

# The TikZlings package

drawing animals and beings in TikZ

samcarter

<https://github.com/samcarter/tikzlings>

<https://www.ctan.org/pkg/tikzlings>

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## Introduction

---

The TikZlings are a collection of little animals (and beings) drawn in TikZ. It is the next evolutionary phase of the TikZmarmots package extending it with further animals (and beings) and also adding the ability to natively use many of the accessories known from the TikZducks package.

This package is work in progress, therefore I would be happy to hear your feedback and ideas how to improve the package. The head version of the source code can be found on [github.com/samcarter/tikzlings](https://github.com/samcarter/tikzlings), including a bug tracker – please make constructive use of it! If you seek any other assistance (not bug reports/feature requests), I suggest asking a question at [topanswers.xyz/tex](https://topanswers.xyz/tex). A more stable package version can be found on CTAN (<https://www.ctan.org/pkg/tikzlings>) and is included in both MiKTeX and T<sub>E</sub>XLive as TikZlings.

## Acknowledgements

I'd like to thank the friendly and helpful community of T<sub>E</sub>X users for their suggestions, feedback and help to create this package and find a suitable name for it. As a thank you all the TikZlings have a name which is in some way or another connected to the users of T<sub>E</sub>X.

## License

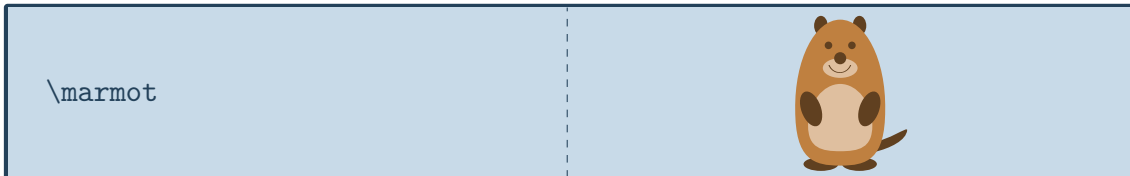
Copyright © samcarter. Permission is granted to copy, distribute and/or modify this software under the terms of the LaTeX project public licence, version 1.3c or later <http://www.latex-project.org/lppl.txt>.



## The TikZlings

The TikZlings package is a collection of packages. It can either be loaded as a whole with `\usepackage{tikzlings}` or the subpackages containing the individual animals (and beings) can be used separately, e.g. by loading `\usepackage{tikzlings-marmots}`.

The basic usage is the same for all animals (and beings). Inside a `tikzpicture`, the TikZlings can be added via `\<name_of_the_tikzling>`. For example



will produce a marmot. All usual TikZ and pgf keys can be passed as optional argument to change the appearance. For example scaling and rotating the TikZlings can be done by

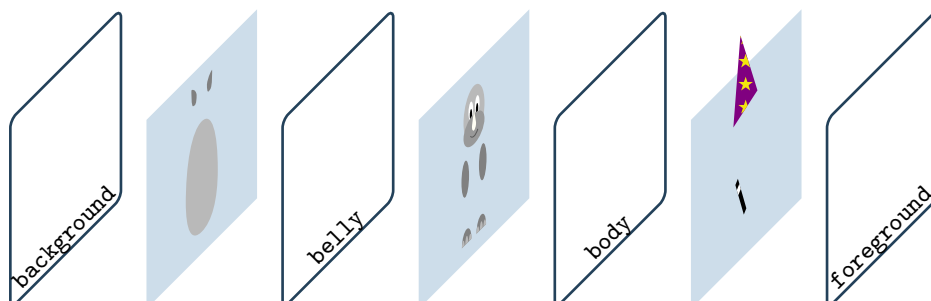


In addition to the standard options provided by TikZ each TikZlings also comes with some additional options which are listed in the following sections. If these additional options consist of multiple words they are available both with and without spaces, for example `askphil` and `ask phil` will be treated as the same.

