

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

<code>\displaystyle</code>	<code>\textstyle</code>	<code>\scriptstyle</code>	<code>\scriptscriptstyle</code>
\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

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

\vv* kerning

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

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 `\overleftrightharpoonrightarrow`

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

7 `\underleftrightharpoonarrow`

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

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>
\underline{v}	\underline{v}	\underline{v}	\underline{v}
\underline{AB}	\underline{AB}	\underline{AB}	\underline{AB}
$\underline{\text{grad}}$	$\underline{\text{grad}}$	$\underline{\text{grad}}$	$\underline{\text{grad}}$
$\underline{\text{my long vector}}$	$\underline{\text{my long vector}}$	$\underline{\text{my long vector}}$	$\underline{\text{my long vector}}$

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}
$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$
$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$

11 `\underrightharpoonowdown`

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

12 `\overleftharpoonowup`

<code>\TestOverArrow{\overleftharpoonowup}</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 `\overleftharpoonowdown`

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

15 `\underleftharpoondown`

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

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

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

`\underbar*` kerning

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