A photograph of three mallards swimming in a body of water. The ducks are brown with yellow beaks and black heads. They are swimming in a line, with the third duck in the foreground. The water is rippled and reflects the light.

The TikZducks say  
“Hello!”

samcarter

5. April 2018

Dante Frühjahrstagung Passau





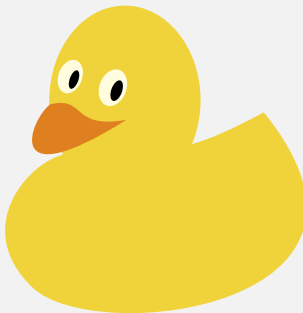
# Introduc(k)tion

# Basic usage

```
\documentclass{standalone}  
\usepackage{tikzducks}  
  
\begin{document}  
  
  \begin{tikzpicture}  
    \duck  
  \end{tikzpicture}  
  
\end{document}
```

# Basic usage

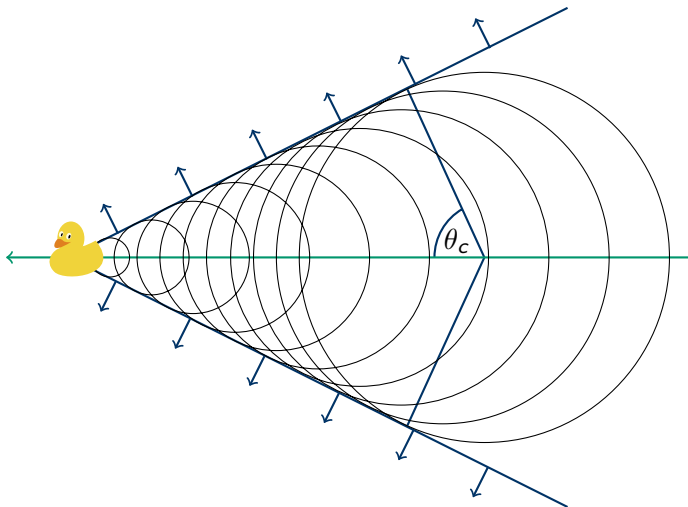
```
\documentclass{standalone}  
\usepackage{tikzducks}  
  
\begin{document}  
  
  \begin{tikzpicture}  
    \duck  
  \end{tikzpicture}  
  
\end{document}
```



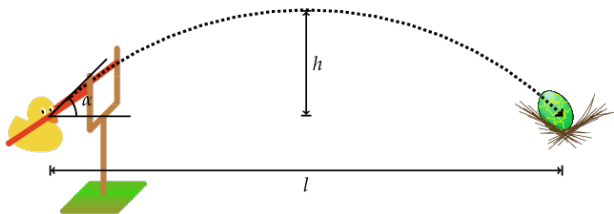


**Usage in scientific illustrations**

# Scientific Illustrations I



# Scientific illustrations II



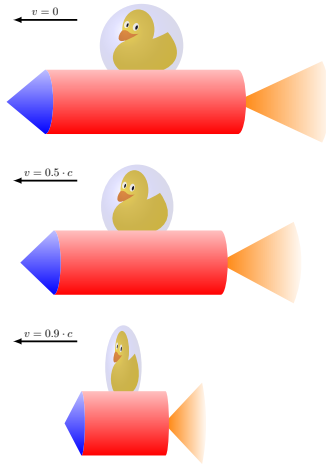
Initial speed  $u$  at angle  $\alpha$ , acceleration  $-g$  vertically.

1. Initial velocity  $\mathbf{u} = \begin{pmatrix} \text{.....} \\ \text{.....} \end{pmatrix}$
2. Vertical velocity  $v_y = \text{.....}$
3. Time to highest point  $t_m = \text{.....}$
4. Vertical position  $y = \text{.....}$
5. Height of highest point  $h = \text{.....}$
6. Time to landing  $t_l = \text{.....}$
7. Horizontal velocity  $v_x = \text{.....}$
8. Horizontal position  $x = \text{.....}$
9. Landing position  $l = \text{.....}$
10. Time in terms of horizontal position  $t = \text{.....}$
11. Vertical position in terms of horizontal position  $y = \text{.....}$

<https://tex.stackexchange.com/a/423336>



# Scientific illustrations III



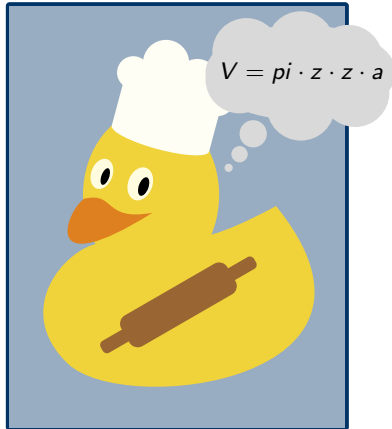
<https://tex.stackexchange.com/a/423010>

# Scientific illustrations IV

What is the formula for the volume of a cylinder with

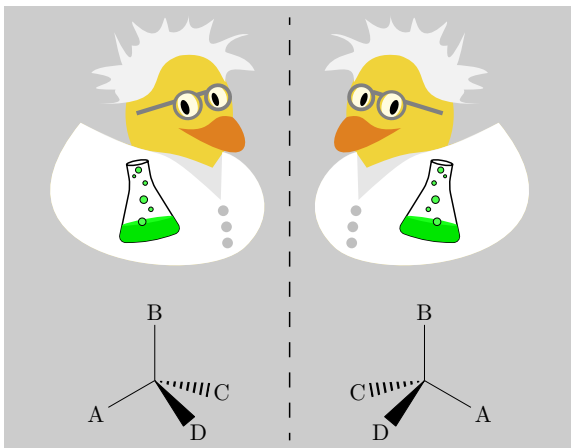
- radius  $z$   
and
- height  $a$

?



<https://tex.stackexchange.com/a/423007>

# Scientific illustrations V



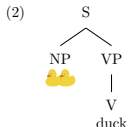
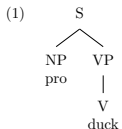
<https://tex.stackexchange.com/a/423094>

# Scientific illustrations VI

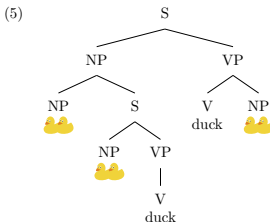
**Theorem 1.** *For any  $n$ , there is a grammatical English sentence of length  $n$  consisting only of some combination of the words duck and ducks.*

Here are the first 6 (with very simplified trees).

- (1) Duck!
- (2) Ducks duck.
- (3) Ducks duck ducks.
- (4) Ducks ducks duck duck.
- (5) Ducks ducks duck duck ducks.
- (6) Ducks ducks ducks duck duck duck.



- (1) Duck!
- (2) duck.
- (3) duck .
- (4) duck duck.
- (5) duck duck .
- (6) duck duck duck.



<https://tex.stackexchange.com/a/423089>

# Scientific illustrations VII

Many more examples:

<https://tex.stackexchange.com/questions/422989/scientific-applications-of-the-tikzducks>



## Customisation

# Key-value-interface

```
\duck[%  
  body=blue,  
  head=green,  
  bill=red,  
  eye=yellow  
]
```



# Predefined addons

```
\duck[tophat]
```





# Predefined addons

```
\duck[tophat]
```



```
\duck[tophat=red]
```



# Ti*k*z Fashion



*Be up-to-duck!*

For an exhaustive list, please see the documentation <http://mirrors.ctan.org/graphics/pgf/contrib/tikzducks/tikzducks-doc.pdf>

# Hair styles



`\duck[shorthair]`



`\duck[longhair]`



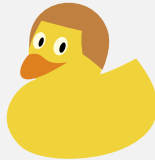
`\duck[crazyhair]`



`\duck[recedinghair]`



`\duck[mohican]`



`\duck[mullet]`

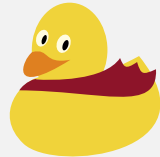
# Clothing



```
\duck[tshirt=gray]
```



```
\duck[jacket]
```



```
\duck[cape]
```

```
\duck[  
  tshirt=lightgray,  
  jacket=blue!50!black,  
  tie=blue!80!black,  
  mullet=brown!60!black  
]
```



# Hats



\duck[hat]



\duck[tophat]



\duck[graduate]



\duck[cap]



\duck[beret]



\duck[peakedcap]

# Crowns



```
\duck[crown=gray]
```

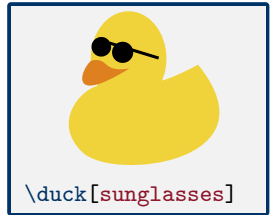
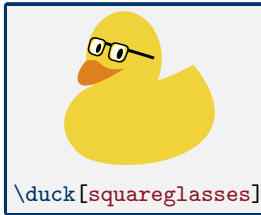
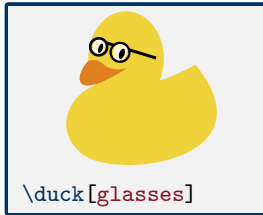


```
\duck[queencrown=  
gray]
```

