The **texvc** package*

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Abstract

This package provides all LaTeX commands available in MediaWiki. This includes several packages like amsmath, and adds some specific commands such as \texttt{\textbackslash Reals}.

1 Introduction

1.1 Arrows

The first group of MediaWiki custom commands (other_delimiters) defines short hand notations for some arrows.

\begin{itemize}
  \item \texttt{\textbackslash darr} Short hand notation for arrow $\downarrow$.
  \item \texttt{\textbackslash dArr} Short hand notation for arrow $\Downarrow$.
  \item \texttt{\textbackslash Darr} Short hand notation for arrow $\Downarrow$.
  \item \texttt{\textbackslash lang} Short hand notation for arrow $\langle$.
  \item \texttt{\textbackslash rang} Short hand notation for arrow $\rangle$.
  \item \texttt{\textbackslash uarr} Short hand notation for arrow $\uparrow$.
  \item \texttt{\textbackslash uArr} Short hand notation for arrow $\Uparrow$.
  \item \texttt{\textbackslash Uarr} Short hand notation for arrow $\Uparrow$.
\end{itemize}

1.2 Literals

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

\begin{itemize}
  \item \texttt{\textbackslash C} Short hand notation for literal $\mathbb{C}$.
  \item \texttt{\textbackslash H} Short hand notation for literal $\mathbb{H}$.
  \item \texttt{\textbackslash N} Short hand notation for literal $\mathbb{N}$.
  \item \texttt{\textbackslash Q} Short hand notation for literal $\mathbb{Q}$.
  \item \texttt{\textbackslash R} Short hand notation for literal $\mathbb{R}$.
  \item \texttt{\textbackslash Z} Short hand notation for literal $\mathbb{Z}$.
  \item \texttt{\textbackslash alef} Short hand notation for literal $\aleph$.
  \item \texttt{\textbackslash alefsym} Short hand notation for literal $\aleph$.
\end{itemize}

*This document corresponds to texvc v1.0, dated 2015/11/09.
<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>\Alpha</td>
<td>Short hand notation for literal A.</td>
</tr>
<tr>
<td>\and</td>
<td>Short hand notation for literal ∧.</td>
</tr>
<tr>
<td>\ang</td>
<td>Short hand notation for literal ∠.</td>
</tr>
<tr>
<td>\Beta</td>
<td>Short hand notation for literal B.</td>
</tr>
<tr>
<td>\bull</td>
<td>Short hand notation for literal •.</td>
</tr>
<tr>
<td>\Chi</td>
<td>Short hand notation for literal X.</td>
</tr>
<tr>
<td>\clubs</td>
<td>Short hand notation for literal ♦.</td>
</tr>
<tr>
<td>\cnums</td>
<td>Short hand notation for literal C.</td>
</tr>
<tr>
<td>\Complex</td>
<td>Short hand notation for literal C.</td>
</tr>
<tr>
<td>\Dagger</td>
<td>Short hand notation for literal †.</td>
</tr>
<tr>
<td>\diamonds</td>
<td>Short hand notation for literal ♦.</td>
</tr>
<tr>
<td>\Doteq</td>
<td>Short hand notation for literal ≈.</td>
</tr>
<tr>
<td>\doublecap</td>
<td>Short hand notation for literal ⊔.</td>
</tr>
<tr>
<td>\doublecup</td>
<td>Short hand notation for literal ⊕.</td>
</tr>
<tr>
<td>\empty</td>
<td>Short hand notation for literal ∅.</td>
</tr>
<tr>
<td>\Epsilon</td>
<td>Short hand notation for literal E.</td>
</tr>
<tr>
<td>\Eta</td>
<td>Short hand notation for literal Η.</td>
</tr>
<tr>
<td>\exist</td>
<td>Short hand notation for literal ∃.</td>
</tr>
<tr>
<td>\ge</td>
<td>Short hand notation for literal ≥.</td>
</tr>
<tr>
<td>\gggtr</td>
<td>Short hand notation for literal ≫.</td>
</tr>
<tr>
<td>\hAar</td>
<td>Short hand notation for literal ⇔.</td>
</tr>
<tr>
<td>\harr</td>
<td>Short hand notation for literal ⇔.</td>
</tr>
<tr>
<td>\Harr</td>
<td>Short hand notation for literal ⇔.</td>
</tr>
<tr>
<td>\hearts</td>
<td>Short hand notation for literal ♠.</td>
</tr>
<tr>
<td>\image</td>
<td>Short hand notation for literal ℑ.</td>
</tr>
<tr>
<td>\infin</td>
<td>Short hand notation for literal ∞.</td>
</tr>
<tr>
<td>\Iota</td>
<td>Short hand notation for literal I.</td>
</tr>
<tr>
<td>\isin</td>
<td>Short hand notation for literal ∈.</td>
</tr>
<tr>
<td>\Kappa</td>
<td>Short hand notation for literal Κ.</td>
</tr>
<tr>
<td>\larr</td>
<td>Short hand notation for literal ←.</td>
</tr>
<tr>
<td>\llarr</td>
<td>Short hand notation for literal ⇐.</td>
</tr>
<tr>
<td>\llArr</td>
<td>Short hand notation for literal ⇐.</td>
</tr>
<tr>
<td>\Mu</td>
<td>Short hand notation for literal M.</td>
</tr>
<tr>
<td>\natnums</td>
<td>Short hand notation for literal N.</td>
</tr>
<tr>
<td>\ne</td>
<td>Short hand notation for literal ≠.</td>
</tr>
<tr>
<td>\Nu</td>
<td>Short hand notation for literal N.</td>
</tr>
<tr>
<td>\O</td>
<td>Short hand notation for literal O.</td>
</tr>
<tr>
<td>\or</td>
<td>Short hand notation for literal ∨.</td>
</tr>
<tr>
<td>\part</td>
<td>Short hand notation for literal ∂.</td>
</tr>
<tr>
<td>\plusmn</td>
<td>Short hand notation for literal ±.</td>
</tr>
</tbody>
</table>
2 Implementation

