# The texvc package* 

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#### Abstract

This package provides all LaTeX command availible in MediaWiki. This includes several packages like amsmath, and adds some specific commands such as $\backslash$ Reals.


## 1 Introduction

### 1.1 Arrows

The first group of MediaWiki coustom command (other_delimiters2) defines short hand notations for some arrorws.
\darr
\dArr
\Darr
\lang
\rang
\uarr
\uArr
\Uarr

### 1.2 Literals

The second group of MediaWiki coustom commands (other_litereals3) defines short hand notations for some literals.

Short hand notation for literal $\mathbb{C}$.
Short hand notation for arrow $\downarrow$. Short hand notation for arrow $\Downarrow$. Short hand notation for arrow $\Downarrow$. Short hand notation for arrow $\langle$. Short hand notation for arrow $\rangle$. Short hand notation for arrow $\uparrow$. Short hand notation for arrow $\Uparrow$. Short hand notation for arrow $\Uparrow$.

Short hand notation for literal $\mathbb{H}$.
Short hand notation for literal $\mathbb{N}$.
Short hand notation for literal $\mathbb{Q}$.
Short hand notation for literal $\mathbb{R}$.
Short hand notation for literal $\mathbb{Z}$.
Short hand notation for literal $\aleph$.
Short hand notation for literal $\aleph$.
*This document corresponds to texvc v1.0, dated 2015/11/09.

| $\backslash$ Alpha | Short hand notation for literal A. |
| :---: | :---: |
| \and | Short hand notation for literal $\wedge$. |
| \ang | Short hand notation for literal $\angle$. |
| $\backslash$ Beta | Short hand notation for literal B. |
| $\backslash$ bull | Short hand notation for literal |
| $\backslash \mathrm{Chi}$ | Short hand notation for literal X. |
| \clubs | Short hand notation for literal \%. |
| $\backslash$ cnums | Short hand notation for literal $\mathbb{C}$. |
| $\backslash$ Complex | Short hand notation for literal $\mathbb{C}$. |
| \Dagger | Short hand notation for literal $\ddagger$. |
| \diamonds | Short hand notation for literal $\diamond$. |
| $\backslash$ Doteq | Short hand notation for literal $\doteqdot$ |
| $\backslash$ doublecap | Short hand notation for literal $\cap$. |
| \doublecup | Short hand notation for literal $\mathbb{U}$. |
| \empty | Short hand notation for literal $\emptyset$. |
| \Epsilon | Short hand notation for literal E. |
| \Eta | Short hand notation for literal H. |
| \exist | Short hand notation for literal $\exists$. |
| \ge | Short hand notation for literal $\geq$ |
| $\backslash \mathrm{gggtr}$ | Short hand notation for literal >> |
| \hAar | Short hand notation for literal $\Leftrightarrow$ |
| \harr | Short hand notation for literal $\leftrightarrow$. |
| $\backslash$ Harr | Short hand notation for literal $\Leftrightarrow$ |
| $\backslash$ hearts | Short hand notation for literal $\bigcirc$. |
| \image | Short hand notation for literal $\Im$. |
| \infin | Short hand notation for literal $\infty$. |
| \Iota | Short hand notation for literal I. |
| \isin | Short hand notation for literal $\in$ |
| $\backslash$ Kappa | Short hand notation for literal K. |
| \larr | Short hand notation for literal $\leftarrow$ |
| \Larr | Short hand notation for literal $\Leftarrow$ |
| $\backslash \mathrm{Arr}$ | Short hand notation for literal $\Leftarrow$ |
| \le | Short hand notation for literal $\leq$ |
| \lrarr | Short hand notation for literal $\leftrightarrow$ |
| \Lrarr | Short hand notation for literal $\Leftrightarrow$ |
| $\backslash 1 r A r r$ | Short hand notation for literal $\Leftrightarrow$ |
| $\backslash \mathrm{Mu}$ | Short hand notation for literal M. |
| $\backslash$ natnums | Short hand notation for literal $\mathbb{N}$. |
| $\backslash \mathrm{ne}$ | Short hand notation for literal $\neq$. |
| $\backslash \mathrm{Nu}$ | Short hand notation for literal N. |
| $\backslash 0$ | Short hand notation for literal $\emptyset$. |
| \omicron | Short hand notation for literal o. |
| $\backslash$ \micron | Short hand notation for literal O. |
| \or | Short hand notation for literal $\vee$. |
| \part | Short hand notation for literal $\partial$. |
| $\backslash p l u s m n$ | Short hand notation for literal $\pm$. |


