

# Sneaker

A configurable TikZ sneaker package

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[github.com/Aargon06/sneaker](https://github.com/Aargon06/sneaker)

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## 1 Introduction

What started as a small visual gimmick for the slides of my Bachelor’s thesis, a sneaker as a feature model to illustrate variability and configuration, gradually grew into something more elaborate. Every new talk added another option: laces, velcro, patterns, wheels. At some point the `.sty` file had taken on a life of its own, and it felt wrong to keep it to myself. The `sneaker` package is the result of that growth, cleaned up and made available so that anyone can drop a configurable sneaker into their  $\text{\LaTeX}$  document with a single line.

The package provides a single highly configurable TikZ `pic` that draws a stylised sneaker in isometric-like perspective. The shoe is customised via a key–value interface: colours, laces, velcro straps, eyelets, decorative patterns, stitching detail, and rolling wheels are all available as simple options.

## 2 Requirements

`sneaker` requires a standard L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> installation with the following packages, all of which ship with every major T<sub>E</sub>X distribution (TeX Live, MiKTeX):

- `tikz` (part of the `pgf` bundle)
- TikZ library `calc`
- `xcolor` (loaded automatically via TikZ)

## 3 Usage

Load the package in the preamble and use the `pic` inside any `tikzpicture` environment:

```

\usepackage{sneaker}

\begin{tikzpicture}
  \pic{sneaker={<options>}};
\end{tikzpicture}
```

All options are passed as a comma-separated key–value list inside `sneaker={...}`. Passing no options gives a plain blue sneaker.

## 4 Options Reference

### 4.1 Main colour

Key	Description
<code>color=&lt;colour&gt;</code>	Sets the base colour of the whole shoe. Accepts any colour expression valid for <code>\colorlet</code> , e.g. <code>red</code> , <code>blue!40!black</code> , <code>teal</code> . Default: <code>blue</code> .

### 4.2 Feature flags

All flags default to `false`. Set them to `true` to enable the feature.

Key	Description
<code>laces</code>	Draw shoelaces and a bow. Requires <code>eyelets=true</code> to look correct.
<code>velcro</code>	Draw velcro strap(s). When combined with <code>laces</code> , a single strap is drawn across the lace zone; standalone gives two straps.
<code>eyelets</code>	Draw metal eyelets along the lace row.
<code>stitching</code>	Add dashed stitching lines on the upper and sole.
<code>rolls</code>	Add three inline-skate-style wheels under the sole.

### 4.3 Pattern

Key	Description
<code>pattern</code>	Enable the side-panel decoration.
<code>pattern type=bolt</code>	Lightning-bolt shape (default).
<code>pattern type=star</code>	Five-pointed star.
<code>bolt</code>	Shorthand for <code>pattern=true, pattern type=bolt</code> .
<code>star</code>	Shorthand for <code>pattern=true, pattern type=star</code> .

### 4.4 Individual component colours

Each key accepts any xcolor-compatible colour expression.

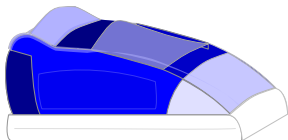
Key	Affected part
<code>pattern color=&lt;colour&gt;</code>	Pattern decoration. Default: white.
<code>tongue color=&lt;colour&gt;</code>	Tongue of the shoe. Default: tinted main colour.
<code>lace color=&lt;colour&gt;</code>	Laces and bow. Default: off-white.
<code>sole color=&lt;colour&gt;</code>	Sole area. Default: white.
<code>toe cap color=&lt;colour&gt;</code>	Toe-cap panel. Default: light tinted main colour.

## 5 Examples

### 5.1 Default sneaker

No options plain blue sneaker, the package baseline.

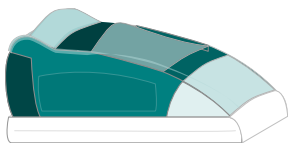
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={}};
\end{tikzpicture}
```



### 5.2 Colour

The entire shoe is tinted from a single color key.

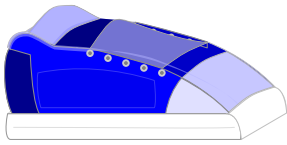
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={color=teal}};
\end{tikzpicture}
```



### 5.3 Eyelets

Metal eyelets are placed along the lace row.

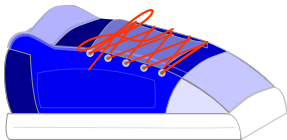
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={eyelets=true}};
\end{tikzpicture}
```



#### 5.4 Laces

Shoelaces with a bow. Combine with `eyelets=true` for the intended look.

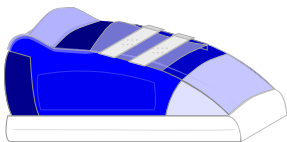
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={laces=true, eyelets=true,
    lace color=red!60!orange}};
\end{tikzpicture}
```



#### 5.5 Velcro

Two velcro straps, standalone (without laces).

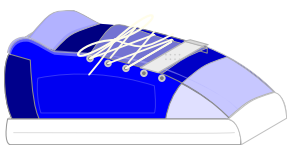
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={velcro=true}};
\end{tikzpicture}
```



#### 5.6 Laces combined with Velcro

When both are active, velcro appears as a single strap across the lace zone.

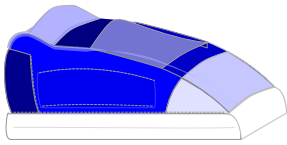
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={laces=true, eyelets=true,
    velcro=true}};
\end{tikzpicture}
```



#### 5.7 Stitching

Dashed seam lines on the upper panel and sole.

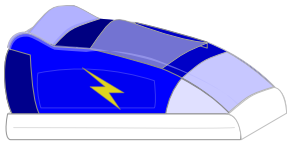
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={stitching=true}};
\end{tikzpicture}
```



## 5.8 Pattern bolt

A lightning-bolt decoration on the side panel.

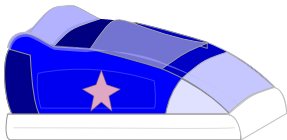
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={bolt, pattern color=yellow}};
\end{tikzpicture}
```



## 5.9 Pattern star

A star decoration on the side panel.

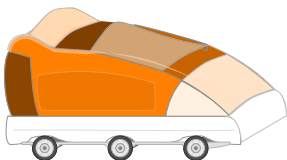
```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={star, pattern color=pink}};
\end{tikzpicture}
```



## 5.10 Rolls

Three inline-skate-style wheels are added under the sole.

```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={rolls=true, color=orange}};
\end{tikzpicture}
```

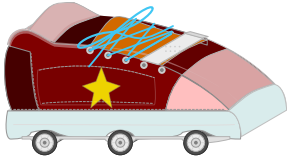


## 5.11 Fully loaded all options at once

```
\begin{tikzpicture}[scale=0.6]
  \pic{sneaker={color=red!50!black, star,
                pattern color=yellow, tongue
                color=orange,
```

```
lace color=cyan!60, sole
  color=teal!15,
toe cap color=pink, laces=
  true,
eyelets=true, stitching=true,
velcro=true, rolls=true}};

\end{tikzpicture}
```



## 6 License

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**Disclaimer.** The sneaker design in this package is entirely fictional and created from scratch. It is not based on, derived from, or intended to resemble any real product, brand, or trademark. Any similarity to existing footwear designs is purely coincidental.