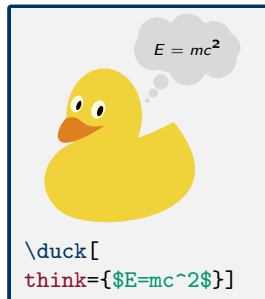
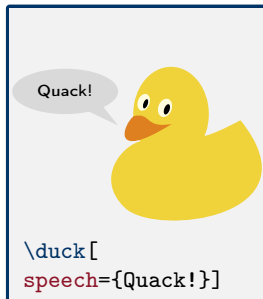
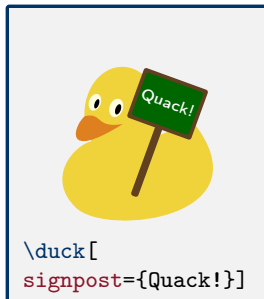


```
\duck[kingcrown]
```

# Glasses



# Messages





# Sports



`\duck[cricket]`



`\duck[hockey]`



`\duck[football]`

# Sports



`\duck[cricket]`



`\duck[hockey]`



`\duck[football]`

```
\definecolor{mggreen}{RGB}{37,166,89}
\duck[tshirt=mggreen,
    stripes={\stripes},
    football]
```



# Football ducks (by Carla Maggi)

## 1. FC Passau

```
\definecolor{FCPassau}{RGB}{249,34,26}  
\duck[tshirt=white,jacket=FCPassau,  
    football]  
\node at (wing) {\includegraphics[width  
    =0.3cm]{Logo_1fc_passau}};
```



# Football ducks (by Carla Maggi)

## 1. FC Passau

```
\definecolor{FCPassau}{RGB}{249,34,26}
\duck[tshirt=white,jacket=FCPassau,
      football]
\node at (wing) {\includegraphics[width
    =0.3cm]{Logo_1fc_passau}};
```



## SV Schalding-Heining

```
\definecolor{SV}{RGB}{41,151,66}
\duck[tshirt=white,football,
      stripes={\stripes[color=SV,
        emblem={\includegraphics[width=0.3cm]{
          Logo_SV-Schalding-Heining2}}}]
```



# Football ducks (by Carla Maggi)

## Cagliari

```
\duck[tshirt=white, jacket=blue,stripes  
  ={\stripes[color=red, width=0.46,  
    distance=3]}],football]
```

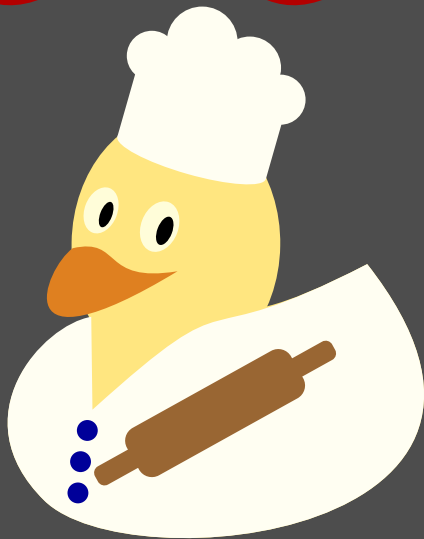
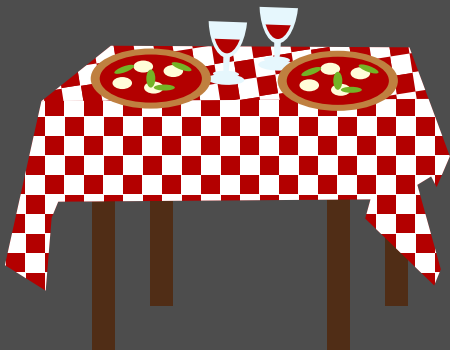


## Sampdoria

```
\duck[tshirt=blue, jacket=blue,stripes={  
\stripes[color=white,rotate=-90,  
  width=0.6,distance=1]  
\stripes[color=red,rotate=-90,  
  width=0.2,distance=1.2]  
\stripes[color=black,rotate=-90,width  
  =0.1,distance=1.3]}],football]
```



# *La Barchetta*



# Food



\duck[pizza]



\duck[icecream]



\duck[milkshake]



\duck[baguette]



\duck[cake]



\duck[wine]

# Random duck generator

`\randuck`

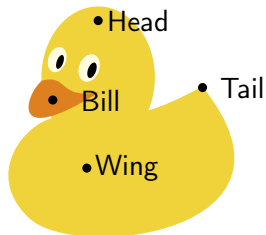
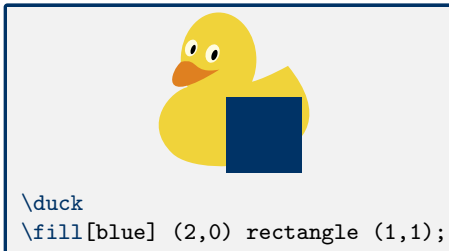


`\randuck`





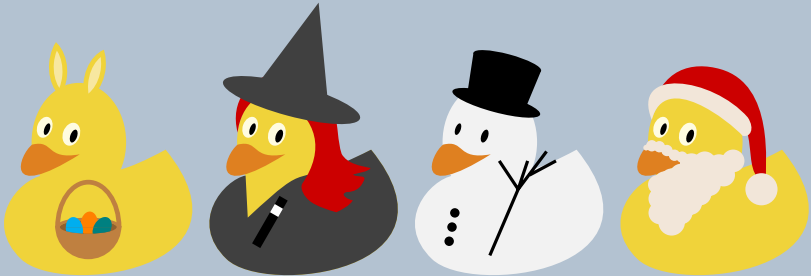
# Unlimited possibilities...





## Examples

# All year round



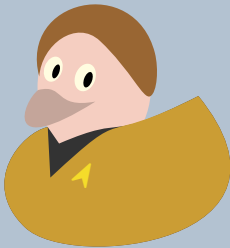
# Farm animals



# Come to the duck side!



# Live long and prosper!





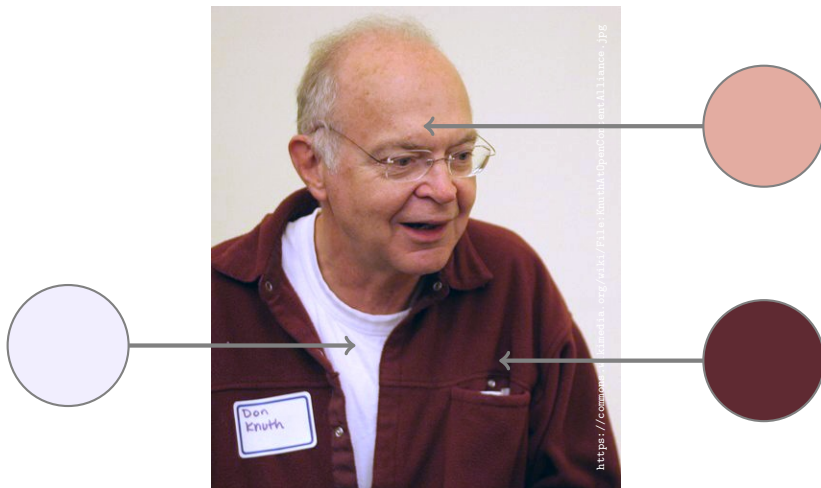
## Duckification

# Duckification

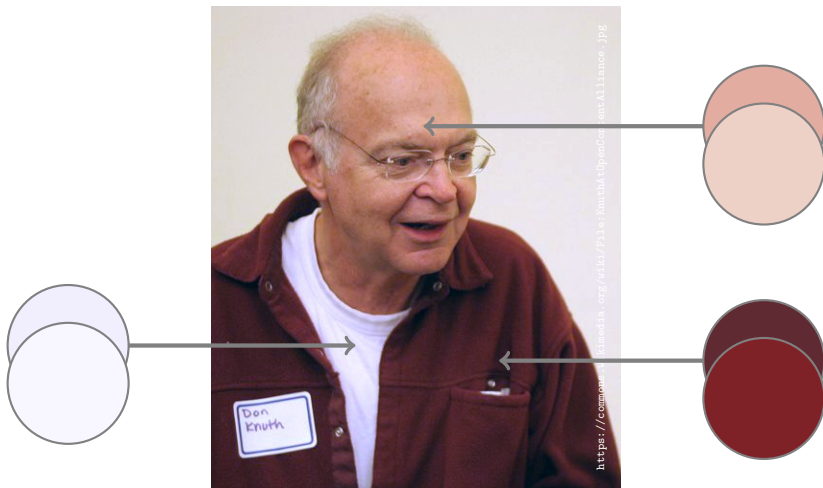




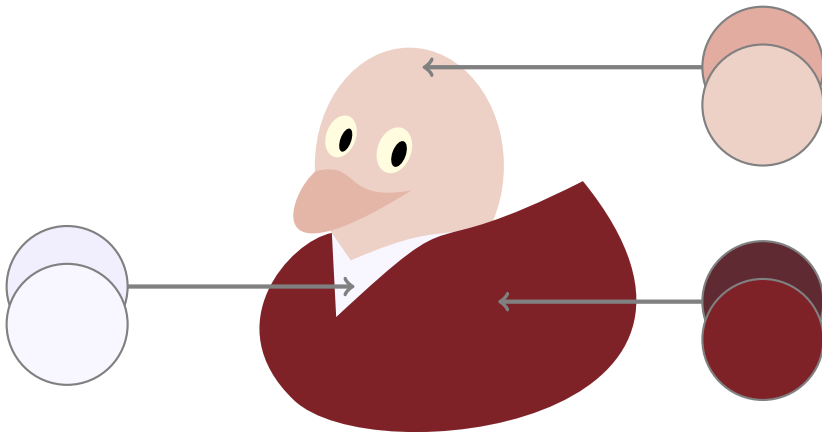
# Duckification



# Duckification



# Duckification



# Duckification



# Duckification





TikZducks users

**ZR-TeXnobabbler (€Ø)**

@zr\_tex8r

Follow



正月なので、アヒルにスシを乗せてみた。

#カントカ #tikzducks #いや別に意味はない



6:28 am - 1 Jan 2018

1 Like



1

**ZR-TeXnobabbler (€Ø)**

@zr\_tex8r

眠不覺 處處聞啼

post\_postamble

d.hatena.ne.jp/zrbabbler/

Joined January 2012

603 Photos and videos

・縦組みだから異常になる？  
・(u)pLaTeXだから異常になる？  
・それともそもそも仕様から外れる挙動 (←バグ) になる？  
#TeX #LaTeX

**斎藤漁火 (isari) @isaribi\_saitoh**

枠囲みの問題点

- oframed... 枠の幅がテキストの幅にフィットしない
- mdframed... 何故か上(left)の線が欠ける、幅が
- tcolorbox... そもそもutbookで使えない...