\darr This macro does the following replacement.
1 \newcommand{darr}{\downarrow}

\dArr This macro does the following replacement.
2 \newcommand{dArr}{\Downarrow}

\Darr This macro does the following replacement.
3 \newcommand{Darr}{\Downarrow}

\lang This macro does the following replacement.
4 \newcommand{lang}{\langle}

\rang This macro does the following replacement.
5 \newcommand{rang}{\rangle}

\uarr This macro does the following replacement.
6 \newcommand{uarr}{\uparrow}

\uArr This macro does the following replacement.
7 \newcommand{uArr}{\Uparrow}

\Warr This macro does the following replacement.
8 \newcommand{Warr}{\Uparrow}
\C \text{This macro does the following replacement.}
\newcommand{\C}{\mathbb{C}}

\H \text{This macro does the following replacement.}
\renewcommand{\H}{\mathbb{H}}

\N \text{This macro does the following replacement.}
\newcommand{\N}{\mathbb{N}}

\Q \text{This macro does the following replacement.}
\newcommand{\Q}{\mathbb{Q}}

\R \text{This macro does the following replacement.}
\newcommand{\R}{\mathbb{R}}

\Z \text{This macro does the following replacement.}
\newcommand{\Z}{\mathbb{Z}}

\alef \text{This macro does the following replacement.}
\newcommand{\alef}{\aleph}

\alefsym \text{This macro does the following replacement.}
\newcommand{\alefsym}{\aleph}

\Alpha \text{This macro does the following replacement.}
\newcommand{\Alpha}{\mathrm{A}}

\and \text{This macro does the following replacement.}
\renewcommand{\and}{\land}

\ang \text{This macro does the following replacement.}
\newcommand{\ang}{\angle}

\Beta \text{This macro does the following replacement.}
\newcommand{\Beta}{\mathrm{B}}

\bull \text{This macro does the following replacement.}
\newcommand{\bull}{\bullet}

\Chi \text{This macro does the following replacement.}
\newcommand{\Chi}{\mathfrak{X}}

\clubs \text{This macro does the following replacement.}
\newcommand{\clubs}{\clubsuit}

\cnums \text{This macro does the following replacement.}
\newcommand{\cnums}{\mathbb{C}}
\Complex This macro does the following replacement.
\newcommand{\Complex}{\mathbb{C}}

\Dagger This macro does the following replacement.
\newcommand{\Dagger}{\ddagger}

\diamonds This macro does the following replacement.
\newcommand{\diamonds}{\diamondsuit}

\Doteq This macro does the following replacement.
\renewcommand{\Doteq}{\doteqdot}

\doublecap This macro does the following replacement.
\renewcommand{\doublecap}{\Cap}

\doublecup This macro does the following replacement.
\renewcommand{\doublecup}{\Cup}

\empty This macro does the following replacement.
\renewcommand{\empty}{\emptyset}

\Epsilon This macro does the following replacement.
\newcommand{\Epsilon}{\mathrm{E}}