To make customisation of the TikZlings easier, some hooks are provided, which can be redefined by the user in order to add commands at specific layers:


- `\<name_of_the_tikzling>hookbackground`
- `\<name_of_the_tikzling>hookbelly`
- `\<name_of_the_tikzling>hookbody`
- `\<name_of_the_tikzling>hookforeground`

With regard to the individual components of the TikZlings, they are located in the following z order:



In addition the hooks `\tikzlinghookbackground`, `\tikzlinghookbelly`, `\tikzlinghookbody` and `\tikzlinghookforeground` are available and will effect all TikZlings.

A short example how the hooks can be used:

<pre> \newcommand{\mousehookbelly}{%   \fill[red!80!black]   (0.55, 1.35) -- (0.65, 0.3) --   (-0.65, 0.3) -- (-0.55, 1.35)   -- (0.0, 0.9) -- cycle; } \mouse </pre>	
---	---

### List of all TikZlings:

Anteater . . . . .	4
Bear . . . . .	5
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## Peter, the anteater

---

### Package name

```
\usepackage{tikzlings-anteaters}
```

### Basic Usage

```
\anteater
```



### Options

The basic anteater can be modified by changing its colour:

```
\anteater[body=blue]
```



To view the anteater from behind:

```
\anteater[back]
```



The key `3D` will make the anteater 3-dimensional:

```
\anteater[3D]
```



## Bär, the teddy bear

---

If you look very closely at the group picture in TUG goes to Rio you can spot the real Bär in it

### Package name

```
\usepackage{tikzlings-bears}
```

### Basic Usage

```
\bear
```



### Options

The basic teddy bear can be modified by changing its colour:

```
\bear [body=blue]
```



To view the teddy bear from behind:

```
\bear [back]
```



The key **3D** will make the teddy bear 3-dimensional:

```
\bear [3D]
```



## Extension

The Bär and Ulrike Fischer wrote the fantastic `bearwear` package, that provides many different clothing options for the TikZbears. All the other TikZlings admire them for the nice clothing!

A short example:

```
%\usepackage{bearwear}
\bear
\bearwear[
  long sleeves,
  shirt=red!80!black
]
```



Many more options and examples can be found in the package documentation <https://ctan.org/pkg/bearwear>.



# Beeing, the bee

---

The bee was kindly contributed by @marmot

## Package name

```
\usepackage{tikzlings-bees}
```

## Basic Usage

```
\bee
```



## Options

The basic bee can be modified by changing its colour:

```
\bee[body=blue]
```



In addition to the colour of the body, the colour of various body parts can be adjusted:

```
\bee[antennas=red]
```



```
\bee[eye=red]
```



```
\bee[mouth=red]
```



```
\bee[wings=red]
```



```
\bee[hands=red]
```



```
\bee[stripes=red]
```



To view the bee from behind:

```
\bee[back]
```



The key `3D` will make the bee 3-dimensional:

```
\bee[3D]
```





# MisTikzelees, the cat

---

*Named after the worlds best singing cat*

## Package name

```
\usepackage{tikzlings-cats}
```

## Basic Usage

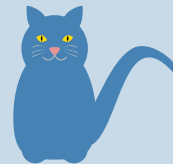
```
\cat
```



## Options

The basic cat can be modified by changing its colour:

```
\cat [body=blue]
```



In addition to the colour of the body, the colour of various body parts can be adjusted:

