scss Syntax Cheat Sheet

Sass (syntactically awesome stylesheets) is a scripting language which is compiled into CSS. There exists two Sass syntaxes: SCSS and the older SASS.

Document classes

book Default is two-sided. report No \part divisions.

No \part or \chapter divisions. article

letter Letter (?).

Large sans-serif font. slides

Used at the very beginning of a document:

\documentclass{class}. Use \begin{document} to start contents and \end{document} to end the document.

Common document class options

10pt/11pt/12pt Font size. letterpaper/a4paper Paper size. twocolumn Use two columns.

twoside Set margins for two-sided.

landscape Landscape orientation. Must use dvips

-t landscape.

draft Double-space lines. Usage: \documentclass[opt,opt]{class}.

Packages

fullpage Use 1 inch margins.

anysize Set margins: $\mbox{\mbox{marginsize}}\{l\}\{r\}\{t\}\{b\}.$ multicol Use n columns: βn .

latexsym Use LATEX symbol font.

graphicx Show image: \includegraphics[width=x]{file}.

Insert URL: \url{http://...}.

Use before \begin{document}. Usage: \usepackage{package}

Title

\author{text} Author of document. \title{text} Title of document.

 $\del{deterministic} \del{deterministic} \del{determinist} \del{deterministic} \del{d$ Date.

These commands go before \begin{document}. The declaration \maketitle goes at the top of the document.

Miscellaneous

\pagestyle{empty} Empty header, footer and no page num-

bers.

\tableofcontents Add a table of contents here.

Document structure

\part{title} $\sl title$ \chapter{title} \paragraph{title} $\scalebox{section}{title}$ \subparagraph{title}

 $\sl title$

Use $\secondsymbol{\text{Second}}\{x\}$ suppresses heading numbers of depth > x, where chapter has depth 0. Use a *, as in \section*{title}, to not number a particular item—these items will also not appear in the table of contents.

Text environments

\begin{comment} Comment (not printed). Requires verbatim

package.

Indented quotation block. \begin{auote}

\begin{quotation} Like quote with indented paragraphs.

Quotation block for verse. \begin{verse}

Lists

\begin{enumerate} Numbered list. \begin{itemize} Bulleted list. \begin{description} Description list. $\time text$ Add an item.

in [x] textUse x instead of normal bullet or number.

Required for descriptions.

References

\label{marker} Set a marker for cross-reference, often of the

form \label{sec:item}.

Give section/body number of marker. \ref{marker}

\pageref{marker} Give page number of marker. \footnote{text} Print footnote at bottom of page.

Floating bodies

\begin{table}[place] Add numbered table. \begin{figure}[place] Add numbered figure. \begin{equation} [place] Add numbered equation. \caption{text} Caption for the body.

The place is a list valid placements for the body. t=top, h=here, b=bottom, p=separate page, !=place even if ugly. Captions and label markers should be within the environment.

Text properties

Font face

Command	Declaration	Effect		
$\text{textrm}\{text\}$	{\rmfamily text}	Roman family		
$\text{textsf}\{text\}$	$\{\sffamily\ text\}$	Sans serif family		
$\text{texttt}\{text\}$	{\ttfamily \text}	Typewriter family		
$\texttt{textmd}\{text\}$	${\tt \{ mdseries } text{} }$	Medium series		
$\text{textbf}\{text\}$	$\{\bfseries\ text\}$	Bold series		
$\text{textup}\{text\}$	$\{\upshape text\}$	Upright shape		
$\text{textit}\{text\}$	$\{\t tshape text\}$	$Italic\ shape$		
$\text{textsl}\{text\}$	${\sl shape } text{}$	Slanted shape		
$\text{textsc}\{text\}$	$\{\sc tape text\}$	SMALL CAPS SHAPE		
$\ensuremath{\texttt{emph}}{text}$	$\{ \text{\ } text \}$	Emphasized		
$\verb \textnormal{ } text} {\tt lormalfont} text} Document font$				
\underline{text}	-	$\underline{\text{Underline}}$		
The command (tttt) form handles enging better than the				

The command (tttt) form handles spacing better than the declaration (ttt) form.

