

Test of the **overarrows** package predefined commands

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1 **\vv**

\TestOverArrow*{vv}			
Test of \vv and \vv* macros			
\vv for different math styles			
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
\vec{v}	\vec{v}	\vec{v}	\vec{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$
$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$
\vv kerning			
$\vec{t}_{\vec{u}\vec{v}}$	\vec{i}_0	$\vec{v} = \vec{v}_x + \vec{v}_y + \vec{v}_z = v_x \vec{i} + v_y \vec{j} + v_z \vec{k}$	
\vv* kerning			
$\vec{t}_{\vec{u}\vec{v}}$	\vec{i}_0	$\vec{v} = \vec{v}_x + \vec{v}_y + \vec{v}_z = v_x \vec{i} + v_y \vec{j} + v_z \vec{k}$	

2 `\overrightarrow`

<code>\TestOverArrow{overrightarrow}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$
$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$

3 `\underrightarrow`

<code>\TestOverArrow{underrightarrow}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\underrightarrow{v}	\underrightarrow{v}	\underrightarrow{v}	\underrightarrow{v}
\underrightarrow{AB}	\underrightarrow{AB}	\underrightarrow{AB}	\underrightarrow{AB}
$\underrightarrow{\text{grad}}$	$\underrightarrow{\text{grad}}$	$\underrightarrow{\text{grad}}$	$\underrightarrow{\text{grad}}$
$\underrightarrow{\text{my long vector}}$	$\underrightarrow{\text{my long vector}}$	$\underrightarrow{\text{my long vector}}$	$\underrightarrow{\text{my long vector}}$

4 `\overleftarrow`

<code>\TestOverArrow{overleftarrow}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\overleftarrow{v}	\overleftarrow{v}	\overleftarrow{v}	\overleftarrow{v}
\overleftarrow{AB}	\overleftarrow{AB}	\overleftarrow{AB}	\overleftarrow{AB}
$\overleftarrow{\text{grad}}$	$\overleftarrow{\text{grad}}$	$\overleftarrow{\text{grad}}$	$\overleftarrow{\text{grad}}$
$\overleftarrow{\text{my long vector}}$	$\overleftarrow{\text{my long vector}}$	$\overleftarrow{\text{my long vector}}$	$\overleftarrow{\text{my long vector}}$

5 `\underleftarrow`

<code>\TestOverArrow{underleftarrow}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\underleftarrow{v}	\underleftarrow{v}	\underleftarrow{v}	\underleftarrow{v}
\underleftarrow{AB}	\underleftarrow{AB}	\underleftarrow{AB}	\underleftarrow{AB}
$\underleftarrow{\text{grad}}$	$\underleftarrow{\text{grad}}$	$\underleftarrow{\text{grad}}$	$\underleftarrow{\text{grad}}$
$\underleftarrow{\text{my long vector}}$	$\underleftarrow{\text{my long vector}}$	$\underleftarrow{\text{my long vector}}$	$\underleftarrow{\text{my long vector}}$

6 `\overleftrightharpoonup`

<code>\TestOverArrow{overleftrightharpoonup}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
$\overleftrightharpoonup{v}$	$\overleftrightharpoonup{v}$	$\overleftrightharpoonup{v}$	$\overleftrightharpoonup{v}$
$\overleftrightharpoonup{AB}$	$\overleftrightharpoonup{AB}$	$\overleftrightharpoonup{AB}$	$\overleftrightharpoonup{AB}$
$\overleftrightharpoonup{\text{grad}}$	$\overleftrightharpoonup{\text{grad}}$	$\overleftrightharpoonup{\text{grad}}$	$\overleftrightharpoonup{\text{grad}}$
$\overleftrightharpoonup{\text{my long vector}}$	$\overleftrightharpoonup{\text{my long vector}}$	$\overleftrightharpoonup{\text{my long vector}}$	$\overleftrightharpoonup{\text{my long vector}}$

