

Test of the **overarrows** package
compatibility with **unicode-math**

Julien Labbé

July 5, 2024

Predefined commands

```

\begin{align*}
\vv{AB} & \quad \& \quad \& \quad \vec{v} & \quad \backslash\!\\
\overrightarrow{AB} & \quad \& \quad \& \quad \underrightarrow{AB} & \quad \backslash\!\\
\overleftarrow{AB} & \quad \& \quad \& \quad \underleftarrow{AB} & \quad \backslash\!\\
\overleftrightharrow{AB} & \quad \& \quad \& \quad \underleftrightharrow{AB} & \quad \backslash\!\\
\overrightharpoonup{AB} & \quad \& \quad \& \quad \underharpoonup{AB} & \quad \backslash\!\\
\overrightharpoondown{AB} & \quad \& \quad \& \quad \underharpoondown{AB} & \quad \backslash\!\\
\overleftharpoonup{AB} & \quad \& \quad \& \quad \underleftharpoonup{AB} & \quad \backslash\!\\
\overleftharpoondown{AB} & \quad \& \quad \& \quad \underleftharpoondown{AB} & \quad \backslash\!\\
\overbar{AB} & \quad \& \quad \& \quad \underbar{AB} & \quad \backslash\!\\
\end{align*}

```

\overrightarrow{AB}	\vec{v}
$\overrightarrow{\overrightarrow{AB}}$	$\overrightarrow{\overrightarrow{AB}}$
$\overleftarrow{\overrightarrow{AB}}$	$\overleftarrow{\overrightarrow{AB}}$
$\overleftrightarrow{\overrightarrow{AB}}$	$\overleftrightarrow{\overrightarrow{AB}}$
$\overrightarrow{\overleftarrow{AB}}$	$\overrightarrow{\overleftarrow{AB}}$
$\overrightarrow{\overleftrightarrow{AB}}$	$\overrightarrow{\overleftrightarrow{AB}}$
$\overleftarrow{\overleftarrow{AB}}$	$\overleftarrow{\overleftarrow{AB}}$
$\overleftarrow{\overleftrightarrow{AB}}$	$\overleftarrow{\overleftrightarrow{AB}}$
$\overrightarrow{\overrightarrow{\overrightarrow{AB}}}$	$\overrightarrow{\overrightarrow{\overrightarrow{AB}}}$

harrowextender

```
\begin{align*}
\mathtt{-} & \sim \mathtt{-} & & \& - \ \backslash
\mathtt{\backslash relbar} & \sim \mathtt{\backslash relbar} & & \& \backslash relbar \ \backslash
\mathtt{\backslash relbareda} & \sim \mathtt{\backslash relbareda} & & \& \backslash relbareda \ \backslash
\mathtt{\backslash harrowextender} & \sim \mathtt{\backslash harrowextender} & & \& \backslash harrowextender
\end{align*}
```

```

-- = --
\relbar = --
\relbareda = -
\harrowextender =
```

```
\NewOverArrowCommand{testharrowextender}{%
  middle config=harrowextender
}
\TestOverArrow{testharrowextender}
```

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

TikZ arrows

```
\NewOverArrowCommand[tikz]{tikzstandardthickness}{%
  path options={
    x=\overarrowlength, line width=\overarrowthickness
  },
  path={(0,0) -- (1,0)}, arrows={->}
}
\NewOverArrowCommand[tikz]{tikzsmallerthickness}{%
  path options={
    x=\overarrowlength, line width=\overarrowsmallerthickness,
  },
  path={(0,0) -- (1,0)}, arrows={->}
}
\begin{align*}
  \tikzstandardthickness{ABCD} & \& \\
  \scriptscriptstyle \tikzstandardthickness{ABCD} & \\
  \tikzsmallerthickness{ABCD} & \& \\
  \scriptscriptstyle \tikzsmallerthickness{ABCD} & \\
\end{align*}
```

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$