Font size

\tiny	tiny	\Large Large
\scriptsize	scriptsize	\LARGE LARGE
\footnotesize	footnotesize	1
\small	small	\huge huge
\normalsize	onumber normal size	TT
\large	large	\Huge Huge

These are declarations and should be used in the form {\small ...}, or without braces to affect the entire document.

Verbatim text

\begin{verbatim} Verbatim environment. \begin{verbatim*} Spaces are shown as □.

\verb!text! Text between the delimiting characters (in this case '!') is verbatim.

Justification

Environment Declaration\begin{center} \centering \begin{flushleft} \raggedright \begin{flushright} \raggedleft

Miscellaneous

 $\label{linespread} x \ changes the line spacing by the multiplier <math>x$.

Text-mode symbols

Symbols

&	\&	_	_		\ldots	•	\textbullet
\$	\\$	^	\^{}		\textbar	\	\textbackslash
%	۱%	~	\~{}	#	\#	8	\s

Accents

ò \'o	ó ∖'o	ô \^o	õ \~o	ō \=o
ό \.ο	ö \"o	g \c o	ŏ \v o	ő \H o
ç \c c	o /d o	o √p o	⊙ \t 00	∞ \oe
Œ \OE	æ \ae	Æ \AE	å \aa	Å \AA
ø \o	Ø \0			1 \i
j ∖j	i ~ '	٤ ?'		1

Delimiters

"	" "	{ \{	[[((< \textless
, ,	",,	} \}	1]))	> \textgreater

Dashes

Name	Source	Example	Usage
hyphen	-	X-ray	In words.
en-dash		1-5	Between numbers.
em-dash		Yes—or no?	Punctuation.

Line and page breaks

// Begin new line without new paragraph. * Prohibit pagebreak after linebreak. Don't print current line. \kill

\pagebreak Start new page.

\noindent Do not indent current line.

Miscellaneous

\today April 19, 2015.

Prints \sim instead of $\^{\sim}$ {}, which makes $^{\sim}$. \$\sim\$ Space, disallow linebreak (W.J.~Clinton).

Indicate that the . ends a sentence when following \@.

an uppercase letter.

Horizontal space of length l (Ex: l = 20pt). $\hspace\{l\}$

 $\vertical space of length l.$ \mathbf{h} .

Tabular environments

tabbing environment

\= Set tab stop. \> Go to tab stop.

Tab stops can be set on "invisible" lines with \kill at the end of the line. Normally \\ is used to separate lines.

tabular environment

\begin{array} [pos] {cols} \begin{tabular} [pos] {cols} \begin{tabular*}{width}[pos]{cols}

tabular column specification

1 Left-justified column. С Centered column.

Right-justified column. $p\{width\}$ Same as $parbox[t]\{width\}$.

Insert decl instead of inter-column space. Inserts a vertical line between columns.

tabular elements

\hline Horizontal line between rows.

 $\cline{x-y}$ Horizontal line across columns x through y. $\mbox{\mbox{multicolumn}} \{cols\} \{text\}$

A cell that spans n columns, with cols column specification.

Math mode

For inline math, use $\(...\)$ or $\...\$. For displayed math, use $\[...\]$ or $\begin{equation}$.

