

Test of the **overarrows** package
compatibility with L^AT_EX engines

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Predefined commands

| | | | |
|--|------|------|------------------------------|
| <code>\begin{align*}</code> | | | |
| <code>\vv{AB}</code> | $\&$ | $\&$ | \vec{v} |
| <code>\overrightarrow{AB}</code> | $\&$ | $\&$ | \underrightarrow{AB} |
| <code>\overleftarrow{AB}</code> | $\&$ | $\&$ | \underleftarrow{AB} |
| <code>\overleftrightharrow{AB}</code> | $\&$ | $\&$ | $\underleftrightharrow{AB}$ |
| <code>\overrightarrowtharpoonup{AB}</code> | $\&$ | $\&$ | \underrightharpoonup{AB} |
| <code>\overrightarrowtharpoondown{AB}</code> | $\&$ | $\&$ | $\underrightharpoondown{AB}$ |
| <code>\overlefttharpoonup{AB}</code> | $\&$ | $\&$ | \underlefttharpoonup{AB} |
| <code>\overlefttharpoondown{AB}</code> | $\&$ | $\&$ | $\underlefttharpoondown{AB}$ |
| <code>\overbar{AB}</code> | $\&$ | $\&$ | \underbar{AB} |
| <code>\end{align*}</code> | | | |

| | |
|---------------------------|-----------------------------------|
| \overrightarrow{AB} | \vec{v} |
| \overrightarrow{AB} | \overrightarrow{AB} |
| \overleftarrow{AB} | \overleftarrow{AB} |
| \overleftrightarrow{AB} | \overleftrightarrow{AB} |
| \overrightarrow{AB} | $\underline{\overrightarrow{AB}}$ |
| \overline{AB} | $\overline{\overrightarrow{AB}}$ |
| \overleftarrow{AB} | $\underline{\overleftarrow{AB}}$ |
| \overline{AB} | $\overline{\overleftarrow{AB}}$ |
| \overline{AB} | \overline{AB} |

harrowextender

```

\begin{align*}
\mathtt{-} & \sim \sim & & \& - & & \backslash\backslash
\mathtt{\backslash relbar} & \sim \sim & & \& \backslash relbar & & \backslash\backslash
\mathtt{\backslash relbareda} & \sim \sim & & \& \backslash relbareda & & \backslash\backslash
\mathtt{\backslash mathrel \backslash harrowextender} & \sim \sim & & \& \backslash mathrel \backslash harrowextender & & \backslash\backslash
\mathtt{\backslash ovar@auto@middle} & \sim \sim & & \& \backslash UseName \{ ovar@auto@middle \} & & \backslash\backslash
\end{align*}

```

```

- = -
\relbar = -
\relbareda = -
\mathrel\harrowextender =
\ovar@auto@middle = -

```

```

\NewOverArrowCommand{\testharrowextender}{%
  middle config=auto
}
\TestOverArrow{\testharrowextender}

```

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

```

\NewOverArrowCommand{\useharrowextender}{%
  middle config=harrowextender
}
\TestOverArrow{\useharrowextender}

```

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

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*}
```

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$