| \rarr | Short hand notation for literal $\rightarrow$ |
| :---: | :---: |
| $\backslash$ Rarr | Short hand notation for literal $\Rightarrow$ |
| $\backslash \mathrm{Arr}$ | Short hand notation for literal $\Rightarrow$ |
| $\backslash$ real | Short hand notation for literal $\Re$. |
| $\backslash$ reals | Short hand notation for literal $\mathbb{R}$. |
| $\backslash$ Reals | Short hand notation for literal $\mathbb{R}$. |
| $\backslash$ restriction | Short hand notation for literal $\upharpoonright$. |
| $\backslash$ Rho | Short hand notation for literal P. |
| $\backslash$ sdot | Short hand notation for literal . |
| $\backslash$ sect | Short hand notation for literal §. |
| $\backslash$ spades | Short hand notation for literal $\boldsymbol{¢}$. |
| \sub | Short hand notation for literal $\subset$ |
| $\backslash$ sube | Short hand notation for literal $\subseteq$ |
| $\backslash$ supe | Short hand notation for literal $\supseteq$ |
| $\backslash$ Tau | Short hand notation for literal T. |
| \thetasym | Short hand notation for literal $\vartheta$. |
| \varcoppa | Short hand notation for literal coppa. |
| \weierp | Short hand notation for literal $\wp$. |
| $\backslash$ Zeta | Short hand notation for literal Z. |