\Eta This macro does the following replacement.
\newcommand{\Eta}{\mathrm{H}}

\exist This macro does the following replacement.
\newcommand{\exist}{\exists}

\ge This macro does the following replacement.
\renewcommand{\ge}{\geq}

\gggtr This macro does the following replacement.
\renewcommand{\gggtr}{\ggg}

\hAar This macro does the following replacement.
\newcommand{\hAar}{\Leftrightarrow}

\harr This macro does the following replacement.
\newcommand{\harr}{\leftrightarrow}

\Harr This macro does the following replacement.
\newcommand{\Harr}{\Leftrightarrow}

\hearts This macro does the following replacement.
\newcommand{\hearts}{\heartsuit}
\textbf{image} This macro does the following replacement.

\texttt{41 \newcommand{\image}{\Im}}

\textbf{infin} This macro does the following replacement.

\texttt{42 \newcommand{\infin}{\infty}}

\textbf{Iota} This macro does the following replacement.

\texttt{43 \newcommand{\Iota}{\mathrm{I}}}\texttt{\infty}

\textbf{isin} This macro does the following replacement.

\texttt{44 \newcommand{\isin}{\in}}

\textbf{Kappa} This macro does the following replacement.

\texttt{45 \newcommand{\Kappa}{\mathrm{K}}}\texttt{\infty}

\textbf{larr} This macro does the following replacement.

\texttt{46 \newcommand{\larr}{\leftarrow}}\texttt{\infty}

\textbf{Larr} This macro does the following replacement.

\texttt{47 \newcommand{\Larr}{\Leftarrow}}\texttt{\infty}

\textbf{lArr} This macro does the following replacement.

\texttt{48 \newcommand{\lArr}{\Leftarrow}}\texttt{\infty}

\textbf{le} This macro does the following replacement.

\texttt{49 \renewcommand{\le}{\leq}}\texttt{\infty}

\textbf{lrarr} This macro does the following replacement.

\texttt{50 \newcommand{\lrarr}{\leftrightarrow}}\texttt{\infty}

\textbf{Lrarr} This macro does the following replacement.

\texttt{51 \newcommand{\Lrarr}{\Leftrightarrow}}\texttt{\infty}

\textbf{lrArr} This macro does the following replacement.

\texttt{52 \newcommand{\lrArr}{\Leftrightarrow}}\texttt{\infty}

\textbf{Mu} This macro does the following replacement.

\texttt{53 \newcommand{\Mu}{\mathrm{M}}}\texttt{\infty}

\textbf{natnums} This macro does the following replacement.

\texttt{54 \newcommand{\natnums}{\mathbb{N}}}\texttt{\infty}

\textbf{ne} This macro does the following replacement.

\texttt{55 \renewcommand{\ne}{\neq}}\texttt{\infty}

\textbf{Nu} This macro does the following replacement.

\texttt{56 \newcommand{\Nu}{\mathbb{N}}}}
This macro does the following replacement.
\renewcommand{\O}{\emptyset}

This macro does the following replacement.
\newcommand{\omicron}{\mathrm{o}}

This macro does the following replacement.
\newcommand{\Omicron}{\mathrm{O}}

This macro does the following replacement.
\newcommand{\orMediaWiki}{\lor}

This macro does the following replacement.
\newcommand{\part}{\partial}

This macro does the following replacement.
\newcommand{\plusmn}{\pm}

This macro does the following replacement.
\newcommand{\rarr}{\rightarrow}

This macro does the following replacement.
\newcommand{\Rarr}{\Rightarrow}

This macro does the following replacement.
\newcommand{\real}{\Re}

This macro does the following replacement.
\newcommand{\reals}{\mathbb{R}}

This macro does the following replacement.
\newcommand{\restriction}{\upharpoonright}

This macro does the following replacement.
\newcommand{\Rho}{\mathrm{P}}

This macro does the following replacement.
\newcommand{\sdot}{\cdot}

This macro does the following replacement.
\newcommand{\sect}{\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}
\Tau This macro does the following replacement.
77 \newcommand{\Tau}{\mathbb{T}}
\thetasym This macro does the following replacement.
78 \newcommand{\thetasym}{\vartheta}
\varcoppa This macro does the following replacement.
79 \newcommand{\varcoppa}{\mbox{\coppa}}
\weierp This macro does the following replacement.
80 \newcommand{\weierp}{\wp}
\Zeta This macro does the following replacement.
81 \newcommand{\Zeta}{\mathbb{Z}}