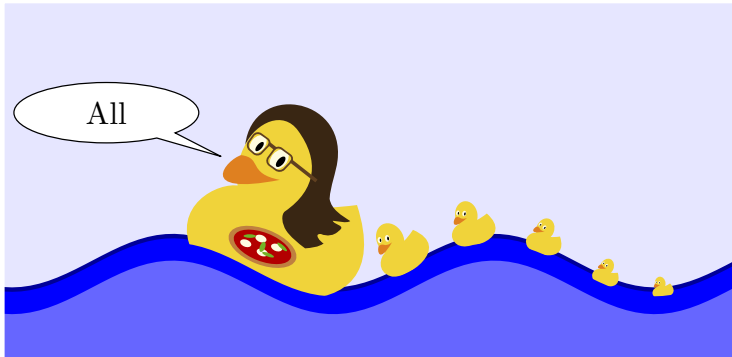
**New to Twitter?**

Sign up now to get your own personalised timeline!

Sign up

**You may also like** · Refresh**Acetaminophen**  
@aminophen

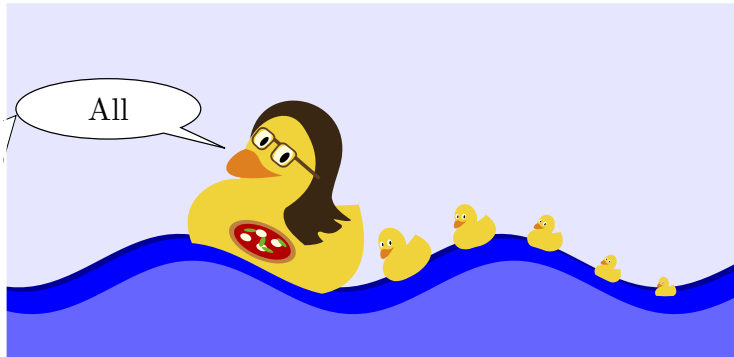
# Works of art



► <https://tex.stackexchange.com/a/420405>

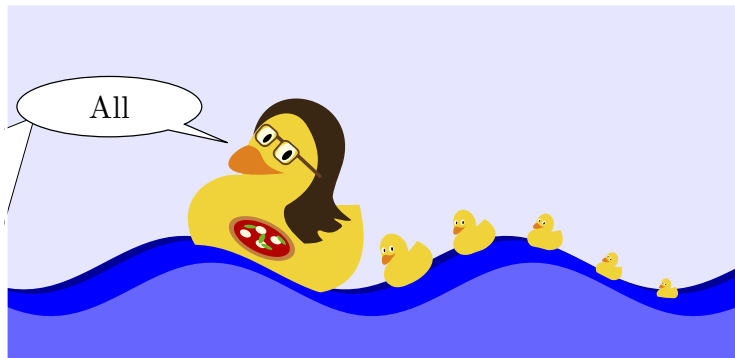


# Works of art



► <https://tex.stackexchange.com/a/420405>

# Works of art



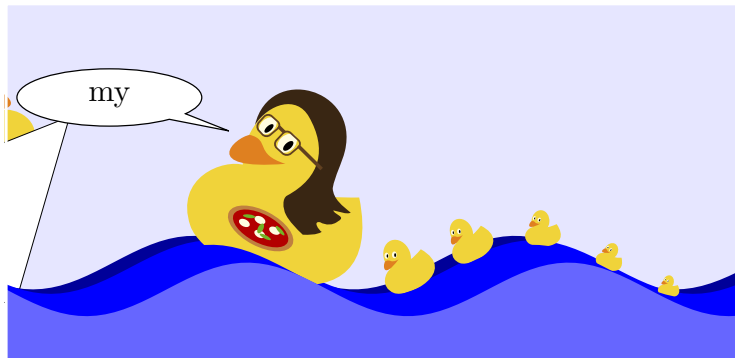
► <https://tex.stackexchange.com/a/420405>

# Works of art



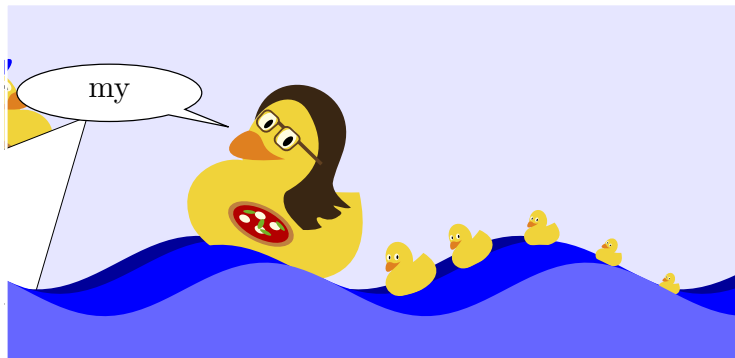
► <https://tex.stackexchange.com/a/420405>

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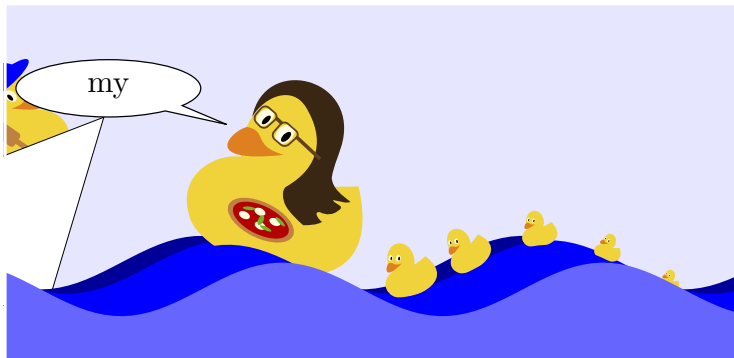
► <https://tex.stackexchange.com/a/420405>

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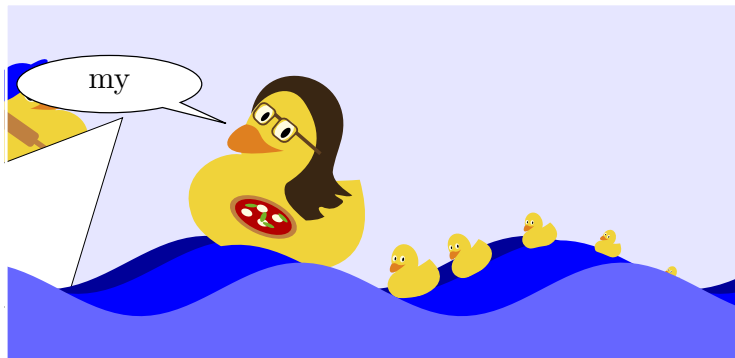
► <https://tex.stackexchange.com/a/420405>

# Works of art



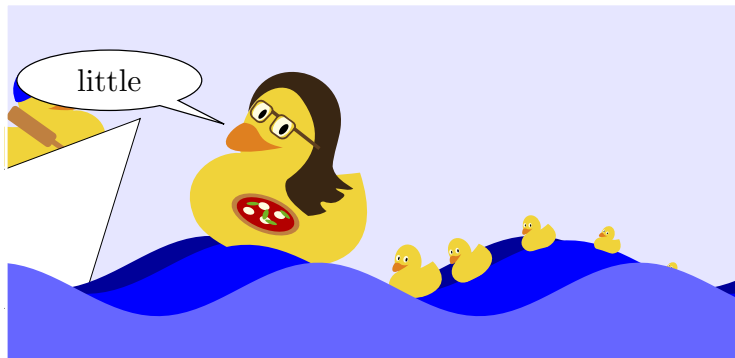
► <https://tex.stackexchange.com/a/420405>

