Test of the **overarrows** package predefined commands

Julien Labbé April 30, 2025

Te	est of \vv and	l \vv* macr	OS
	\vv for differen	nt math styles	3
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\overrightarrow{\operatorname{grad}}$	$\overrightarrow{\operatorname{grad}}$	$\overrightarrow{\operatorname{grad}}$	$\overline{\mathrm{grad}}$
$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my \ long \ vector}$	$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my}\ long\ vector$
	\vv ke	rning	
$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}}$ \overrightarrow{t}_0	$\vec{v} = \vec{v}_x + \vec{v}$	$\vec{v}_y + \vec{v}_z = v_x \vec{\imath}$	$+v_{y}\overrightarrow{\jmath}+v_{z}\overrightarrow{k}$
	\vv* ke	erning	
$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}}$ $\overrightarrow{\imath}_{0}$	$\overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}$	$\vec{v}_y + \vec{v}_z = v_x \vec{i} + \vec{v}_z$	$-v_{y}\overrightarrow{\jmath}+v_{z}\overrightarrow{k}$

\overrightarrow

\	overrightarrow}		
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\xrightarrow{\text{grad}}$	$\overrightarrow{\operatorname{grad}}$	$\overrightarrow{\operatorname{grad}}$	$\overrightarrow{\operatorname{grad}}$
$\overrightarrow{my \ long \ vector}$	$\overrightarrow{my} \ long \ vector$	$\overrightarrow{my\ long\ vector}$	\overrightarrow{my} long vector

\underrightarrow

\	underrightarrow}		
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
\xrightarrow{v}	$\xrightarrow{\upsilon}$	\xrightarrow{v}	$\stackrel{v}{ ightarrow}$
\xrightarrow{AB}	$\stackrel{AB}{\Longrightarrow}$	$\overset{AB}{\longrightarrow}$	$\overset{AB}{\longrightarrow}$
$\overset{\operatorname{grad}}{\longrightarrow}$	$\overset{\operatorname{grad}}{\longrightarrow}$	$\overset{\operatorname{grad}}{\longrightarrow}$	$\overset{\operatorname{grad}}{\longrightarrow}$
$\xrightarrow{my\ long\ vector}$	$\xrightarrow{my\ long\ vector}$	$\xrightarrow{my\ long\ vector}$	$\xrightarrow{my\ long\ vector}$

\overleftarrow

\	\TestOverArrow{\overleftarrow}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle		
$\overline{\overleftarrow{v}}$	\leftarrow	\leftarrow	₹		
\overleftarrow{AB}	\overleftarrow{AB}	\overleftarrow{AB}	\overleftarrow{AB}		
$\stackrel{\longleftarrow}{\operatorname{grad}}$	$\overset{\longleftarrow}{\operatorname{grad}}$	$\overset{\longleftarrow}{\operatorname{grad}}$	← grad		
$\stackrel{\longleftarrow}{my\ long\ vector}$	$\stackrel{\longleftarrow}{my\ long\ vector}$	$\stackrel{\longleftarrow}{my\ long\ vector}$	$\stackrel{\longleftarrow}{my}\ long\ vector$		

5 \underleftarrow

\	\underleftarrow}		
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
$\leftarrow v$	$\stackrel{v}{\leftarrow}$	$\stackrel{v}{\leftarrow}$	$\overset{v}{\leftarrow}$
AB	AB	$\overset{AB}{\longleftarrow}$	$\overset{AB}{\longleftarrow}$
$\overset{\operatorname{grad}}{\longleftarrow}$	$\stackrel{\operatorname{grad}}{\longleftarrow}$	$\overset{\operatorname{grad}}{\longleftarrow}$	$\overset{\operatorname{grad}}{\longleftarrow}$
my long vector	$\underset{\longleftarrow}{my\ long\ vector}$	$\underset{\longleftarrow}{my\ long\ vector}$	$my\ long\ vector$