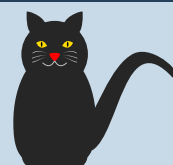
```
\cat [eyes=green]
```

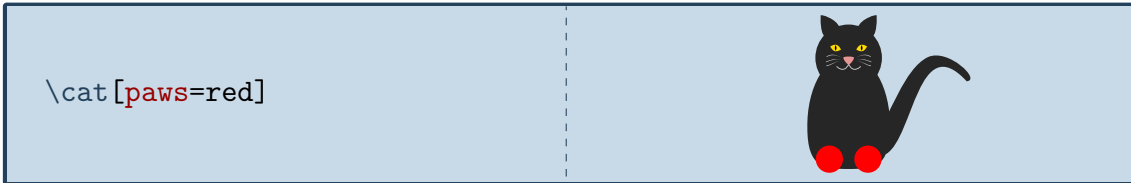
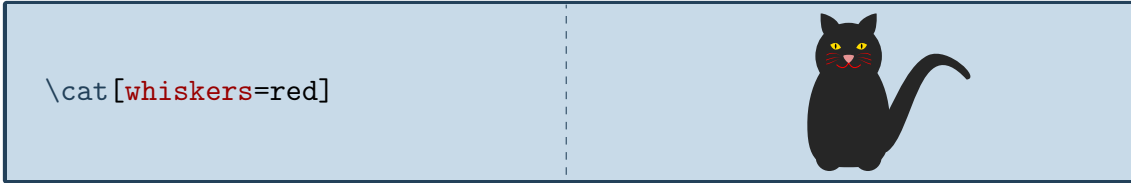


```
\cat [pupil=red]
```

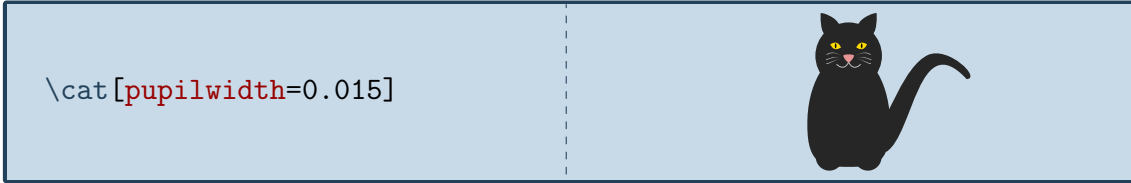


```
\cat [nose=red]
```





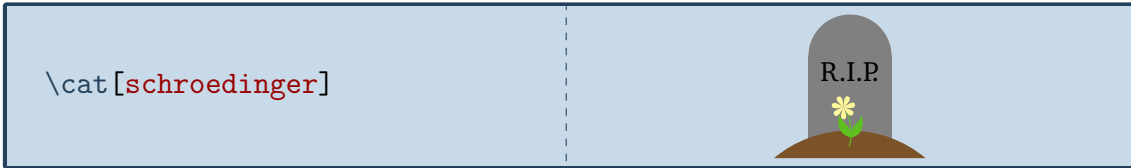
The shape of the **pupil** can be changed with the `pupilwidth` option:



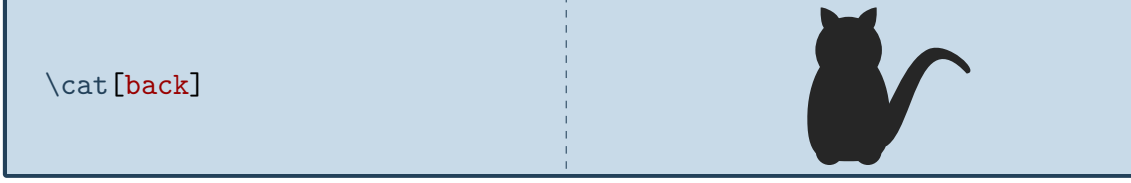
Additionally several predefined widths exist:



There is also the special option `schroedinger`. This cat is both alive and dead as long as you did not compile your document. Be prepared for a possibly disturbing scene when you open the pdf, this option is not suited for sensitive TikZlings.



