Test of the **overarrows** package
with all options

Julien Labbé

April 30, 2025

1 Loading the package with many options

```
\usepackage[%
  old-arrows, esvecth, esvecta,
  tikz, pstricks, pstarrows,
  subscripts, allcommands, debug
]{overarrows}
```

2 Options `old-arrows` and `allcommands`

```
\TestOverArrow*{\overrightarrow}
```

Test of \overrightarrow and \overrightarrow* macros

\overrightarrow for different math styles

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

\overrightarrow kerning

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

\overrightarrow* kerning

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

```
\NewOverArrowCommand{\amsvec}{amsmath, end={\rightarrow}, shift left=2}
\TestOverArrow*{\amsvec}
```

Test of \amsvec and \amsvec* macros

\amsvec for different math styles

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

\amsvec kerning

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

\amsvec* kerning

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

3 Option `esveca`

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

Test of \esvec and \esvec* macros

\esvec for different math styles

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

\esvec kerning

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

\esvec* 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   Option `tikz`

```
\NewOverArrowCommand[tikz]{\tikzvec}{}
\TestOverArrow*{\tikzvec}
```

Test of \tikzvec and \tikzvec* macros

\tikzvec for different math styles

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

\tikzvec kerning

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

\tikzvec* kerning

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

```
\NewOverArrowCommand[tikz]{\tikzvec}{}
\NewOverArrowCommand[tikz]{\thinnertikzvec}{%
  thinner,
}
\NewOverArrowCommand[tikz]{\thickertikzvec}{%
  line thickness={2\overarrowthickness},
}

$$ \thinnertikzvec{v} \qquad \tikzvec{v} \qquad \thickertikzvec{v} $$
```

$$\vec{v} \qquad \vec{v} \qquad \vec{v}$$

```
\NewOverArrowCommand[tikz]{\tikzoptvec}{%
  tikz options={line width=2\overarrowthickness},
  path options={arrows={<->}},
  path={(0,0)--(0.5,0.05)},
}
\TestOverArrow*{\tikzoptvec}
```

Test of \tikzoptvec and \tikzoptvec* macros

\tikzoptvec for different math styles

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

\tikzoptvec kerning

$$\overleftrightarrow{t}\ \overleftrightarrow{u}\ \overleftrightarrow{v} \qquad \overleftrightarrow{\imath_0} \qquad \overleftrightarrow{v} = \overleftrightarrow{v_x} + \overleftrightarrow{v_y} + \overleftrightarrow{v_z} = v_x\overleftrightarrow{\imath} + v_y\overleftrightarrow{\jmath} + v_z\overleftrightarrow{k}$$

\tikzoptvec* kerning

$$\overleftrightarrow{t}\ \overleftrightarrow{u}\ \overleftrightarrow{v} \qquad \overleftrightarrow{\imath_0} \qquad \overleftrightarrow{v} = \overleftrightarrow{v_x} + \overleftrightarrow{v_y} + \overleftrightarrow{v_z} = v_x\overleftrightarrow{\imath} + v_y\overleftrightarrow{\jmath} + v_z\overleftrightarrow{k}$$

```
\NewOverArrowCommand[tikz]{\tikzaddoptvec}{%
  add tikz options={blue},
  add path options={thick},
  arrows={->>}, min length=20,
}
\TestOverArrow*{\tikzaddoptvec}
```

Test of \tikzaddoptvec and \tikzaddoptvec* macros

\tikzaddoptvec for different math styles

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

\tikzaddoptvec kerning

$$\overrightarrow{t} \quad \overrightarrow{u'} \quad \overrightarrow{v} \qquad \overrightarrow{t_0} \qquad \overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}_y + \overrightarrow{v}_z = v_x \overrightarrow{\imath} + v_y \overrightarrow{\jmath} + v_z \overrightarrow{k}$$

\tikzaddoptvec* kerning

$$\overrightarrow{t} \quad \overrightarrow{u'} \quad \overrightarrow{v} \qquad \overrightarrow{t_0} \qquad \overrightarrow{v} = \overrightarrow{v}_x + \overrightarrow{v}_y + \overrightarrow{v}_z = v_x \overrightarrow{\imath} + v_y \overrightarrow{\jmath} + v_z \overrightarrow{k}$$
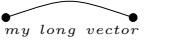
```
\NewOverArrowCommand[tikz]{\tikcodevec}{%
  tikz command={\draw[Circle-Circle](0,0).. controls (0.5,0.3).. (1,0);},
  shift left=-2, space after arrow=0.2ex,
}
\TestOverArrow*{\tikcodevec}
```

Test of \tikcodevec and \tikcodevec* macros

\tikcodevec for different math styles

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

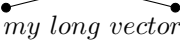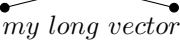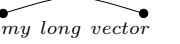### \tikcodevec kerning

$$t_{\overset{\frown}{\underset{\overset{\frown}{u}}{\overset{\frown}{v}}}} \qquad \overset{\frown}{\imath}_0 \qquad \overset{\frown}{v} = \overset{\frown}{v}_x + \overset{\frown}{v}_y + \overset{\frown}{v}_z = v_x \overset{\frown}{\imath} + v_y \overset{\frown}{\jmath} + v_z \overset{\frown}{k}$$