# Works of art



► <https://tex.stackexchange.com/a/420405>

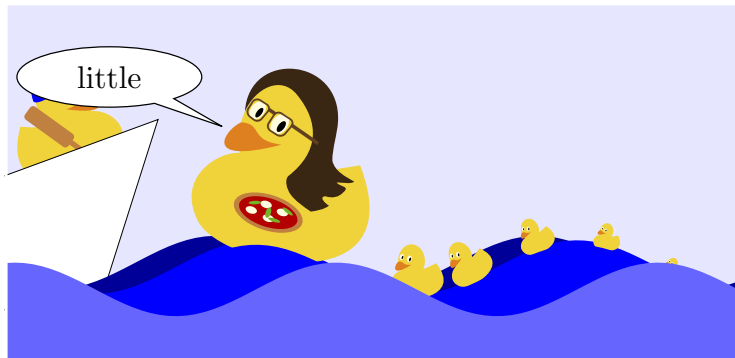
# Works of art



► <https://tex.stackexchange.com/a/420405>

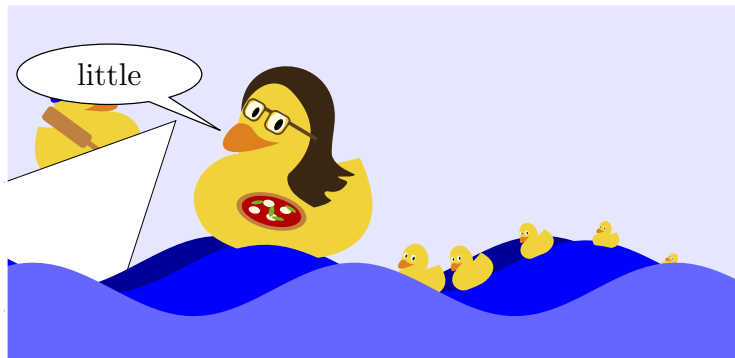


# Works of art



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# Works of art



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# Works of art



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# Works of art



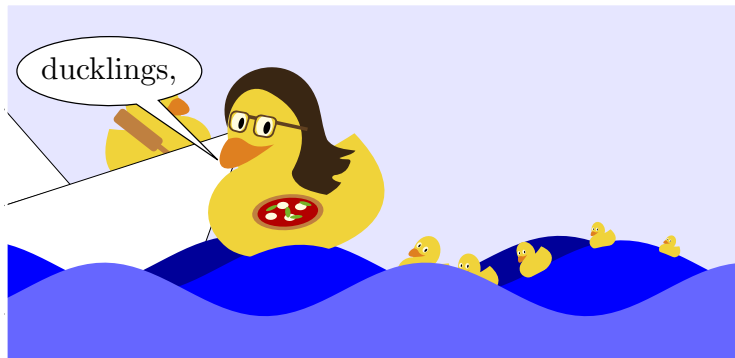
► <https://tex.stackexchange.com/a/420405>

# Works of art



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# Works of art



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# Works of art



► <https://tex.stackexchange.com/a/420405>

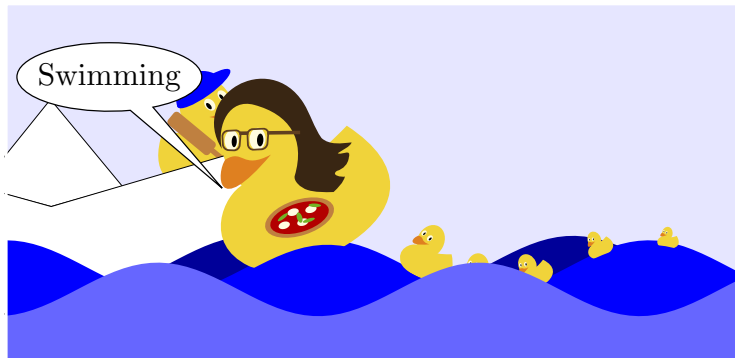
# Works of art



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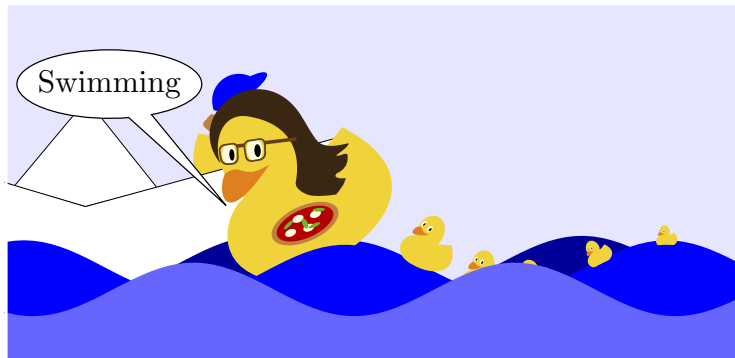
► <https://tex.stackexchange.com/a/420405>

# Works of art



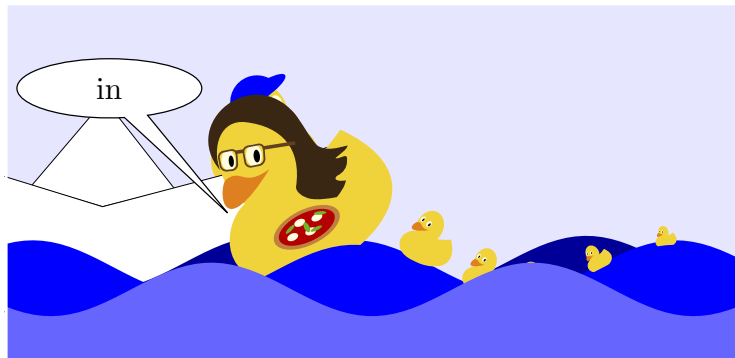
► <https://tex.stackexchange.com/a/420405>

# Works of art



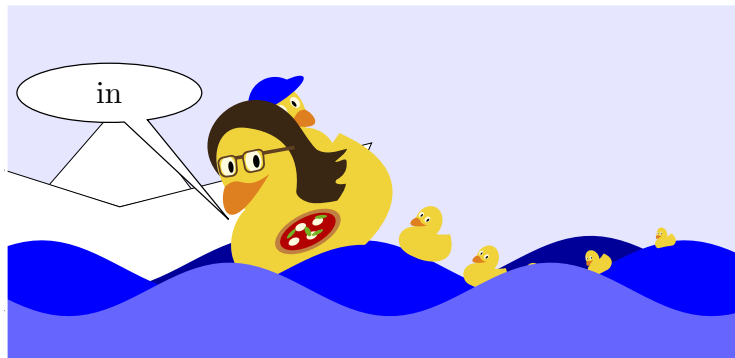
► <https://tex.stackexchange.com/a/420405>

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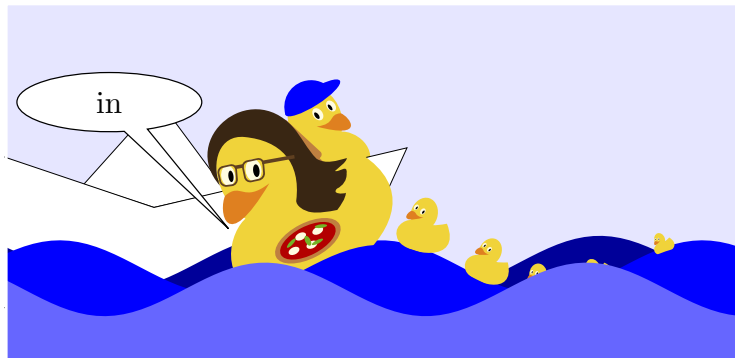
► <https://tex.stackexchange.com/a/420405>

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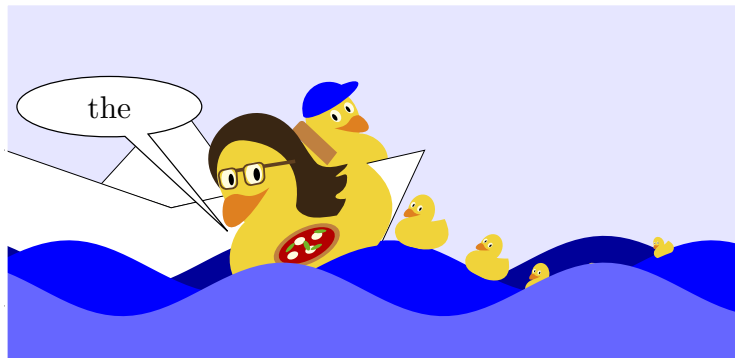
► <https://tex.stackexchange.com/a/420405>

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► <https://tex.stackexchange.com/a/420405>

