

The `rorlink` package

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Repo: <https://gitlab.com/lukeflo/rorlink-latex-package>

1 Introduction

This package provides a simple command for creating a **ROR** (Research Organization Registry) symbol including a link to the given ROR-ID – very similar to the **orcidlink** package.

2 Usage

The package can be included in the preambel like any other package:

```
\usepackage{rorlink}
```

`\rorlink{<ror-link>}` Use the command to create a small ROR symbol which is linked to the given ROR-URL. For example, `\rorlink{https://ror.org/00rcxh774}` will create a linked symbol to the ID of the *University of Cologne*.

You can include it into the document title using it inside the `\author{names}` command, as I did for this documentation:

```
\author{Florian Lukas\,\orcidlink{0000-0002-7959-5494}\,\rorlink{https://ror.org/02rspp784}}
```

Furthermore, it can be included into larger macros; for instance, to create an author section with all necessary informations of the contributors:

3 Optional Arguments

There are two possibilities of using an optional argument `blackwhite`

```
\usepackage[blackwhite]rorlink
```

The option `blackwhite` can be set globally in the preambel. Then every ROR link will appear in black and white only.

```
\rorlink[blackwhite]{<ror-link>}
```

The option `blackwhite` can be set as argument if you use the `\rorlink` macro inline. Then only the current symbol will appear in black and white.

*The code is mainly derived from the **orcidlink** package maintained by Leo Stein. The code of the **orcidlink** package itself rests mainly on th **tex.SE answer** by user Milo

4 Required Packages

hyperref Needed to use the symbol as a link to the particular ROR webpage.

tikz Is used to draw the ROR symbol using the `svg-path` method and process the image, when the `\rorlink` command is called.

etoolbox For the conditioning of the optional argument uses in inline commands.

5 Implementation

Required packages

```
1 \RequirePackage{hyperref}
2 \RequirePackage{tikz}
3 \RequirePackage{xparse}
4 \RequirePackage{etoolbox}
```

Set standard color of the ROR institution

```
5 \definecolor{rorlogocol}{HTML}{53BAA1}
6 % \end{macrocode}
7 %% Set global option |blackwhite| for depicting the logo only in black and white.
8 % \begin{macrocode}
9 \DeclareOption{blackwhite}{\definecolor{rorlogocol}{HTML}{000000}}
10 \DeclareOption*{\PackageWarning{rorlink}{Unknown option -- \CurrentOption --}}
11 \ProcessOptions\relax
```

Load tikz library for processing svg-paths.

```
12 \usetikzlibrary{svg.path}
```

The original svg-path received from the file <https://raw.githubusercontent.com/ror-community/ror-logos/main/ror-icon-rgb.svg>

```
13 \tikzset{
14 rorlogo/.pic={
15 \fill[rorlogocol] svg[M68.65,4.16L56.52,22.74L44.38,4.16L68.65,4.16Z]
16 svg[M119.41,4.16L107.28,22.74L95.14,4.16L119.41,4.16Z]
17 svg[M44.38,115.47L56.52,96.88L68.65,115.47L44.38,115.47Z]
18 svg[M95.14,115.47L107.28,96.88L119.41,115.47L95.14,115.47Z];
19 \fill[black] svg[M145.53,63.71C149.83,62.91 153.1,61 155.33,57.99C157.57,54.98 158.68,51.32 160.0,48.0]
20 }
21 }
```

The original height of the svg file is 119.27pt. The macro here uses 1/119.27 as unit.

```
22 \newcommand{\@OrigHeightRecipROR}{0.008384338}
```

The logo is adjusted to the used font size and an optional option `blackwhite` for depicting the logo in only black and white colors is set.

```
23 \newlength{\@curXheightROR}
24 \DeclareDocumentCommand\rorlink{om}{%
25 \IfNoValueTF{#1}{%
26 \texorpdfstring{%
27 \setlength{\@curXheightROR}{\fontcharht\font‘X}%
28 \href{#2}{\XeTeXLinkBox{\mbox{%
29 \begin{tikzpicture}[yscale=-\@OrigHeightRecipROR*\@curXheightROR,%
30 xscale=\@OrigHeightRecipROR*\@curXheightROR,transform shape]%
```

```

31 \pic{rorlogo};%
32 \end{tikzpicture}%
33 }}}}{}%
34 }{%
35 \ifstrequal{#1}{blackwhite}{%
36 \begin{group}%
37 \definecolor{rorlogocol}{HTML}{000000}
38 \texorpdfstring{%
39 \setlength{\@curXheightROR}{\fontcharht\font‘X}%
40 \href{#2}{\XeTeXLinkBox{\mbox{%
41 \begin{tikzpicture}[yscale=-\@OrigHeightRecipROR*\@curXheightROR,%
42 xscale=\@OrigHeightRecipROR*\@curXheightROR,transform shape]}%
43 \pic{rorlogo};%
44 \end{tikzpicture}%
45 }}}}{}%
46 \end{group}%
47 }{\PackageWarning{rorlink}{The defined optional argument is unknown, thus, set to blank.}}{\ror
48 }%
49 }%
50 \endinput

```

Change History

1.0.0	General: Build documentation and sty 1	syntax and implementation of optional arguments for a black and white logo 1
1.1.0	General: Updated command	

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