

Conversion Set A: replace and wrap, 0 or more *'s

General: $\text{\LaTeX_tag}\{text\} \rightarrow \text{Markdown_tag}text\text{Markdown_tag}$ OR $\text{\LaTeX_tag}^*\{text\} \rightarrow \text{Markdown_tag}text\text{Markdown_tag}$
OR

Example: $\text{\part}\{text\} \rightarrow \#text\#$ OR $\text{\part}^*\{text\} \rightarrow \#text\#$

\LaTeX_tag	Markdown_tag	Comments
part	#	
section	##	
subsection	###	
paragraph	####	
textbf	**	
emph	*	
caption	*	Arbitrary superset decision - captions not supported in Markdown

Conversion Set B: begin/end insertion

General: $\text{\begin}\{\text{\LaTeX_tag}\} text \text{\end}\{\text{\LaTeX_tag}\} \rightarrow \text{Markdown_tag}\text{\begin}\{\text{\LaTeX_tag}\} text \text{\end}\{\text{\LaTeX_tag}\}\text{Markdown_tag}$

Example: $\text{\begin}\{\text{eqnarray}\} text \text{\end}\{\text{eqnarray}\} \rightarrow \text{\$}\text{\$}\text{\begin}\{\text{eqnarray}\} text \text{\end}\{\text{eqnarray}\}\text{\$}\text{\$}$

\LaTeX_tag	Markdown_tag	Comments
eqnarray	\$\$	MathJax syntax

Conversion Set C: find and replace

General: $\text{\LaTeX_tag} \rightarrow \text{Markdown_tag}$

Example: $\text{\item} \rightarrow *$

\LaTeX_tag	Markdown_tag	Comments
\item	*	
$\text{\begin}\{\text{itemize}\}$		i.e. remove the \LaTeX_tag
$\text{\end}\{\text{itemize}\}$		i.e. remove the \LaTeX_tag
$\text{\begin}\{\text{tabular}\}$		i.e. remove the \LaTeX_tag
$\text{\end}\{\text{tabular}\}$		
$\text{\begin}\{\text{minipage}\}$	$\text{\n}^{***}\text{\n}$	
$\text{\end}\{\text{minipage}\}$	$\text{\n}^{***}\text{\n}$	
$\text{\framebox}\{$		
\&	&	
$\text{/}\text{\#}$	#	
$\text{/}\text{\$}$	\$	
$\text{/}\text{\%}$	%	
$\text{\textasciicircum}\{$	^	
$\{*\}$	*	
_	—	
$\{\}$		
$\{\}$		
$\text{\{}$	{	
$\text{\}}$	}	
$\text{\textbackslash}\{$	\\	
$\text{\textasciitilde}\{$	~	

Conversion Set D: Environment Specific Find and Replace

General: $\text{\begin}\{\text{\LaTeX_environment}\} text \text{\LaTeX_tag} text \text{\end}\{\text{\LaTeX_environment}\} \rightarrow \text{\begin}\{\text{\LaTeX_environment}\} text \text{Markdown_tag} text \text{\end}\{\text{\LaTeX_environment}\}$

$\text{\LaTeX_environment}$	\LaTeX_tag	Markdown_tag	Comments
tabular	1st: \hline		only the first hline
tabular	2nd: \hline	— —	# of 's depend on # of columns, i.e. # of c's in $\{c c c\}$ expression
tabular	rest: $\text{\hline} \text{\n}$		i.e. remove the \LaTeX_tag
tabular	&		i.e. remove the \LaTeX_tag
\tabularnewline			Whenever $\exists \text{\hline}$, there $\exists \text{\tabularnewline}$