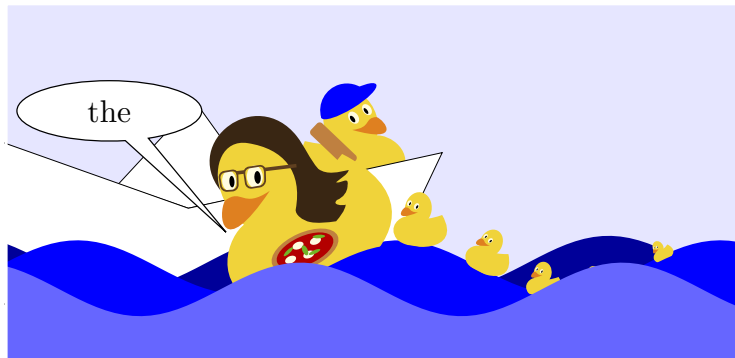
# Works of art



► <https://tex.stackexchange.com/a/420405>

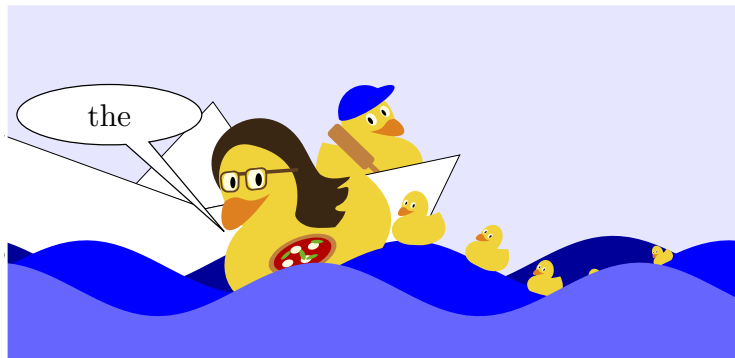


# Works of art



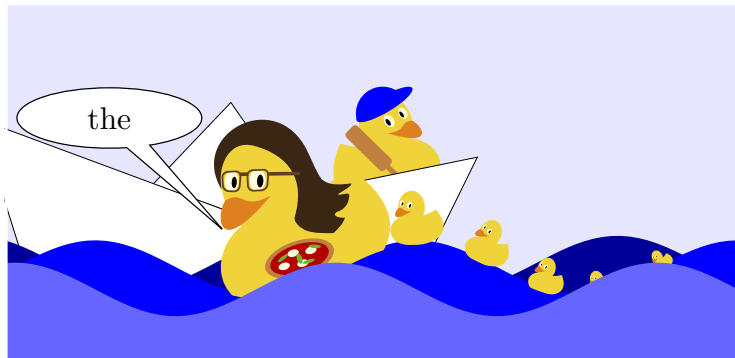
► <https://tex.stackexchange.com/a/420405>

# Works of art



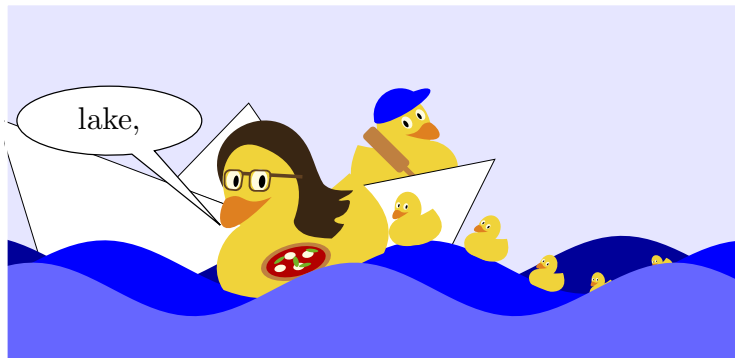
► <https://tex.stackexchange.com/a/420405>

# Works of art



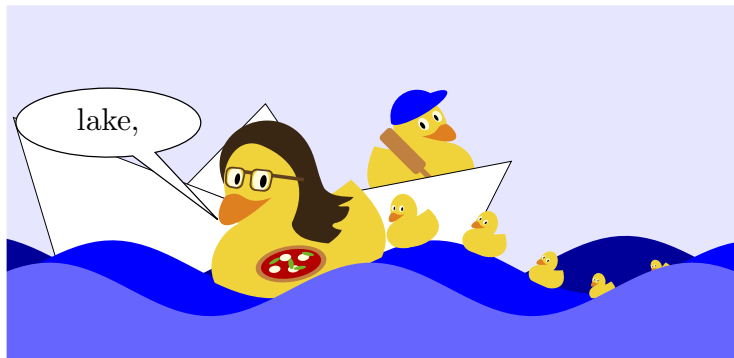
► <https://tex.stackexchange.com/a/420405>

# Works of art



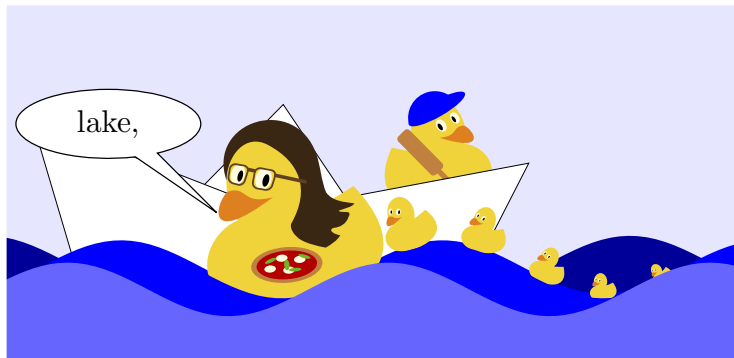
► <https://tex.stackexchange.com/a/420405>

# Works of art



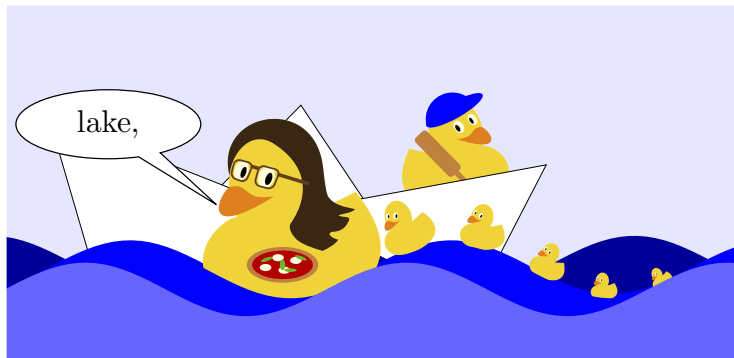
► <https://tex.stackexchange.com/a/420405>

# Works of art



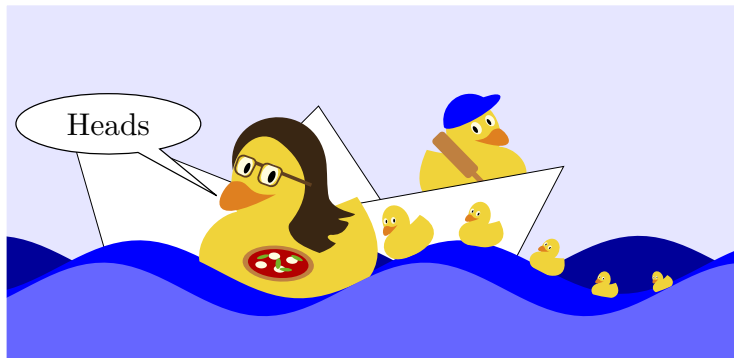
► <https://tex.stackexchange.com/a/420405>

# Works of art



► <https://tex.stackexchange.com/a/420405>

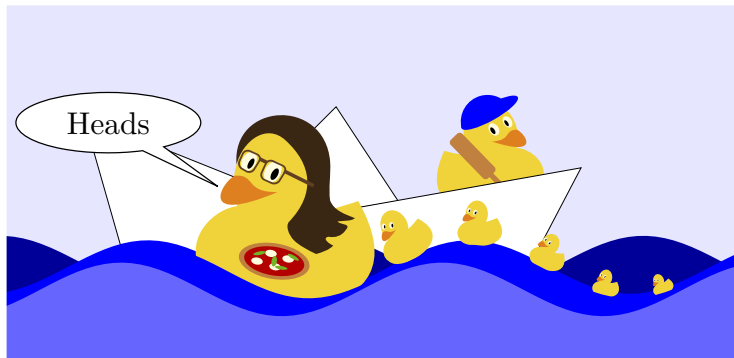
# Works of art



► <https://tex.stackexchange.com/a/420405>

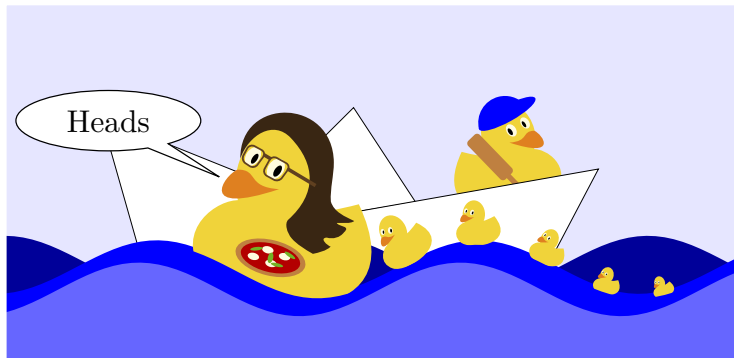


# Works of art



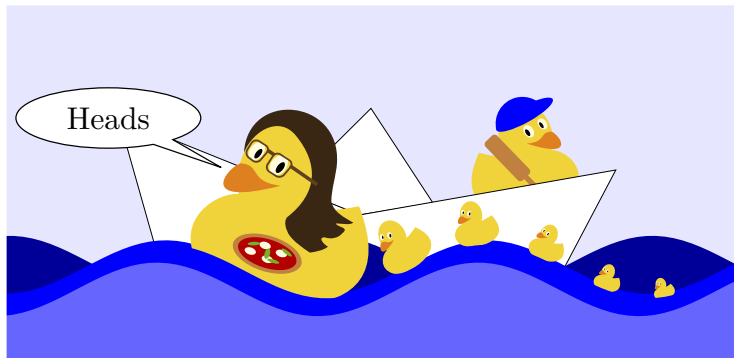
► <https://tex.stackexchange.com/a/420405>