To view the cat from behind:



Finally the key `3D` will make the cat 3-dimensional:

\cat[3D]



## 007, the coati

---

Named after a coati living in the zoo of Mönchengladbach

### Package name

```
\usepackage{tikzlings-coatis}
```

### Basic Usage

```
\coati
```



### Options

The basic coati can be modified by changing its colour:

```
\coati[body=blue]
```



The head of the coati can be rotated, but please don't overdo this, otherwise his neck might break!

```
\coati[rotatehead=-15]
```



For the head an alternative sideways facing head is available. It can be combined with the `rotatehead` option.

```
\coati[sideward]
```



To view the coati from behind:



```
\coati[back]
```



Finally the key **3D** will make the coati 3-dimensional:

```
\coati[3D]
```



## Sieglinde, the hippo

---

*For the winner of the 2019 Groundhog Challenge*

### Package name

```
\usepackage{tikzlings-hippos}
```

### Basic Usage

```
\hippo
```



### Options

The basic hippo can be modified by changing its colour:

```
\hippo[body=blue]
```



The hippo can also do its nails:

```
\hippo[toes=red]
```



To view the hippo from behind:

```
\hippo[back]
```



The key `3D` will make the hippo 3-dimensional:

\hippo[3D]



## Will, the koala

---

The koala was generously contributed by @marmot and is named in honour of a  $\text{\TeX}$  developer from Down Under

### Package name

```
\usepackage{tikzlings-koalas}
```

### Basic Usage

```
\koala
```



### Options

The basic koala can be modified by changing its colour:

```
\koala[body=blue]
```



It can also blush

```
\koala[blush]
```



and if tired, it is going to take a nap:

```
\koala[sleeping]
```



To view the koala from behind:



```
\koala[back]
```



Finally the key **3D** will make the koala 3-dimensional:

```
\koala[3D]
```



## Phil, the marmot

---

*Phil got his name from Punxsutawney Phil, the famous weather forecasting groundhog*

### Package name

```
\usepackage{tikzlings-marmots}
```

### Basic Usage

```
\marmot
```



### Options

The basic marmot can be modified by changing its colour:

```
\marmot [body=blue]
```



It can also blush

```
\marmot [blush]
```



and whiskers can be added:

```
\marmot [whiskers=gray]
```



Some marmots even show their chisel teeth:

```
\marmot[teeth=white]
```



or can cast a shadow:

```
\marmot[shadow]
```



This ability is important if you want to ask Punxsutawney Phil<sup>1</sup> on Groundhog Day how the weather is going to be. With a probability derived from the statistics of 120 Groundhog Days<sup>2</sup> the option `askphil` might or might not result in a shadow.

```
\marmot[askphil]
```



If a good weather prognosis is derived, the happy marmot can dance by lifting up its left and right foot:

```
\marmot[leftstep]  
\marmot[rightstep,xshift=2cm]
```



To view the marmot from behind:

```
\marmot[back]
```



Finally the key `3D` will make the marmot 3-dimensional:

```
\marmot[3D]
```



<sup>1</sup> [https://en.wikipedia.org/wiki/Punxsutawney\\_Phil](https://en.wikipedia.org/wiki/Punxsutawney_Phil)

<sup>2</sup> <https://www.livescience.com/32974-punxsutawney-phil-weather-prediction-accuracy.html>

## Wilhelm, the mole

---

The mole was added in celebration of the international mole day and is named after the chemist Wilhelm Ostwald

### Package name

```
\usepackage{tikzlings-moles}
```

### Basic Usage

**Attention:** In contrast to the other TikZlings the macro name is the plural form to avoid conflicts with `siunitx` and similar packages.

```
\moles
```



### Options

The basic mole can be modified by changing its colour:

```
\moles [body=blue]
```



In addition to the colour of the body, the colour of various body parts can be adjusted:

```
\moles [muzzle=red]
```



```
\moles [hands=red]
```



```
\moles[feet=red]
```



To view the mole from behind:

```
\moles[back]
```



The key `3D` will make the mole 3-dimensional:

```
\moles[3D]
```



## Tokz, the mouse

---

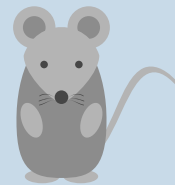
The idea for the mouse came from an Italian  $\text{\TeX}$  user – Tokz is a combination of the Italian word for mouse and TikZ