7 `\underleftrightharpoonarrow`

<code>\TestOverArrow{underleftrightharpoonarrow}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
$\underleftrightharpoonup v$	$\underleftrightharpoonup v$	$\underleftrightharpoonup v$	$\underleftrightharpoonup v$
$\underleftrightharpoonup AB$	$\underleftrightharpoonup AB$	$\underleftrightharpoonup AB$	$\underleftrightharpoonup AB$
$\underleftrightharpoonup \text{grad}$	$\underleftrightharpoonup \text{grad}$	$\underleftrightharpoonup \text{grad}$	$\underleftrightharpoonup \text{grad}$
$\underleftrightharpoonup \text{my long vector}$	$\underleftrightharpoonup \text{my long vector}$	$\underleftrightharpoonup \text{my long vector}$	$\underleftrightharpoonup \text{my long vector}$

8 `\overrightharpoonup`

<code>\TestOverArrow{overrightharpoonup}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$
$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$

9 `\underrightharpoonup`

<code>\TestOverArrow{underrightharpoonup}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
$\underset{\rightarrow}{v}$	$\underset{\rightarrow}{v}$	$\underset{\rightarrow}{v}$	$\underset{\rightarrow}{v}$
$\underset{\rightarrow}{AB}$	$\underset{\rightarrow}{AB}$	$\underset{\rightarrow}{AB}$	$\underset{\rightarrow}{AB}$
$\underset{\rightarrow}{\mathrm{grad}}$	$\underset{\rightarrow}{\mathrm{grad}}$	$\underset{\rightarrow}{\mathrm{grad}}$	$\underset{\rightarrow}{\mathrm{grad}}$
$\underset{\rightarrow}{\textit{my long vector}}$	$\underset{\rightarrow}{\textit{my long vector}}$	$\underset{\rightarrow}{\textit{my long vector}}$	$\underset{\rightarrow}{\textit{my long vector}}$

10 `\overrightharpoonowdown`

<code>\TestOverArrow{overrightharpoonowdown}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$
$\overrightarrow{\textit{my long vector}}$	$\overrightarrow{\textit{my long vector}}$	$\overrightarrow{\textit{my long vector}}$	$\overrightarrow{\textit{my long vector}}$

11 `\underrightharpoondown`

<code>\TestOverArrow{underrightharpoondown}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
$\underset{\rightharpoonup}{v}$	$\underset{\rightharpoonup}{v}$	$\underset{\rightharpoonup}{v}$	$\underset{\rightharpoonup}{v}$
$\underset{\rightharpoonup}{AB}$	$\underset{\rightharpoonup}{AB}$	$\underset{\rightharpoonup}{AB}$	$\underset{\rightharpoonup}{AB}$
$\underset{\rightharpoonup}{\text{grad}}$	$\underset{\rightharpoonup}{\text{grad}}$	$\underset{\rightharpoonup}{\text{grad}}$	$\underset{\rightharpoonup}{\text{grad}}$
$\underset{\rightharpoonup}{\text{my long vector}}$	$\underset{\rightharpoonup}{\text{my long vector}}$	$\underset{\rightharpoonup}{\text{my long vector}}$	$\underset{\rightharpoonup}{\text{my long vector}}$

12 `\overleftharpoonup`

<code>\TestOverArrow{overleftharpoonup}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\overleftarrow{v}	\overleftarrow{v}	\overleftarrow{v}	\overleftarrow{v}
\overleftarrow{AB}	\overleftarrow{AB}	\overleftarrow{AB}	\overleftarrow{AB}
$\overleftarrow{\text{grad}}$	$\overleftarrow{\text{grad}}$	$\overleftarrow{\text{grad}}$	$\overleftarrow{\text{grad}}$
$\overleftarrow{\text{my long vector}}$	$\overleftarrow{\text{my long vector}}$	$\overleftarrow{\text{my long vector}}$	$\overleftarrow{\text{my long vector}}$

13 `\underleftharpoonup`

<code>\TestOverArrow{underleftharpoonup}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
$\underleftharpoonup v$	$\underleftharpoonup v$	$\underleftharpoonup v$	$\underleftharpoonup v$
$\underleftharpoonup AB$	$\underleftharpoonup AB$	$\underleftharpoonup AB$	$\underleftharpoonup AB$
$\underleftharpoonup \text{grad}$	$\underleftharpoonup \text{grad}$	$\underleftharpoonup \text{grad}$	$\underleftharpoonup \text{grad}$
$\underleftharpoonup \text{my long vector}$	$\underleftharpoonup \text{my long vector}$	$\underleftharpoonup \text{my long vector}$	$\underleftharpoonup \text{my long vector}$