# Works of art



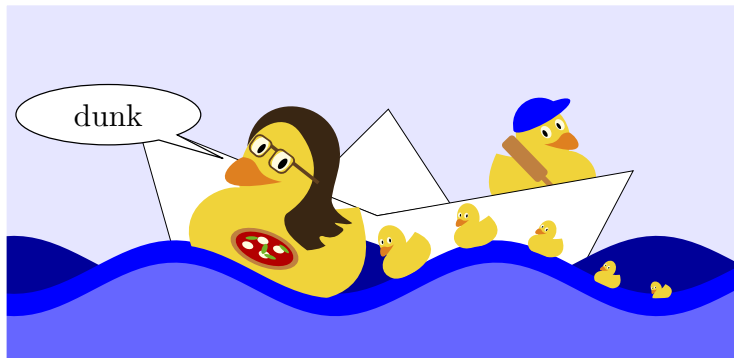
► <https://tex.stackexchange.com/a/420405>

# Works of art



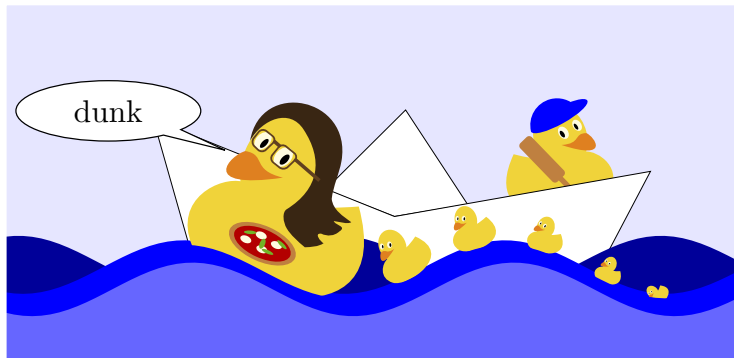
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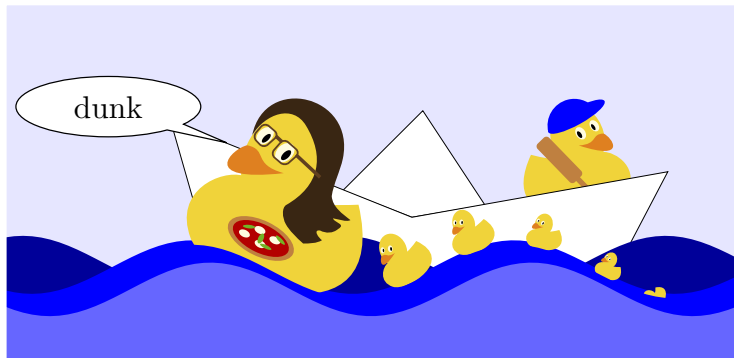
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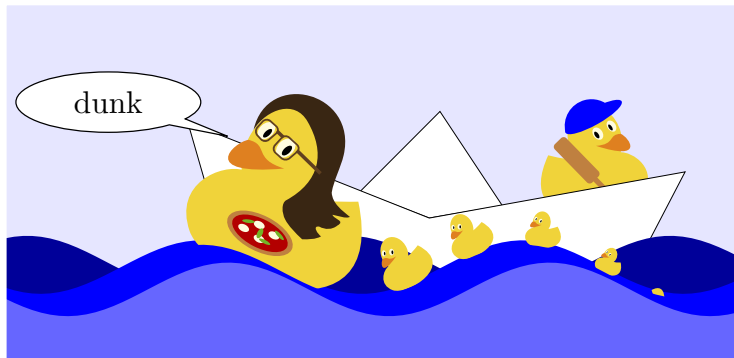
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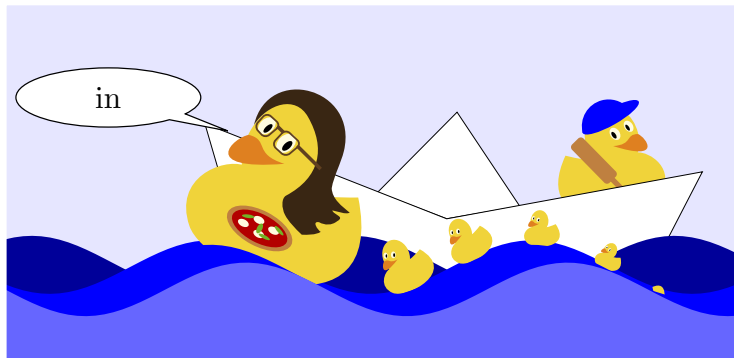
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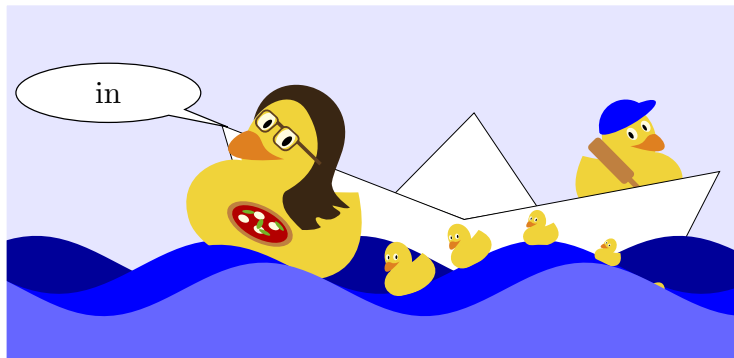
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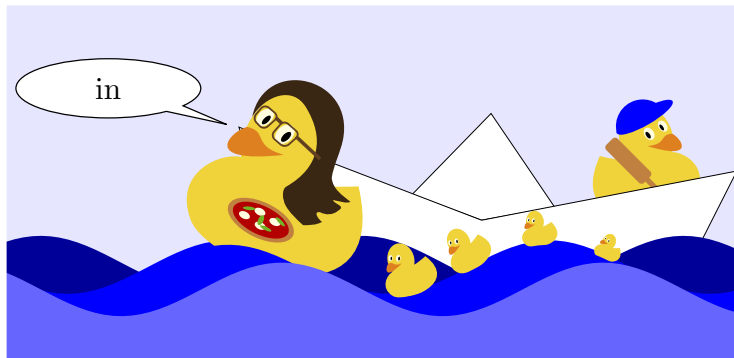


