each slide (e.g., footer: "Copyright (c) 2014 RStudio").
highlight	Χ	Χ				X	Х	Syntax highlighting style (e.g. "tango", "pygments", "kate", "zenburn", and
includes	Χ	Χ		X	X	Χ	X	See below
-in_header	Χ	Χ			X	Χ	X	File of content to place in document header (e.g., in_header: header.html).
-before_body	Χ	Χ			X	Χ	Χ	File of content to place before document body (e.g., before_body:
-after_body	Χ	Χ			X	Χ	Χ	File of content to place after document body (e.g., after_body: doc_suffix.html).
incremental					X	Χ	Χ	Should bullets appear one at a time (on presenter mouse clicks)?
keep_md	Χ				X	Χ		Save a copy of .md file that contains knitr output (in addition to the .Rmd and HTML files)?
keep_tex		Χ					Χ	Save a copy of .tex file that contains knitr output (in addition to the .Rmd and PDF files)?
latex_engine		Χ						Engine to render latex. Should be one of "pdflatex", "xelatex", and "lualatex".
lib_dir	Χ				X	Χ		Directory of dependency files to use (Bootstrap, MathJax, etc.) (e.g., lib_dir: libs).
logo					X			File path to a logo (at least 128 x 128) to add to presentation (e.g., logo: logo.png).
mathjax	Χ				X	Χ		Set to local or a URL to use a local/URL version of MathJax to render equations
number_section	Χ	Χ						Add section numbering to headers (e.g., number_sections: true).
pandoc_args	Χ	Χ	X	X	X	X	X	Arguments to pass to Pandoc (e.g., pandoc_args: ["title-prefix", "Foo"]).
preserve_yaml				X				Preserve YAML front matter in final document?
reference_docx			X					A .docx file whose styles should be copied to use (e.g., reference_docx:
self_contained	Χ				X	X		Embed dependencies into the doc? Set to false to keep dependencies in external files.
slide_level							Χ	The lowest heading level that defines individual slides (e.g., slide_level: 2).
smaller					X			Use the smaller font size in the presentation?
smart	Χ				X	X		Convert straight quotes to curly, dashes to em-dashes, to ellipses, and so on?
template	X	Х			-	X	X	Pandoc template to use when rendering file (e.g., template:
theme	X	-				-	X	Bootswatch or Beamer theme to use for page. Valid bootswatch themes include "cerulean", "journal", "flatly", "readable", "spacelab", "united", and "cosmo".
toc	Χ	Χ		X			X	Add a table of contents at start of document? (e.g., toc: true).
toc_depth	Χ	Χ		X				The lowest level of headings to add to table of contents (e.g., toc_depth: 2).
transition					X			Speed of slide transitions should be "slower", "faster" or a number in seconds.
variant				X				The flavor of markdown to use; one of "markdown", "markdown_strict", "markdown_github", "markdown_mmd", and "markdown_phpextra"
widescreen					X			Display presentation in widescreen format?



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