Test of the **overarrows** package without options

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1 Loading the package without options

```latex
\usepackage{overarrows}
```

2 Tests of type `symb` with `amsmath` config

```latex
\NewOverArrowCommand{amsvector}{amsmath}
\TestOverArrow*{amsvector}
```

Test of \amsvector and \amsvector* macros

\amsvector for different math styles

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

\amsvector kerning

$$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}} \qquad \overrightarrow{\imath}_0 \qquad \overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}_y + \overrightarrow{v}_z = v_x\,\overrightarrow{\imath} + v_y\,\overrightarrow{\jmath} + v_z\,\overrightarrow{k}$$

\amsvector* kerning

$$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}} \qquad \overrightarrow{\imath}_0 \qquad \overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}_y + \overrightarrow{v}_z = v_x\,\overrightarrow{\imath} + v_y\,\overrightarrow{\jmath} + v_z\,\overrightarrow{k}$$

Test of \amsstrictvector and \amsstrictvector* macros

\amsstrictvector for different math styles

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

\amsstrictvector kerning

$$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}} \qquad \overrightarrow{\imath}_0 \qquad \overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}_y + \overrightarrow{v}_z = v_x\,\overrightarrow{\imath} + v_y\,\overrightarrow{\jmath} + v_z\,\overrightarrow{k}$$

\amsstrictvector* kerning

$$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}} \qquad \overrightarrow{\imath}_0 \qquad \overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}_y + \overrightarrow{v}_z = v_x\overrightarrow{\imath} + v_y\overrightarrow{\jmath} + v_z\overrightarrow{k}$$

3 Tests of type `symb` with `esvect` config

```
\NewOverArrowCommand{esvector}{esvect}
\TestOverArrow*{esvector}
```

Test of \esvector and \esvector* macros

\esvector for different math styles

\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
$\vec{v}$	$\vec{v}$	$\vec{v}$	$\vec{v}$
$\overrightarrow{AB}$	$\overrightarrow{AB}$	$\overrightarrow{AB}$	$\overrightarrow{AB}$
$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$
$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my\ long\ vector}$

\esvector kerning

$$\vec{t}\,\vec{u}\,\vec{v} \qquad \vec{\imath}_0 \qquad \vec{v} = \vec{v}_x + \vec{v}_y + \vec{v}_z = v_x\,\vec{\imath} + v_y\,\vec{\jmath} + v_z\,\vec{k}$$

\esvector* kerning

$$\vec{t}\vec{u}\vec{v} \qquad \vec{\imath}_0 \qquad \vec{v} = \vec{v}_x + \vec{v}_y + \vec{v}_z = v_x\,\vec{\imath} + v_y\,\vec{\jmath} + v_z\,\vec{k}$$

Test of \esstrictvector and \esstrictvector* macros

\esstrictvector for different math styles

\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
$\vec{v}$	$\vec{v}$	$\vec{v}$	$\vec{v}$
$\overrightarrow{AB}$	$\overrightarrow{AB}$	$\overrightarrow{AB}$	$\overrightarrow{AB}$
$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$	$\overrightarrow{\mathrm{grad}}$
$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my\ long\ vector}$	$\overrightarrow{my\ long\ vector}$

\esstrictvector kerning

$$\vec{t}\,\vec{u}\,\vec{v} \qquad \vec{\imath}\,_0 \qquad \vec{v} = \vec{v}_x + \vec{v}_y + \vec{v}_z = v_x\,\vec{\imath} + v_y\,\vec{\jmath} + v_z\,\vec{k}$$

\esstrictvector* kerning

$$\vec{t}\,\vec{u}\,\vec{v} \qquad \vec{\imath}_0 \qquad \vec{v} = \vec{v}_x + \vec{v}_y + \vec{v}_z = v_x\,\vec{\imath} + v_y\,\vec{\jmath} + v_z\,\vec{k}$$

4 Tests of type `symb` with options

```
\NewOverArrowCommand{testovertextarrow}{%
  min length = 30,
  space before arrow=5ex,
  space after arrow=-.5ex,
  shift left = -5,
  shift right = -5,
  start={\Leftarrow},
  trim start=5,
  middle={\Relbar},
  trim middle=5,
  end={\Rightarrow},
  trim end=5,
  detect subscripts,
}
\TestOverArrow*{testovertextarrow}
```

Test of \testovertextarrow and \testovertextarrow* macros

\testovertextarrow for different math styles

\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle

\testovertextarrow kerning

\testovertextarrow* kerning

6

5 Tests of type `picture` without options

```
\NewOverArrowCommand[picture]{picvector}{}
\TestOverArrow*{picvector}
```

<div>

Test of \picvector and \picvector* macros

\picvector for different math styles

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

\picvector kerning

$$\overrightarrow{t}\,\overrightarrow{u}\,\overrightarrow{v} \qquad \overrightarrow{i}\,_0 \qquad \overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}_y + \overrightarrow{v}_z = v_x\,\overrightarrow{i} + v_y\,\overrightarrow{j} + v_z\,\overrightarrow{k}$$

\picvector* kerning

$$\overrightarrow{t}\overrightarrow{u}\overrightarrow{v} \qquad \overrightarrow{i}_0 \qquad \overrightarrow{v} = \overrightarrow{v_x} + \overrightarrow{v_y} + \overrightarrow{v_z} = v_x\,\overrightarrow{i} + v_y\,\overrightarrow{j} + v_z\,\overrightarrow{k}$$

</div>

6 Tests of type `picture` with options

```
\NewOverArrowCommand[picture]{thinnerpicvector}{%
  thinner,
}
\NewOverArrowCommand[picture]{thickerpicvector}{%
  line thickness=2\overarrowthickness,
}

$$ \thinnerpicvector{v} \qquad \picvector{v} \qquad \thickerpicvector{v} $$
```

$$\overrightarrow{v} \qquad \overrightarrow{v} \qquad \overrightarrow{v}$$
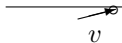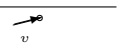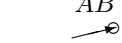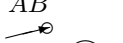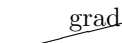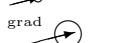
```
\NewOverArrowCommand[picture]{testoverpicarrow}{%
  shift left=2,
  shift right=-5,
  min length=30,
  geometry={(\overarrowlength,2ex)(0,-1ex)},
  picture command={%
    \put(0.8\overarrowlength,0.2\overarrowlength){%
      \circle{0.2\overarrowlength}
    }%
    \put(0,0){\vector(4,1){0.85\overarrowlength}}}},%
}
\TestOverArrow*{testoverpicarrow}
```


Test of \testoverpicarrow and \testoverpicarrow* macros

\testoverpicarrow for different math styles

\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
v	v	v	v
AB	AB	AB	AB
grad	grad	grad	grad
my long vector	*my long vector*	*my long vector*	*my long vector*

\testoverpicarrow kerning

$$t \quad u \quad v \qquad \imath \ 0 \qquad v \ = \ v \ _x + \ v \ _y + \ v \ _z = v_x \ \imath \ + v_y \ \jmath \ + v_z \ k$$

\testoverpicarrow* kerning

$$t \quad u \quad v \qquad \imath_0 \qquad v = \ v_x + \ v_y + \ v_z = v_x \ \imath + v_y \ \jmath + v_z \ k$$