$6 \quad \verb|\| \text{overleftrightarrow} \\$

\TestOverArrow{\overleftrightarrow}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle	
\overrightarrow{v}	\overleftrightarrow{v}	\overleftrightarrow{v}	\overleftrightarrow{v}	
\overleftrightarrow{AB}	\overleftrightarrow{AB}	\overleftrightarrow{AB}	\overleftarrow{AB}	
$\stackrel{\longleftrightarrow}{\operatorname{grad}}$	$\overrightarrow{\operatorname{grad}}$	$\stackrel{\longleftrightarrow}{\operatorname{grad}}$	⟨ →→ grad	
$\stackrel{\longleftarrow}{my\ long\ vector}$	$\stackrel{\longleftarrow}{my\ long\ vector}$	$\stackrel{\longleftarrow}{my\ long\ vector}$	$\stackrel{\longleftrightarrow}{my\ long\ vector}$	

7 \underleftrightarrow

\	\TestOverArrow{\underleftrightarrow}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle		
$\stackrel{\mathcal{U}}{\longleftrightarrow}$	$\stackrel{\mathcal{U}}{\longleftrightarrow}$	$\stackrel{v}{\longleftrightarrow}$	$\overset{v}{\longleftrightarrow}$		
$\stackrel{AB}{\Longleftrightarrow}$	$\overset{AB}{\longleftrightarrow}$	$\overset{AB}{\longleftrightarrow}$	$\overset{AB}{\longleftrightarrow}$		
$\overset{\operatorname{grad}}{\longleftrightarrow}$	$\overset{\operatorname{grad}}{\longleftrightarrow}$	$\overset{\operatorname{grad}}{\longleftrightarrow}$	$\overset{\operatorname{grad}}{\longleftrightarrow}$		
$\xrightarrow{my\ long\ vector}$	$\xrightarrow{my\ long\ vector}$	$\overset{my\ long\ vector}{\longleftrightarrow}$	$\overset{my\ long\ vector}{\longleftrightarrow}$		

8 \overrightharpoonup

\TestOverArrow{\overrightharpoonup}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle	
\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}	\overrightarrow{v}	
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	
$\overrightarrow{\operatorname{grad}}$	$\stackrel{-}{\operatorname{grad}}$	$\overrightarrow{\operatorname{grad}}$	$\overrightarrow{\operatorname{grad}}$	
my long vector	$\overrightarrow{my \ long \ vector}$	my long vector	my long vector	

9 \underrightharpoonup

\	\TestOverArrow{\underrightharpoonup}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle		
$\underline{v}_{\downarrow}$	$\underline{v}_{\backprime}$	$\underline{v}_{\backprime}$	\underline{v}		
\underline{AB}	\underline{AB}	AB	\overrightarrow{AB}		
$\underline{\underline{\operatorname{grad}}}$	$\underline{\underline{\operatorname{grad}}}$	$\underline{\underline{\mathrm{grad}}}$	grad		
my long vector	my long vector	my long vector	my long vector		

$10 \quad \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ \ \ \ \ }} \texttt{\ \ \ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ \ \ }} \texttt{\ \ \ \ \ \ }} \texttt{\ \ \ \ \ \ }} \texttt$

\	\TestOverArrow{\overrightharpoondown}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle		
\overline{v}'	\overline{v}'	$\overline{v'}$	\overline{v}'		
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}		
$\overline{\operatorname{grad}}$	$\frac{\overline{}}{\mathrm{grad}}$	$\overline{\mathrm{grad}}$	$_{ m grad}$		
my long vector	my long vector	my long vector	my long vector		

\underrightharpoondown

\TestOverArrow{\underrightharpoondown}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle	
\underline{v}	\underline{v}	$\frac{v}{}$	$\frac{v}{}$	
AB	AB	AB	$\frac{AB}{}$	
$\frac{\operatorname{grad}}{\mathcal{I}}$	$\frac{\operatorname{grad}}{}$	$\frac{\operatorname{grad}}{}$	grad	
my long vector	my long vector	my long vector	my long vector	