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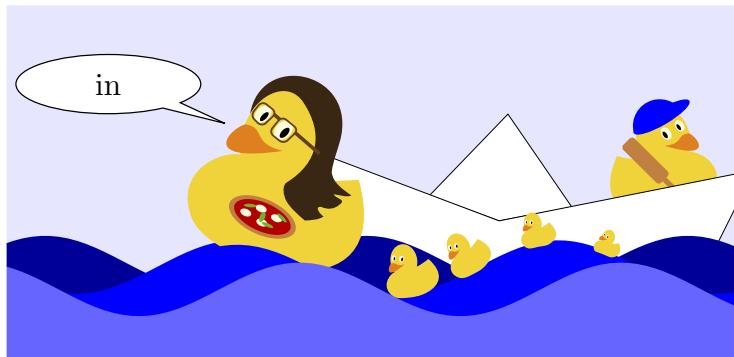
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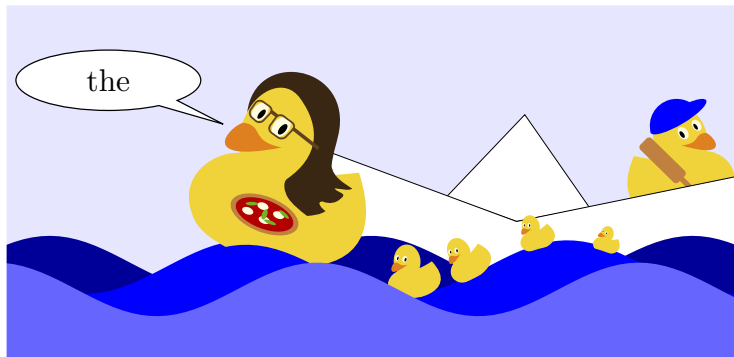
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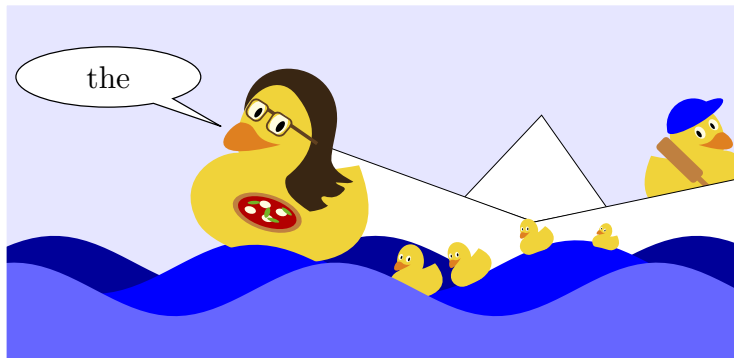
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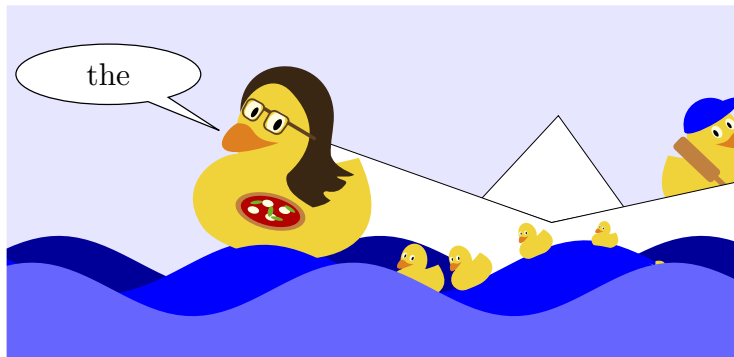
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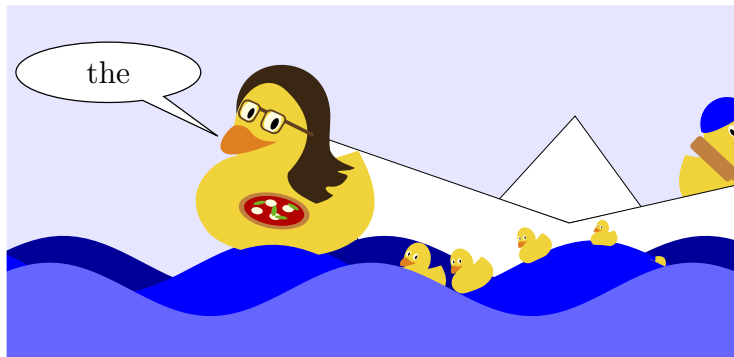
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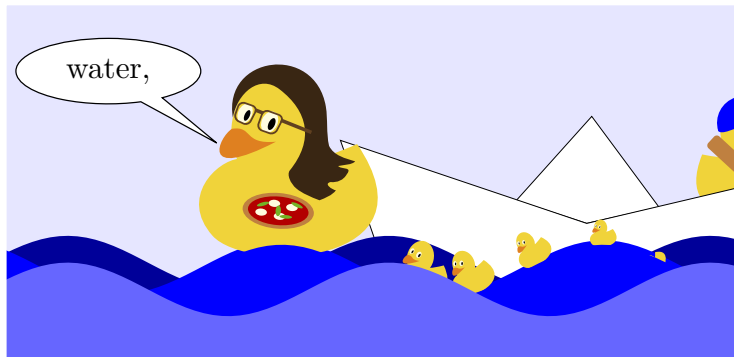
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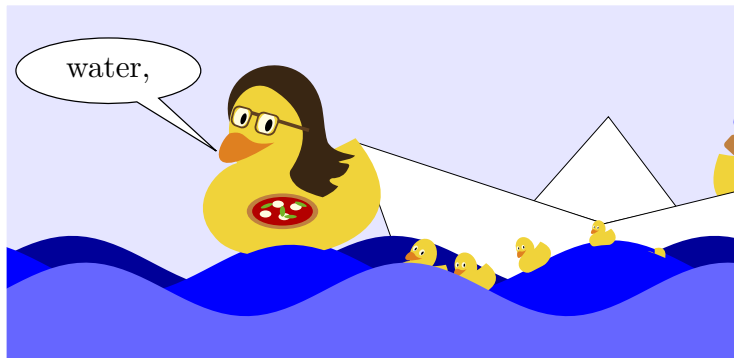
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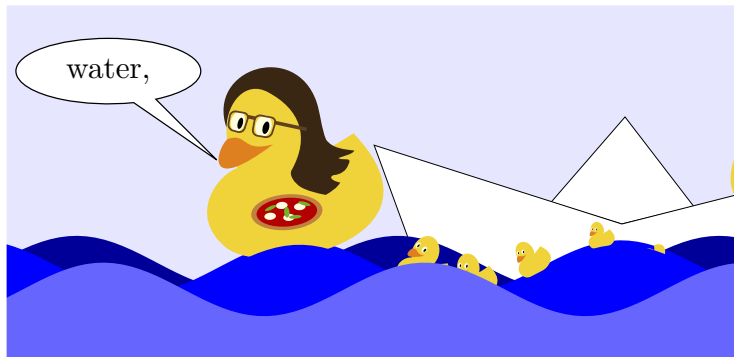


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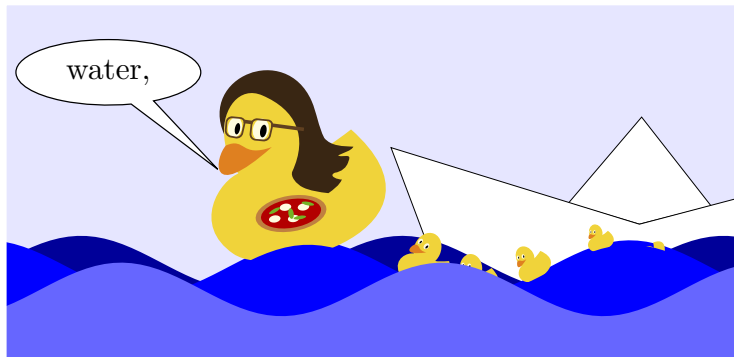
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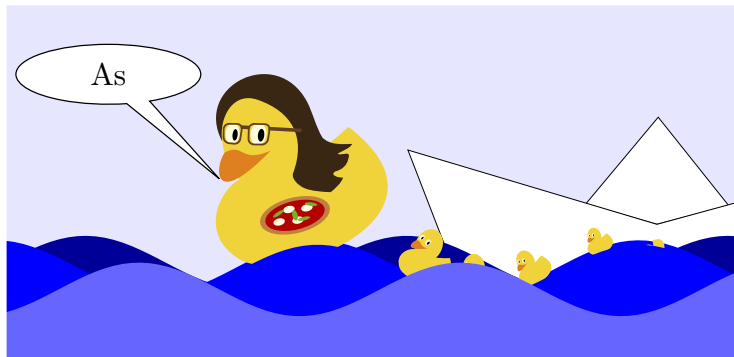
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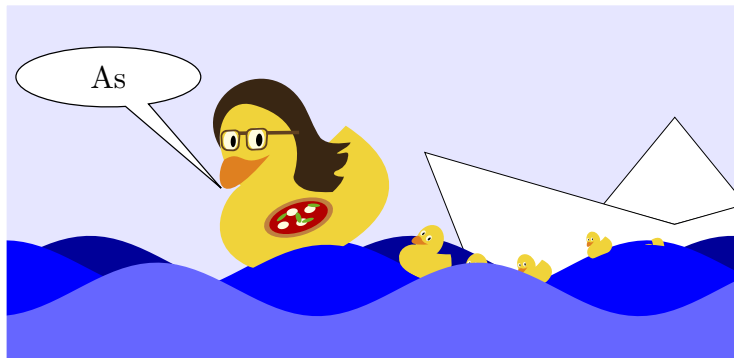
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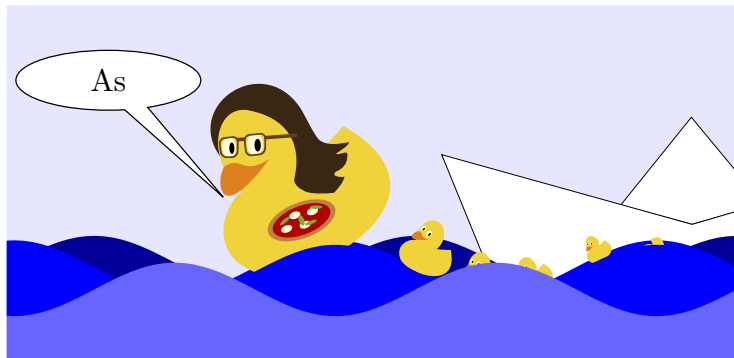
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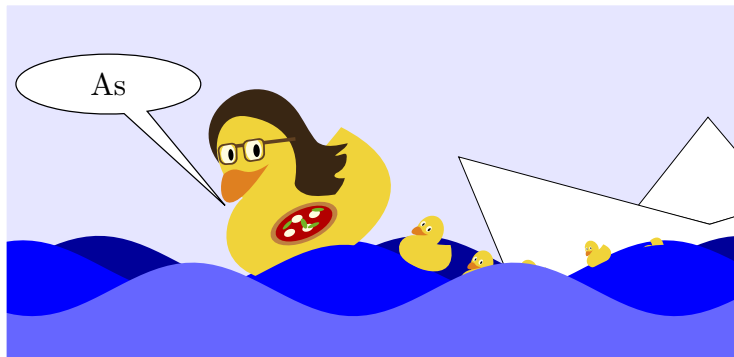
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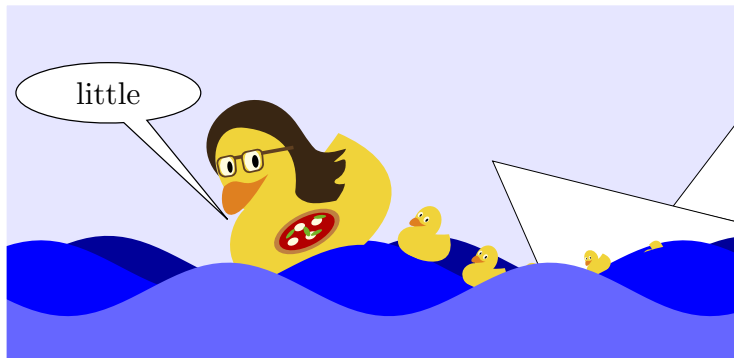
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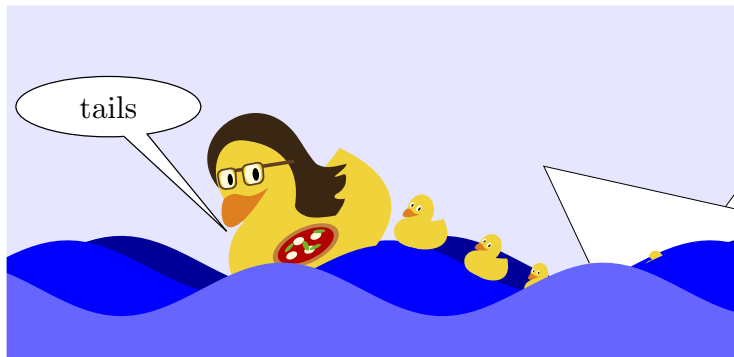
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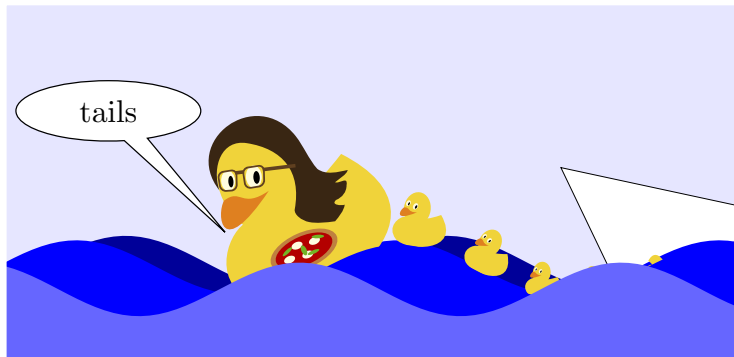
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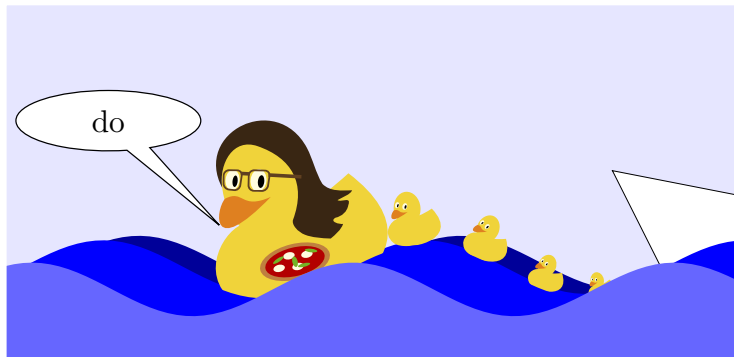
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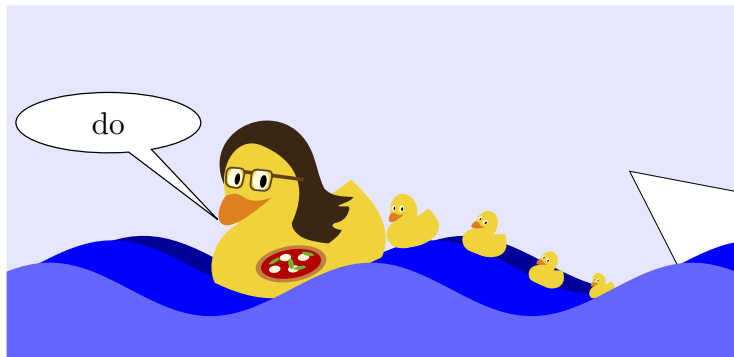
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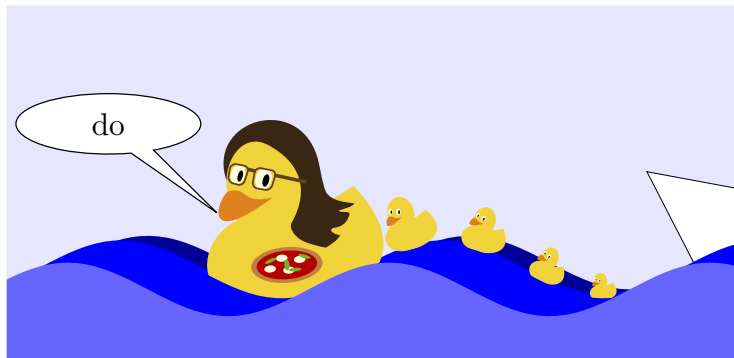


