

Typesetting vectors with beautiful arrow with LaTeX 2_ε

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Abstract

The package `esvect.sty` allows typesetting vectors. Several arrows are available.

1 Installation

Run LaTeX 2_ε on `esvect.ins` to generate files:

1. Put `esvect.sty` on TEXINPUT.
2. Put `uesvect.fd` on TEXINPUT, for example with `esvect.sty`.
3. Put `vect5.mf`, `vect6.mf`, `vect7.mf`, `vect8.mf`, `vect9.mf` and `vect10.mf` on MFINPUT.

Run METAFONT on *.mf file to generate *.tfm files. For example:

```
mf \mode=localfont; input vect5.mf
```

Put `vect5.tfm`, ..., `vect10.tfm` on the right place.

2 Using esvect

Load the package with `\usepackage{esvect}`, and enjoy!

To obtain a vector, use the command `\vv{arg}`.

For example, `$$\vv{E}$$`, `$$\vv{AB}$$`, `$$\vv{\imath}$$` and `$$\vv{u}$$` give \vec{E} , \overrightarrow{AB} , $\vec{\imath}$ and \vec{u} .

A star version `\vv*{arg}{ind}` is available to typeset correctly a vector with a subscript: `$$\vv*{e}{r}$$` and `$$\vv*{L}{\Delta}$$` give \vec{e}_r and \vec{L}_Δ .

Height different arrows are available. You have to select one using an option when you load the package: `\usepackage[a]{esvect}`, ..., `\usepackage[h]{esvect}`.

The option `d` is selected by default.

Corresponding arrows are:

option	a	b	c	d	e	f	g	h
flèche	→	→	→	→	→	→	→	→

The size of the arrow is automatically calculated according to the math environment:

`$$\vv{E}_{\vv{u}_{\vv{u}}}$` gives

$$\vec{E}_{\vec{u}_{\vec{u}}}$$