\overleftharpoonup

\TestOverArrow{\overleftharpoonup}				
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle	
\overline{v}	$\stackrel{\checkmark}{v}$	\overline{v}	v	
\overleftarrow{AB}	\overleftarrow{AB}	\overleftarrow{AB}	$\stackrel{\longleftarrow}{AB}$	
grad	∠ grad	grad	grad	
my long vector	my long vector	my long vector	my long vector	

\underleftharpoonup

\TestOverArrow{\underleftharpoonup}			
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
<u>v</u>	<u>~v</u>	<u>,v</u>	<u>v</u>
<u>AB</u>	AB	AB	AB
$\underline{\operatorname{grad}}$	grad	grad	grad
my long vector	my long vector	my long vector	my long vector

$14 \quad \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ }}$

\TestOverArrow{\overleftharpoondown}			
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
\overline{v}	\overline{v}	\overline{v}	\overline{v}
\overline{AB}	\overline{AB}	\overline{AB}	\overline{AB}
$\overline{\operatorname{grad}}$	grad	$\overline{\operatorname{grad}}$	$\overline{\mathrm{grad}}$
my long vector	my long vector	my long vector	my long vector

$15 \quad \verb|\underleftharpoondown|$

\TestOverArrow{\underleftharpoondown}			
\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
\overline{v}	\underline{v}	$\frac{v}{}$	<u>v</u>
AB	AB	$\stackrel{AB}{\longleftarrow}$	$\stackrel{AB}{\longleftarrow}$
grad	grad	$\stackrel{\operatorname{grad}}{\longleftarrow}$	grad
my long vector	my long vector	my long vector	my long vector

\overbar

\TestOverArrow*{\overbar}					
Test of \overbar and \overbar* macros					
\ov	\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}		
$\overline{\text{grad}}$	$\overline{\operatorname{grad}}$	$\overline{\text{grad}}$	$\overline{ ext{grad}}$		
$\overline{my\ long\ vector}$	my long vector	my long vector	my long vector		
	\overbar kerning				
$\overline{t}_{\overline{u}_{\overline{v}}} \qquad \overline{\iota}_{0} \qquad \overline{v} = \overline{v}_{x} + \overline{v}_{y} + \overline{v}_{z} = v_{x}\overline{\imath} + v_{y}\overline{\jmath} + v_{z}\overline{k}$					
\overbar* kerning					
$\overline{t}_{\overline{u}_{\overline{v}}}$ $\overline{\imath}_0$ $\overline{v} = \overline{v}_x + \overline{v}_y + \overline{v}_z = v_x \overline{\imath} + v_y \overline{\jmath} + v_z \overline{k}$					

17 \underbar

\TestOverArrow*{\ur	\TestOverArrow*{\underbar}				
Test of \u	Test of \underbar and \underbar* macros \underbar for different math styles				
\uno					
\displaystyle \textstyle \scriptstyle \scriptscriptstyle					
\underline{v}	\underline{v}	\underline{v}	<u>v</u>		
<u>AB</u>	\underline{AB}	\underline{AB}	<u>AB</u>		
$\underline{\operatorname{grad}}$	$\underline{\underline{\operatorname{grad}}}$	$\underline{\operatorname{grad}}$	$_{ m grad}$		
my long vector	my long vector	my long vector	my long vector		
	\underbar kerning				
$\underline{t}_{\underline{u}_{\underline{v}}}$ $\underline{v} = \underline{v}_x + \underline{v}_y + \underline{v}_z = v_x \underline{\imath} + v_y \underline{\jmath} + v_z \underline{k}$					
\underbar* kerning					
$\underline{t}_{\underline{u}_{\underline{v}}}$ $\underline{v} = \underline{v}_x + \underline{v}_y + \underline{v}_z = v_x \underline{\imath} + v_y \underline{\jmath} + v_z \underline{k}$					