The linkTold package

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This document corresponds to linkTold v0.1, dated 2018/04/08.

1 Implementation

```
1 % TODO: Read more of clsguide.pdf to find more things to add.
2 % TODO: Concerning NeedsTeXFormat: Find out which format we actually require
3
4 % TODO: Should these packages be included here or included by the user?
5 %        Now, the user can not pass options to these packages.
6
7 \RequirePackage{tikz}
8 % \RequirePackage{xstring}
9 \RequirePackage{stringstrings}
10 \RequirePackage{hyperref}
11
```

1.1 ORCID specifics

1.1.1 Implementation

Next we set up the icon rendering and the margins as requested by ORCID.

```
12 % The conversion of the ORCID icon from SVG to TIKZ is documented in the file preparation/orcid
13 \newcommand{\linkToOrcidIcon}{\begin{tikzpicture}[x=1.6ex,y=1.6ex] % Found by experiment that 1
14 % #A6CE39 = {166/256,206/256,57/256} = {0.651, 0.808, 0.224}\
15 \definecolor{orcidgreen}{rgb}{0.651, 0.808, 0.224}\
16 % the image has a size of 2.56em. We need to scale it such that 2.56em -> 1em. Conversion facto
17 \begin{scope}[yscale=0.39,xscale=0.39]\
18 % The y axes is mirrored since the SVG coordinates are in opposite direction.\
19 % The drawing is then still downwards from 0, therefore we move it up to have its bottom at 0\
20 \begin{scope}[shift={(0,2.56)},yscale=-1,xscale=1]\
21 % this is the large surrounding circle\
22 \fill [orcidgreen] (1.28,1.28) circle (1.28);\
23 % this is the base of the "i", can be drawn as a filled rectangle\
24 \fill [white] (0.863,1.862) rectangle (0.709,0.791);\
25 % this is the outer shape of the "D"\
26 \fill [white] (1.089,0.791) -- (1.505,0.791) .. controls (1.901,0.791) and (2.075,1.074) .. (2.
```

```
27 % this is the inner shape of the "D"\
28 \fill [orcidgreen] (1.243,1.724) -- (1.488,1.724) .. controls (1.837,1.724) and (1.917,1.459) .
29 % this is the dot of the "i"\
30 \fill [white] (0.786,0.568) circle (0.101);\
31 \end{scope}\
32 \end{scope}\
33 \end{tikzpicture}}
34 \newcommand{\linkToOrcidIconMarginLeft}{\hspace{0.25em}\linkToOrcidIcon}
35 \newcommand{\linkToOrcidIconMarginRight}{\hspace{0.25em}\linkToOrcidIcon}
36 \newcommand{\linkToOrcidIconMarginBoth}{\hspace{0.25em}\linkToOrcidIcon\hspace{0.25em}}}
```

```
37 % TODO: Should we be using \DeclareRobustCommand here instead? Difference to \newcommand is not
38 % TODO: Add an option on whether to prepend the https://orcid.org/ or not.
39 % TODO: Recognize the ID also without the https://orcid.org/ and prepend it if necessary.
40 \newcommand{\linkToOrcidIdToDisplayString}[1]{#1}
```

`\linkToOrcidEnsureURLPrefix` Ensures that an ORCID id starts with https://orcid.org/-prefix Usage:
`\linkToOrcidEnsureURLPrefix {⟨orcid-id⟩}`
Example: `\linkToOrcidEnsureURLPrefix{https://orcid.org/0000-0002-1825-0097}`
Output: https://orcid.org/0000-0002-1825-0097
Example: `\linkToOrcidEnsureURLPrefix{0000-0002-1825-0097}`
Output: https://orcid.org/0000-0002-1825-0097

```
41 % TODO: Both versions below can not be used inside texorpdfstring, pdflatex
42 %        stops with "TeX capacity exceeded, sorry [input stack size=5000]"
43 %        Therefore, this command is not yet used.
44 % using xstring:
45 %\newcommand{\linkToOrcidEnsureURLPrefix}[1]{\expandafter\IfBeginWith{#1}{https://orcid.org/}{#
46 % using stringstrings:
47 \newcommand{\linkToOrcidEnsureURLPrefix}[1]{\whereisword[q]{#1}{https://orcid.org/}\ifnum1=\the
```

1.1.2 Usage

The three macros defined below use the texorpdfstring macro internally the return
something that hyperref can put into a PDF field. This is needed for LyX, for
example, to be able to populate the PDF author fields automatically, even if these
macros are used in the author fields in LyX.

`\linkToOrcidNameIcon` Creates a link consisting of a name and an icon. Usage:
`\linkToOrcidNameIcon {⟨name⟩} {⟨orcid-id⟩}`
Example: `\linkToOrcidNameIcon{Josiah Carberry}{https://orcid.org/0000-0002-1825-0097}`
Output: Josiah Carberry ⬤

```
48 % TODO: Add an option to have links only on the icon and not also on the name.
49 % TODO: Add an option to remove the margin on the right hand side.
50 \newcommand{\linkToOrcidNameIcon}[2]{\texorpdfstring{\href{#2}{\mbox{#1\linkToOrcidIconMarginBo
```

`\linkToOrcidIconId` Creates a link consisting of a name and an icon. Usage:
`\linkToOrcidIconId {⟨orcid-id⟩}`
Example: `\linkToOrcidIconId{https://orcid.org/0000-0002-1825-0097}`
Output: ⬤ https://orcid.org/0000-0002-1825-0097

```
51 % TODO: Add an option to remove the margin on the left hand side.
52 \newcommand{\linkToOrcidIconId}[1]{\texorpdfstring{\href{#1}{\mbox{\linkToOrcidIconMarginBoth\l
```

\linkToOrcidNameIconId Creates a link consisting of a name, an icon and an ID. Usage:

\linkToOrcidNameIconId {⟨*name*⟩} {⟨*orcid-id*⟩}

Example: \linkToOrcidNameIconId{Josiah Carberry}{https://orcid.org/0000-0002-1825-0097}

Output: Josiah Carberry ⬤ https://orcid.org/0000-0002-1825-0097

```
53 % TODO: Add an option to have links only on the icon and the id and not also on the name.
54 \newcommand{\linkToOrcidNameIconId}[2]{\texorpdfstring{\href{#2}{\mbox{#1\linkToOrcidIconMargin
```