### Package name

```
\usepackage{tikzlings-mice}
```

### Basic Usage

```
\mouse
```



### Options

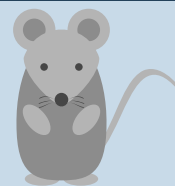
The basic mouse can be modified by changing its colour:

```
\mouse [body=blue]
```



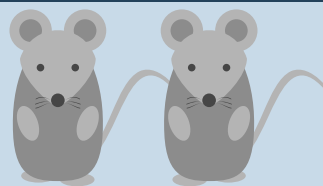
The rotation angle of its arms can be adjusted:

```
\mouse [rotatearms=40]
```

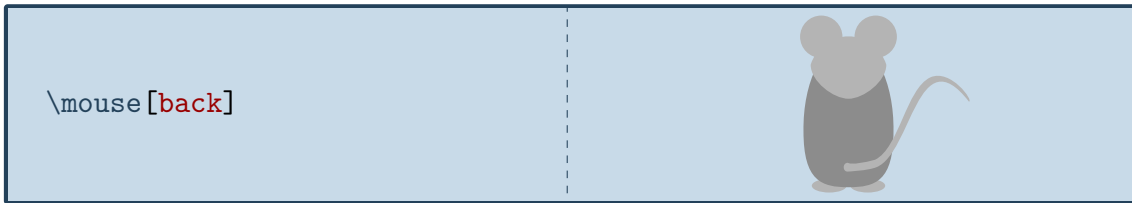


And the mouse can lift its legs:

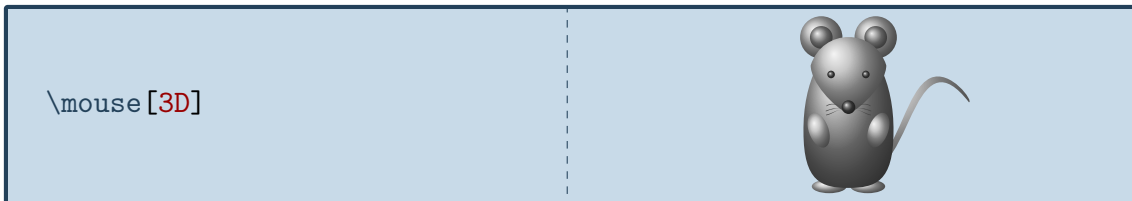
```
\mouse [leftstep]  
\mouse [rightstep, xshift=2cm]
```



To view the mouse from behind:



The key `3D` will make the mouse 3-dimensional:



## Jake, the owl

---

The owl Jake was inspired by the avatar of one of the world's top TikZperts

### Package name

```
\usepackage{tikzlings-owls}
```

### Basic Usage

```
\owl
```



### Options

The basic owl can be modified by changing its colour:

```
\owl[body=blue]
```



In addition to the colour of the body, the colour of various body parts can be adjusted:

```
\owl[eye=red]
```



```
\owl[pupil=red]
```



```
\owl[bill=red]
```





```
\owl[feet=red]
```



To view the owl from behind:

```
\owl[back]
```



Finally the key **3D** will make the owl 3-dimensional:

```
\owl[3D]
```



## ..., the panda

---

....

### Package name

```
\usepackage{tikzlings-pandas}
```

### Basic Usage

```
\panda
```



### Options

The basic panda can be modified by changing its colour:

```
\panda[body=blue]
```



To view the panda from behind:

```
\panda[back]
```



The key **3D** will make the panda 3-dimensional:

```
\panda[3D]
```



## Tux, the penguin

---

*Dedicated to the Linux mascot*

### Package name

```
\usepackage{tikzlings-penguins}
```

### Basic Usage

```
\penguin
```



### Options

The basic penguin can be modified by changing its colour:

```
\penguin[body=blue]
```