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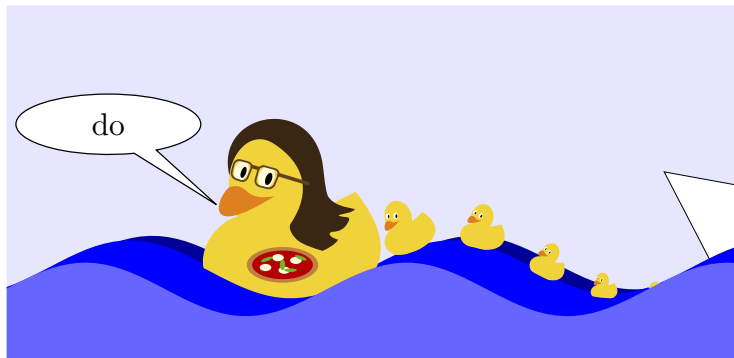
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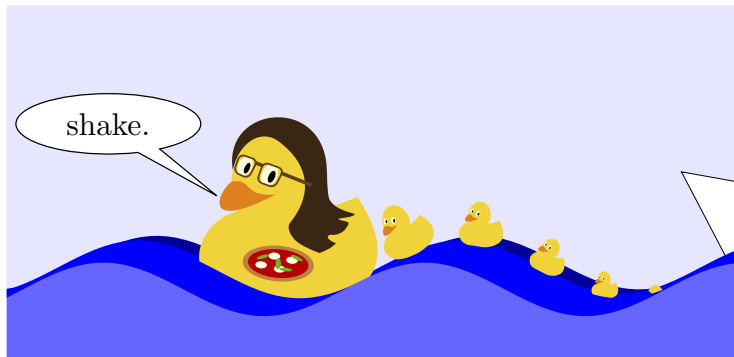
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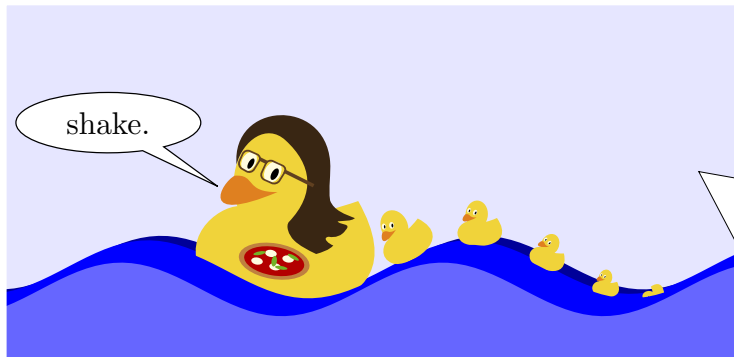
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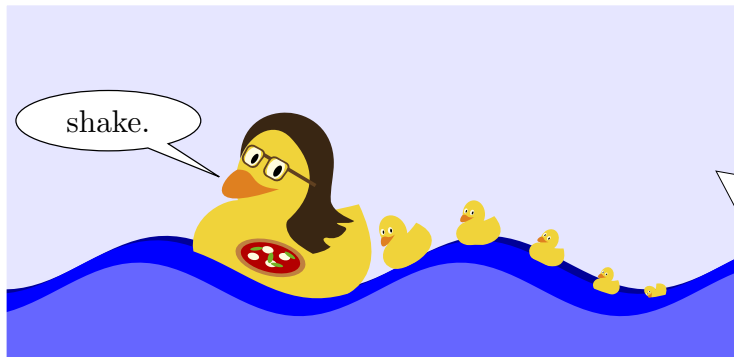
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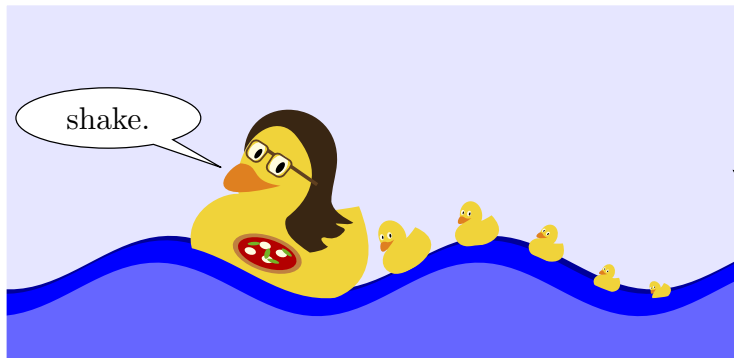
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**THE  
GREAT  
TIKZDUCKS  
CHRISTMAS  
EXTRAVAGANZA  
2017**



dedicated to samcarter, creator of tikzducks



# Works of art



© Ulrike Fischer



## Problems & Ideas

# Problems & Ideas

## Where to get the TikZducks?

- Included in T<sub>E</sub>XLive and MiK<sub>T</sub>E<sub>X</sub>
- CTAN: <https://ctan.org/pkg/tikzducks>
- GitHub: <https://github.com/samcarter8/tikzducks>

## Problems?

- Bug tracker: <https://github.com/samcarter8/tikzducks/issues>
- TeX.SE: <https://tex.stackexchange.com/questions/tagged/tikzducks>

## Suggestions?

- Bug tracker also for feature requests
- Contact the author on TeX.Stackexchange

Have fun!