\tikcodevec* kerning

$$t_{\overset{\frown}{\underset{\overset{\frown}{u}}{\overset{\frown}{v}}}} \qquad \overset{\frown}{\imath}_0 \qquad \overset{\frown}{v} = \overset{\frown}{v}_x + \overset{\frown}{v}_y + \overset{\frown}{v}_z = v_x \overset{\frown}{\imath} + v_y \overset{\frown}{\jmath} + v_z \overset{\frown}{k}$$

5 Option `pstricks`

```
\NewOverArrowCommand[pstricks]{\pstvec}{}
\TestOverArrow*{\pstvec}
```

Test of \pstvec and \pstvec* macros

\pstvec for different math styles

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

\pstvec kerning

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

\pstvec* kerning

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

```
\NewOverArrowCommand[pstricks]{\pstTbarandarrows}{arrow={|<->|}, center arrow}
\TestOverArrow*{\pstTbarandarrows}
```

Test of \pstTbarandarrows and \pstTbarandarrows* macros

\pstTbarandarrows for different math styles

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

\pstTbarandarrows kerning

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

\pstTbarandarrows* kerning

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

```
\NewOverArrowCommand[pstricks]{\pstsmallbluearrow}{
  psset = {arrowscale=0.5, arrowinset=0, linecolor=blue},
  thinner,
}
\TestOverArrow*{\pstsmallbluearrow}
```

Test of \pstsmallbluearrow and \pstsmallbluearrow* macros

\pstsmallbluearrow for different math styles

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

\pstsmallbluearrow kerning

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

\pstsmallbluearrow* kerning

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

```
\NewOverArrowCommand[pstricks]{\psellipticarrow}{
  pstricks command={%
    \psellipticarcn{->}%
    (0.5\overarrowlength,0.2\overarrowlength)%
    (0.5\overarrowlength,0.2\overarrowlength)%
    {170}{10}
  },
  geometry={(0,0.2\overarrowlength)(\overarrowlength,0.4\overarrowlength)},
  center arrow,
}
\TestOverArrow*{\psellipticarrow}
```

Test of \psellipticarrow and \psellipticarrow* macros

\psellipticarrow for different math styles

\displaystyle	\textstyle	\scriptstyle	\scriptscriptstyle
$\overset{\frown}{v}$	$\overset{\frown}{v}$	$\overset{\frown}{v}$	$\overset{\frown}{v}$
$\overset{\frown}{AB}$	$\overset{\frown}{AB}$	$\overset{\frown}{AB}$	$\overset{\frown}{AB}$
grad	grad	grad	grad
my long vector	*my long vector*	*my long vector*	*my long vector*

\psellipticarrow kerning

$$\overset{\frown}{b_{\overset{\frown}{w}\overset{\frown}{v}}} \qquad \overset{\frown}{\imath}_0 \qquad \overset{\frown}{v} = \overset{\frown}{v}_x + \overset{\frown}{v}_y + \overset{\frown}{v}_z = v_x\overset{\frown}{\imath} + v_y\overset{\frown}{\jmath} + v_z\overset{\frown}{k}$$

\psellipticarrow* kerning

$$\overset{\frown}{b_{\overset{\frown}{w}\overset{\frown}{v}}} \qquad \overset{\frown}{\imath}_0 \qquad \overset{\frown}{v} = \overset{\frown}{v}_x + \overset{\frown}{v}_y + \overset{\frown}{v}_z = v_x\overset{\frown}{\imath} + v_y\overset{\frown}{\jmath} + v_z\overset{\frown}{k}$$

6 Option `pstarrows`

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

Test of \picvec and \picvec* macros

\picvec for different math styles

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

\picvec kerning

$$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}} \qquad \overrightarrow{\imath_0} \qquad \overrightarrow{v} = \overrightarrow{v_x} + \overrightarrow{v_y} + \overrightarrow{v_z} = v_x\,\overrightarrow{\imath} + v_y\,\overrightarrow{\jmath} + v_z\,\overrightarrow{k}$$

\picvec* kerning

$$\overrightarrow{t}_{\overrightarrow{u}_{\overrightarrow{v}}} \qquad \overrightarrow{\imath_0} \qquad \overrightarrow{v}= \overrightarrow{v_x} + \overrightarrow{v_y} + \overrightarrow{v_z} = v_x\,\overrightarrow{\imath}+ v_y\,\overrightarrow{\jmath}+ v_z\,\overrightarrow{k}$$

7 Option `subscripts`

```
\NewOverArrowCommand{\subvec}{min length=30}
\NewOverArrowCommand{\nosubvec}{min length=30, detect subscripts=false}
\TestOverArrow*{\subvec}
\TestOverArrow*{\nosubvec}
```

Test of \subvec and \subvec* macros

\subvec for different math styles

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

\subvec kerning

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

\subvec* 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 \nosubvec and \nosubvec* macros

\nosubvec for different math styles

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

\nosubvec kerning

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

\nosubvec* kerning

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