14 `\overleftharpoondown`

<code>\TestOverArrow{overleftharpoondown}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
$\overleftharpoondown v$	$\overleftharpoondown v$	$\overleftharpoondown v$	$\overleftharpoondown v$
$\overleftharpoondown AB$	$\overleftharpoondown AB$	$\overleftharpoondown AB$	$\overleftharpoondown AB$
$\overleftharpoondown \text{grad}$	$\overleftharpoondown \text{grad}$	$\overleftharpoondown \text{grad}$	$\overleftharpoondown \text{grad}$
$\overleftharpoondown \text{my long vector}$	$\overleftharpoondown \text{my long vector}$	$\overleftharpoondown \text{my long vector}$	$\overleftharpoondown \text{my long vector}$

15 `\underleftharpoonowdown`

<code>\TestOverArrow{\underleftharpoonowdown}</code>			
<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
$\underleftharpoonowdown v$	$\underleftharpoonowdown v$	$\underleftharpoonowdown v$	$\underleftharpoonowdown v$
$\underleftharpoonowdown AB$	$\underleftharpoonowdown AB$	$\underleftharpoonowdown AB$	$\underleftharpoonowdown AB$
$\underleftharpoonowdown \text{grad}$	$\underleftharpoonowdown \text{grad}$	$\underleftharpoonowdown \text{grad}$	$\underleftharpoonowdown \text{grad}$
$\underleftharpoonowdown \text{my long vector}$	$\underleftharpoonowdown \text{my long vector}$	$\underleftharpoonowdown \text{my long vector}$	$\underleftharpoonowdown \text{my long vector}$

16 `\overbar`

\TestOverArrow*{\overbar}

Test of \overbar and \overbar* macros

\overbar for different math styles

\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
\overline{v}	\overline{v}	\overline{v}	\overline{v}
\overline{AB}	\overline{AB}	\overline{AB}	\overline{AB}
$\overline{\text{grad}}$	$\overline{\text{grad}}$	$\overline{\text{grad}}$	$\overline{\text{grad}}$
$\overline{\text{my long vector}}$	$\overline{\text{my long vector}}$	$\overline{\text{my long vector}}$	$\overline{\text{my long vector}}$

\overbar kerning

$\overline{t}_{\overline{u}}$
 \overline{i}_0
 $\overline{v} = \overline{v}_x + \overline{v}_y + \overline{v}_z = v_x \overline{i} + v_y \overline{j} + v_z \overline{k}$

\overbar* kerning

$\overline{t}_{\overline{u}}$
 \overline{i}_0
 $\overline{v} = \overline{v}_x + \overline{v}_y + \overline{v}_z = v_x \overline{i} + v_y \overline{j} + v_z \overline{k}$

17 `\underbar`

`\TestOverArrow*{\underbar}`

Test of `\underbar` and `\underbar*` macros

`\underbar` for different math styles

<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\underline{v}	\underline{v}	\underline{v}	\underline{v}
\underline{AB}	\underline{AB}	\underline{AB}	\underline{AB}
$\underline{\text{grad}}$	$\underline{\text{grad}}$	$\underline{\text{grad}}$	$\underline{\text{grad}}$
$\underline{\text{my long vector}}$	$\underline{\text{my long vector}}$	$\underline{\text{my long vector}}$	$\underline{\text{my long vector}}$

`\underbar` kerning

$$\underline{t} \underline{u} \underline{v} \quad \underline{i} 0 \quad \underline{v} = \underline{v}_x + \underline{v}_y + \underline{v}_z = v_x \underline{i} + v_y \underline{j} + v_z \underline{k}$$

`\underbar*` kerning

$$\underline{t} \underline{u} \underline{v} \quad \underline{i} 0 \quad \underline{v} = \underline{v}_x + \underline{v}_y + \underline{v}_z = v_x \underline{i} + v_y \underline{j} + v_z \underline{k}$$