Superscript x $\{x\}$ Subscript_x $_{\{x\}}$ $\frac{x}{y}$ $\sum {k=1}^n$ \sart[n]{x} $\sqrt[n]{x}$ \prod {k=1}^n

Math-mode symbols

< \leq > \geq $\neq \neq$ \approx \approx \times \times ÷ \div \pm \pm \cdot ^{\circ} o \circ / \prime ··· \cdots ¬ \neg ∧ \wedge ∨ \vee ∞ \infty \supset \rightarrow \rightarrow ∃ \exists ∉ \notin ⇒ \Rightarrow \subset ∩ \cap \mid ⇔ \Leftrightarrow \cup $\dot{a} \setminus \text{dot a}$ \hat{a} \hat a \bar{a} \bar a \tilde{a} \tilde a \alpha β \beta γ \gamma δ \delta \epsilon (\zeta η \eta \varepsilon \theta ι \iota κ \kappa ϑ \vartheta λ \lambda μ \mu $\nu \setminus nu$ \xi $\pi \ \mathrm{pi}$ ρ \rho \tau σ \sigma τ χ \chi \upsilon ϕ \phi ψ \psi Γ \Gamma \omega Δ \Delta Θ \Theta $\Lambda \setminus Lambda \equiv \setminus Xi$ $\Pi \$ Σ \Sigma Υ \Upsilon Φ \Phi Ψ \Psi Ω \Omega

Bibliography and citations

When using BibTeX, you need to run latex, bibtex, and latex twice more to resolve dependencies.

Citation types

 $\text{cite}\{key\}$ Full author list and year. (Watson and Crick

 \citeA{key} Full author list. (Watson and Crick) \citeN{key} Full author list and vear. Watson and Crick

\shortciteA{key} Abbreviated author list. ?

 $\text{citeyear}\{key\}$ Cite year only. (1953)

All the above have an NP variant without parentheses; Ex. \citeNP.

BibT_EX entry types

@article Journal or magazine article. @book Book with publisher. Book without publisher. @booklet

@conference Article in conference proceedings. A part of a book and/or range of pages. @inbook Cincollection A part of book with its own title.

If nothing else fits. @misc @phdthesis PhD. thesis.

@proceedings Proceedings of a conference.

@techreport Tech report, usually numbered in series.

@unpublished Unpublished.

BibT_EX fields

address Address of publisher. Not necessary for major

publishers.

Names of authors, of format author Title of book when part of it is cited. booktitle

Chapter or section number. chapter edition Edition of a book.

Names of editors. editor institution Sponsoring institution of tech. report.

journal Journal name.

Used for cross ref. when no author. key month Month published. Use 3-letter abbreviation.

Any additional information. note number Number of journal or magazine.

organization Organization that sponsors a conference.

Page range (2,6,9--12). pages

Publisher's name. publisher Name of school (for thesis). school Name of series of books. series

title Title of work.

Type of tech. report, ex. "Research Note". type

Volume of a journal or book. volume Year of publication.

year Not all fields need to be filled. See example below.

Common BibT_FX style files

abstract alpha with abstract abbrv Standard

alpha Standard APAapa Unsorted plain Standard unsrt

The LATEX document should have the following two lines just before \end{document}, where bibfile.bib is the name of the BibTeX file.

\bibliographystyle{plain} \bibliography{bibfile}

BibT_EX example

The BibTeX database goes in a file called file.bib, which is processed with bibtex file.

```
@String{N = {Na\-ture}}
@Article{WC:1953.
 author = {James Watson and Francis Crick},
 title = {A structure for Deoxyribose Nucleic Acid},
 volume = \{171\},
 pages = \{737\},
         = 1953
```

Sample LATEX document

\documentclass[11pt]{article} \usepackage{fullpage} \title{Template} \author{Name} \begin{document} \maketitle

\section{section}

\subsection*{subsection without number} text \textbf{bold text} text. Some math: \$2+2=5\$

\subsection{subsection}

text \emph{emphasized text} text. \cite{WC:1953}

discovered the structure of DNA.

A table:

```
\begin{table}[!th]
\begin{tabular}{|1|c|r|}
\hline
first & row & data \\
second & row & data \\
\hline
\end{tabular}
\caption{This is the caption}
\label{ex:table}
\end{table}
```

The table is numbered \ref{ex:table}. \end{document}

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