In addition to the colour of the body, the colour of various body parts can be adjusted:

```
\penguin[eye=red]
```



```
\penguin[pupil=red]
```



```
\penguin[bill=red]
```



```
\penguin[belly=red]
```



```
\penguin[feet=red]
```



To view the penguin from behind:

```
\penguin[back]
```



Finally the key `3D` will make the penguin 3-dimensional:

```
\penguin[3D]
```



## Ms Piggy, the pig

---

Added on February 5th, 2019 to commemorate the Chinese year of the pig

### Package name

```
\usepackage{tikzlings-pigs}
```

### Basic Usage

```
\pig
```



### Options

The basic pig can be modified by changing its colour:

```
\pig[body=blue]
```



To view the pig from behind:

```
\pig[back]
```



The key `3D` will make the pig 3-dimensional:

```
\pig[3D]
```



## Dürer, the rhino

---

*Named after Albert Dürer who painted an amazing rhino merely based on stories*

### Package name

```
\usepackage{tikzlings-rhinos}
```

### Basic Usage

```
\rhino
```



### Options

The basic rhino can be modified by changing its colour:

```
\rhino[body=blue]
```



The hippo can also do its nails:

```
\rhino[toes=red]
```



To view the rhino from behind:

```
\rhino[back]
```



The key **3D** will make the rhino 3-dimensional:



`\rhino[3D]`



## Riley, the sloth

---

*One of good souls behind the TugBoat once met a sloth called Riley*

### Package name

```
\usepackage{tikzlings-sloths}
```

### Basic Usage

```
\sloth
```



### Options

The basic sloth can be modified by changing its colour:

```
\sloth[body=blue]
```



If tired, the sloth can take a nap:

```
\sloth[sleeping]
```



To view the sloth from behind:

```
\sloth[back]
```



Finally the key **3D** will make the sloth 3-dimensional:





```
\sloth[3D]
```



## Ratatosk, the squirrel

---

*named after the squirrel from Norse mythology who climbs around Yggdrasil*

### Package name

```
\usepackage{tikzlings-squirrels}
```

### Basic Usage

```
\squirrel
```



### Options

The basic squirrel can be modified by changing its colour:

```
\squirrel[body=blue]
```



To view the squirrel from behind:

```
\squirrel[back]
```



Finally the key **3D** will make the squirrel 3-dimensional:

```
\squirrel[3D]
```



## Yuki, the snowman

---

*Yuki is the transcription of the Japanese word for snow*

### Package name

```
\usepackage{tikzlings-snowmans}
```

### Basic Usage

```
\snowman
```



### Options

The basic snowman can be modified by changing its colour:

```
\snowman[body=blue]
```



In addition to the colour of the body, the colour of various body parts can be adjusted:

```
\snowman[eye=red]
```



```
\snowman[nose=red]
```



```
\snowman[mouth=red]
```



```
\snowman[buttons=red]
```



The biggest enemy of the snowman are raising temperatures:

```
\snowman[globalwarming,tophat]
```



To view the snowman from behind:

```
\snowman[back]
```



Finally the key **3D** will make the snowman 3-dimensional:

```
\snowman[3D]
```



## ... , the TikZling

---

The inventor of the word TikZlings has yet to come up with a name for the TikZling

### Package name

```
\usepackage{tikzlings}
```

### Basic Usage

```
\tikzling
```



### Options

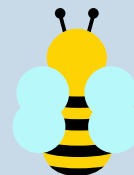
Only options common for all TikZlings are supported for the `\tikzling`. These are the ability to change the body colour

```
\tikzling[body=blue]
```



to view the TikZlings from behind

```
\tikzling[back]
```



and the `3D` key, which will make the TikZlings 3-dimensional:

```
\tikzling[3D]
```