## 2 Implementation

\darr This macro does the following replacement. 1 \newcommand\{\darr\}\{\downarrow\}
$\backslash \mathrm{dArr}$ This macro does the following replacement.
2 \newcommand\{\dArr\}\{<br>Downarrow\}
$\backslash$ Darr This macro does the following replacement. 3 \newcommand\{\Darr\}\{\Downarrow\}
\lang This macro does the following replacement. 4 \newcommand $\{\backslash$ lang $\}\{\backslash$ langle $\}$
\rang This macro does the following replacement.
5 \newcommand $\{\backslash$ rang $\}\{$ rangle $\}$
\uarr This macro does the following replacement. 6 \newcommand\{\uarr\}\{\uparrow\}
\uArr This macro does the following replacement. 7 \newcommand\{\uArr\}\{\Uparrow\}
\Uarr This macro does the following replacement. 8 \newcommand\{\Uarr\}\{\Uparrow\}
\C This macro does the following replacement. 9 \newcommand $\{\backslash \mathrm{C}\}\{\backslash$ mathbb $\{\mathrm{C}\}\}$
$\backslash \mathrm{H}$ This macro does the following replacement. $10 \backslash$ renewcommand $\{\backslash \mathrm{H}\}\{\backslash$ mathbb $\{\mathrm{H}\}\}$
$\backslash \mathrm{N} \quad$ This macro does the following replacement. 11 \newcommand $\{\backslash \mathrm{N}\}\{\backslash$ mathbb $\{\mathrm{N}\}\}$
$\backslash \mathrm{Q}$ This macro does the following replacement. $12 \backslash$ newcommand $\{\backslash Q\}\{\backslash$ mathbb $\{Q\}\}$
$\backslash \mathrm{R}$ This macro does the following replacement. $13 \backslash$ newcommand $\{\backslash$ R\}\{\mathbb $\{$ R $\}\}$
$\backslash \mathrm{Z}$ This macro does the following replacement. 14 \newcommand $\{\backslash Z\}\{\backslash$ mathbb $\{Z\}\}$
\alef This macro does the following replacement. 15 \newcommand\{\alef\}\{\aleph\}
\alefsym This macro does the following replacement. $16 \backslash$ newcommand $\{\backslash a l e f s y m\}\{\backslash a l e p h\}$
$\backslash$ Alpha This macro does the following replacement. 17 \newcommand\{\Alpha\}\{\mathrm\{A\}\}
\and This macro does the following replacement. 18 }\{\backslash\) land $\}$
\ang This macro does the following replacement. 19 \newcommand $\{\backslash$ ang $\}\{\backslash$ angle $\}$
$\backslash$ Beta This macro does the following replacement. 20 \newcommand\{\Beta\}\{\mathrm\{B\}\}
\bull This macro does the following replacement. 21 \newcommand $\{\backslash$ bull\} $\{\backslash$ bullet $\}$
$\backslash$ Chi This macro does the following replacement. $22 \backslash$ newcommand $\{\backslash$ Chi $\}\{\backslash$ mathrm $\{\mathrm{X}\}\}$
\clubs This macro does the following replacement. 23 \newcommand\{\clubs\}\{\clubsuit\}
\cnums This macro does the following replacement. 24 \newcommand $\{\backslash$ cnums $\}\{\backslash$ mathbb\{C\}\}
$\backslash$ Complex This macro does the following replacement. 25 \newcommand\{\Complex\}\{\mathbb\{C\}\}
$\backslash$ Dagger This macro does the following replacement. 26 \newcommand\{\Dagger\}\{\ddagger\}
\diamonds This macro does the following replacement. 27 \newcommand\{\diamonds\}\{\diamondsuit\}
$\backslash$ Doteq This macro does the following replacement. $28 \backslash$ renewcommand $\{\backslash$ Doteq $\}\{\backslash$ doteqdot $\}$
\doublecap This macro does the following replacement. 29 \{\Cap\}
\doublecup This macro does the following replacement. $30 \backslash$ renewcommand $\{\backslash$ doublecup $\}\{\backslash$ Cup $\}$
\empty This macro does the following replacement. 31 \{\emptyset\}
$\backslash$ Epsilon This macro does the following replacement. 32 \newcommand\{\Epsilon\}\{\mathrm\{E\}\}
\Eta This macro does the following replacement. 33 \newcommand\{\Eta\}\{\mathrm\{H\}\}
\exist This macro does the following replacement. 34 \newcommand\{\exist\}\{\exists\}
\ge This macro does the following replacement. $35 \backslash$ renewcommand $\{\backslash$ ge $\}\{\backslash$ geq $\}$
\gggtr This macro does the following replacement. 36 \{\ggg\}
\hAar This macro does the following replacement. 37 \newcommand\{ $\backslash$ hAar\} $\} \backslash$ Leftrightarrow $\}$
\harr This macro does the following replacement. 38 \newcommand\{\harr\}\{<br>eftrightarrow\}
$\backslash$ Harr This macro does the following replacement. 39 \newcommand\{\Harr\}\{\Leftrightarrow\}
\hearts This macro does the following replacement. 40 \newcommand\{\hearts\}\{\heartsuit\}