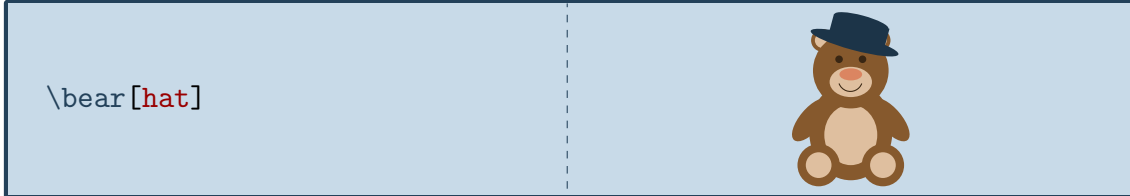
If an option of a specific tikzlings is used (for example `sleeping` which only the koala can do) this only works if you are lucky and the koala is drawn, in all other cases it will result in an error.

In addition all usual TikZ and pgf keys can be used in the optional argument as well as the accessories presented in the following section.

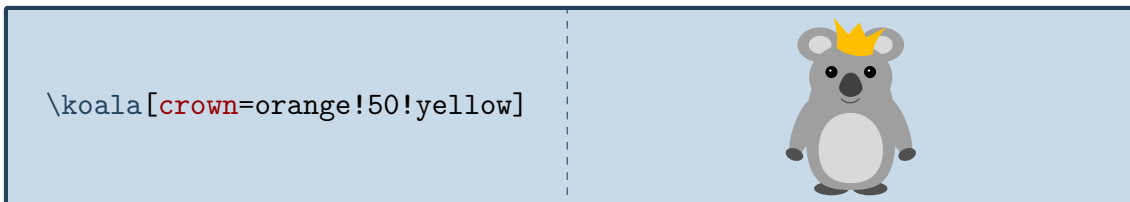


## Accessories

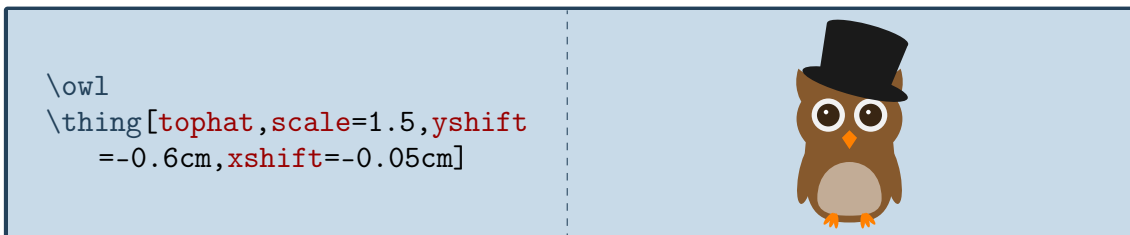
To customise the TikZlings the package provides a number of accessories which can be added to all the TikZlings simply by adding the respective keyword as optional argument:



For most of these items, the colour can be customised:

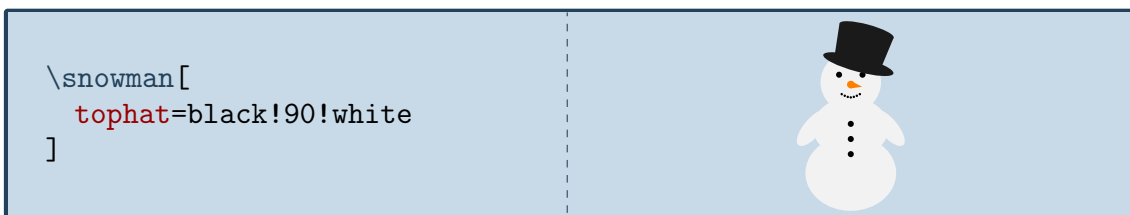
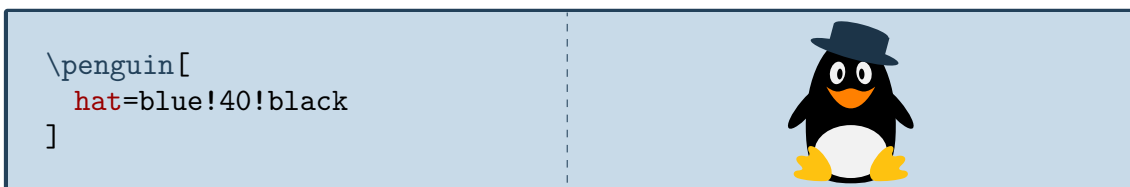


Unfortunately it is very difficult to create accessories that will fit all the different shapes of the TikZlings. Therefore it is also possible to add them separately as optional argument of the `\thing` macro, which allows more control of their size and placement:

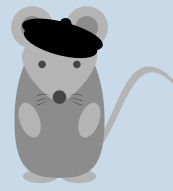


A list of all available accessories is given below. For completeness the default colours for each key are shown, but actually it is unnecessary unless it should be changed. In case more than one key is shown, all but the first are optional.

## Hats



```
\mouse[  
  beret=black  
]
```



```
\anteater[  
  strawhat=blue,  
  ribbon=black  
]
```



```
\coati[  
  harlequin=blue,  
  niugelrah=red  
]
```



```
\cat[  
  witch=gray  
]
```



```
\bear[  
  magichat=violet,  
  magicstars=yellow!80!brown  
]
```



```
\penguin[  
  crown=yellow!90!orange  
]
```



```
\koala[  
  queencrown=yellow  
]
```





```
\marmot[  
  kingcrown=gray  
]
```



```
\mouse[  
  santa=red!80!black  
]
```



```
\bear[  
  chef=gray!20!white  
]
```



```
\snowman[  
  graduate=black,  
  tassel=red  
]
```



```
\penguin[  
  alien=green  
]
```

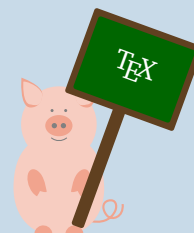


## Communication

```
\coati[  
  book={\tiny\TeX},  
  bookcolour=brown  
]
```



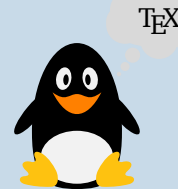
```
\pig[  
  signpost={\TeX},  
  signcolour= brown!50!black,  
  signback=green!40!black  
]
```



```
\bear[
  speech={\TeX},
  bubblecolour=gray!30!white
]
```



```
\penguin[
  think={\TeX},
  bubblecolour=gray!30!white
]
```



## Food

```
\koala[
  pizza
]
```



```
\mouse[
  cheese=yellow!30!orange!60!
  white
]
```



```
\coati[
  baguette=brown
]
```



```
\moles[
  cake=violet
]
```



```
\marmot[
  icecream=brown!60!gray,
  flavoura=brown!50!black,
  flavourb=white!70!brown,
  flavourc=red!50!white
]
```



```
\penguin[  
  milkshake=red!20!white  
]
```



```
\owl[  
  wine=red!70!black  
]
```



## Sports

```
\coati[  
  cricket=brown  
]
```



```
\bee[  
  hockey=brown  
]
```



```
\squirrel[  
  football=white  
]
```



## Other items

```
\marmot[  
  crystalball=cyan  
]
```



```
\bear[  
  magicwand  
]
```



```
\coati[  
  rollingpin=brown  
]
```



```
\penguin[  
  lightsaber=green  
]
```



```
\snowman[  
  torch=gray  
]
```



```
\mouse[  
  basket=brown!70!gray  
]
```



```
\sloth[  
  easter=brown!70!gray,  
  egga=blue,  
  eggb=green,  
  eggc=red  
]
```



```
\koala[  
  crozier=brown  
]
```



```
\snowman[  
  shovel=gray  
]
```



```
\penguin[  
  pickaxe=gray  
]
```



```
\rhino[  
  umbrella=cyan  
]
```



```
\marmot[  
  umbrellaclosed=cyan  
]
```



```
\mouse[  
  handbag=red!70!black  
]
```



```
\bear[  
  cocktail  
]
```