\image This macro does the following replacement. 41 \newcommand\{\image\}\{\Im\}
\infin This macro does the following replacement. 42 \newcommand\{\infin\}\{\infty\}
\Iota This macro does the following replacement. 43 \newcommand $\{\backslash$ Iota\} $\{\backslash$ mathrm\{I\}\}
\isin This macro does the following replacement. 44 \newcommand\{\isin\}\{\in\}
\Kappa This macro does the following replacement. 45 \newcommand\{\Kappa\}\{\mathrm\{K\}\}
\larr This macro does the following replacement. 46 \newcommand\{\larr\}\{\leftarrow\}
\Larr This macro does the following replacement. 47 \newcommand\{ $\backslash$ Larr $\}\{\backslash$ Leftarrow $\}$
$\backslash 1$ Arr This macro does the following replacement. 48 \newcommand $\{\backslash 1$ Arr\} $\{\backslash$ Leftarrow\}
\le This macro does the following replacement. 49 \{\leq\}
\lrarr This macro does the following replacement. 50 \newcommand $\{\backslash 1$ rarr $\}\{\backslash$ leftrightarrow $\}$
\Lrarr This macro does the following replacement. 51 \newcommand\{\Lrarr\}\{\Leftrightarrow\}
\lrArr This macro does the following replacement. 52 \newcommand\{\lrArr\}\{\Leftrightarrow\}
$\backslash \mathrm{Mu}$ This macro does the following replacement. 53 \newcommand\{\Mu\}\{\mathrm\{M\}\}
\natnums This macro does the following replacement. 54 \newcommand\{\natnums\}\{\mathbb\{N\}\}
\ne This macro does the following replacement. $55 \backslash$ renewcommand $\{\backslash$ ne $\}\{\backslash$ neq $\}$
$\backslash \mathrm{Nu}$ This macro does the following replacement. 56 \newcommand $\{\backslash \mathrm{Nu}\}\{\backslash$ mathrm $\{\mathrm{N}\}\}$
\0 This macro does the following replacement. 57 }\{\backslash\) emptyset $\}$
\omicron This macro does the following replacement. 58 \newcommand\{\omicron\}\{\mathrm\{o\}\}
\Omicron This macro does the following replacement. 59 \newcommand\{\Omicron\}\{\mathrm\{0\}\}
\orMediaWiki This macro does the following replacement. 60 \newcommand\{\orMediaWiki\}\{\lor\}
$\backslash$ part This macro does the following replacement. 61 }\{\backslash\) partial $\}$
\plusmn This macro does the following replacement. 62 \newcommand $\{\backslash$ plusmn $\}\{\backslash p m\}$
\rarr This macro does the following replacement. 63 \newcommand $\{\backslash$ rarr $\}\{\backslash$ rightarrow $\}$
$\backslash$ Rarr This macro does the following replacement. 64 \newcommand $\{\backslash$ Rarr $\}\{\backslash$ Rightarrow $\}$
$\backslash r A r r$ This macro does the following replacement. 65 \newcommand\{\rArr\}\{<br>Rightarrow\}
\real This macro does the following replacement. $66 \backslash$ newcommand $\{\backslash$ real $\}\{\backslash \operatorname{Re}\}$
\reals This macro does the following replacement. 67 \newcommand $\{\backslash$ reals $\}\{$ mathbb $\{R\}\}$
$\backslash$ Reals This macro does the following replacement. 68 \newcommand\{\Reals\}\{\mathbb\{R\}\}
\restriction This macro does the following replacement. 69 \{\upharpoonright\}
$\backslash$ Rho This macro does the following replacement. $70 \backslash$ newcommand $\{\backslash$ Rho $\}\{$ mathrm $\{\mathrm{P}\}\}$
\sdot This macro does the following replacement. 71 \newcommand $\{\backslash$ sdot $\}\{\backslash$ cdot $\}$
\sect This macro does the following replacement. 72 \newcommand $\{\backslash$ sect $\}\{\backslash S\}$
\spades This macro does the following replacement. 73 \newcommand\{\spades\}\{\spadesuit\}
\sub This macro does the following replacement. 74 \newcommand\{\sub\}\{\subset\}
\sube This macro does the following replacement. 75 \newcommand\{\sube\}\{\subseteq\}
\supe This macro does the following replacement. 76 \newcommand\{\supe\}\{\supseteq\}
$\backslash$ Tau This macro does the following replacement. 77 \newcommand $\{\backslash$ Tau $\}\{\backslash$ mathrm\{T\}\}
\thetasym This macro does the following replacement. 78 \newcommand\{\thetasym\}\{\vartheta\}
\varcoppa This macro does the following replacement. 79 \newcommand\{\varcoppa\}\{\mbox\{<br>coppa\}\}
\weierp This macro does the following replacement. 80 \newcommand\{\weierp\}\{\wp\}
$\backslash$ Zeta This macro does the following replacement. 81 \newcommand $\{\backslash$ Zeta\} $\{\backslash$ mathrm\{Z\}\}

