# workaddress.sty: An Infrastructure for managing Addresses and Affiliations in LATEX\*

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#### Abstract

The  ${\tt workaddress}$  package allows manage addresses and Affiliations in a  ${\tt bibTFX-like}$  manner.  $^1$ 

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 $^{1}\mathrm{EdNote}$ : continue

<sup>\*</sup>Version v0.4 (last revised 2012/09/23)

# 1 Introduction

The workaddress package allows manage Addresses and affiliations of persons in a bib TeX-like manner.  $^2$ 

# 2 The User Interface

### 2.1 Package Options

showmeta

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The workaddress package takes a single option: showmeta. If this is set, then the metadata keys are shown (see [Koh14] for details and customization options).

#### 2.2 Database Entries for Persons

The workaddress package recognizes that from a metadata perspective, persons are complex entities. In particular, specifying metadata is a tedious and repetitive task that leads to embarrassing errors. Therefore the workaddress package takes a hint from bibTeX and allows to specify personal metadata in a database and use it by a database key. The \WAPPESON macro allows to specify personal metadata<sup>3</sup>

```
\WAperson[id=jdoe,affiliation=dfki,department=skss,

url=http://dfki.de/jdoe]

{John Doe}

\WAperson[id=miko,affiliation=jacu,department=case,

url=http://kwarc.info/kohlhase]

{Michael Kohlhase}
```

**Example 1:** A small database of Persons

\WAperson

with the following keys:

 $<sup>^2\</sup>mathrm{EdNote}$ : continue

 $<sup>^3</sup>$ EDNOTE: This should be synchronized with the FOAF specification [BM07]

key	value	comment	
id	string	identifier of this person	
birthdate	date	birthdate	
email		the primary e-mail address	
url	URI	primary home page	
affiliation	Inst. identifier	the primary professional affiliation	
personaltitle	string	the personal title e.g. King	
academictitle	string	the academic title e.g. Prof. Dr.	
department	Inst. identifier	the department specified in the work address	
workaddress	long string	the work address	
privaddress	long string	the private address	
worktel	string	work telephone number	
privtel	string	private telephone number	
workfax	string	work fax number	
privfax	string	private fax number	
worktelfax	string	if the phone and fax share a prefix, give this as well	
privtelfax	string	dito	

In Figure 1 we have specified (minimal) metadata for the authors of the workaddress package. The metadata can be accessed by specifying the identifiers (given by the id key) in the workaddress macros defined below, see for instance the \WAcreators macro in Figure ??, which leads to the title block of this note.

Like in bibTeX [Pat], it is a good idea to collect the metadata in a separate file that is input in the document. In practice it may be possible to generate these files from conventional address databases.

#### 2.3 Institutions

Institutions are treated analogously to persons. The \WAinstitution macro al-

Example 2: A small Database of Institutions and their Parts

\WAinstitution

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lows to specify personal metadata<sup>4</sup> with the following keys:

 $<sup>^4\</sup>mathrm{EdNote}$ : This should be synchronized with the FOAF specification [BM07]

key	value	comment
id	string	identifier of this person
url	URI	primary home page
partof	Inst. identifier	parent institution

### 2.4 Applications

\WAauthorblock

The data from the address database can be used in various ways. For instance, the \WAauthorblock macro creates a block of users and their affiliations. In the context of the database from Figures 1 and 2, \WAauthorblock{miko,jdoe} creates

Michael Kohlhase John Doe

\wa@institution@logo

\wa@institution@logo creates the logo of an institution from the database, and (if that is not there create a box and a message instead.)

#### 3 Limitations

In this section we document known limitations. If you want to help alleviate them, please feel free to contact the package author. Some of them are currently discussed in the STFX TRAC [sTeX].

1. none reported yet

# 4 The Implementation

The workaddress package generates two files: the LATEX package (all the code between <code>\\*package</code>) and <code>\/package</code>) and the LATEXML bindings (between <code>\\*ltxml</code>) and <code>\/ltxml</code>). We keep the corresponding code fragments together, since the documentation applies to both of them and to prevent them from getting out of sync.

# 4.1 Package Options

The first step is to declare (a few) package options that handle whether certain information is printed or not. They all come with their own conditionals that are set by the options.

- $_1 \; \langle *\mathsf{package} \rangle$
- 2 \DeclareOption{showmeta}{\PassOptionsToPackage{\CurrentOption}{metakeys}}
- 3 \ProcessOptions
- 4 (/package)

The first measure is to ensure that the KeyVal package is loaded (in the right version). For LATEXML we also initialize the package inclusions.

- 5 (\*package)
- 6 \RequirePackage{sref}
- 7 \RequirePackage{pgf}

```
8 \langle / package \rangle
9 \langle * ltxml \rangle
10 # -*- CPERL -*-
11 package LaTeXML::Package::Pool;
12 use strict;
13 use LaTeXML::Global;
14 use LaTeXML::Package;
15 RequirePackage('sref');
16 RequirePackage('graphicx');
17 \langle / ltxml \rangle
```

#### 4.2 Persons

To implement the \WAperson macro, we need to implement its keywords.

```
18 (*package)
19 \addmetakey*{wa@person}{id}
20 \addmetakey*{wa@person}{birthdate}
21 \addmetakey*{wa@person}{email}
22 \addmetakey*{wa@person}{url}
23 \addmetakey*{wa@person}{affiliation}
24 \addmetakey*{wa@person}{personaltitle}
25 \addmetakey*{wa@person}{academictitle}
26 \addmetakey*{wa@person}{department}
27 \addmetakey*{wa@person}{workaddress}
28 \addmetakey*{wa@person}{privaddress}
29 \addmetakey*{wa@person}{worktel}
30 \addmetakey*{wa@person}{privtel}
31 \addmetakey*{wa@person}{workfax}
32 \addmetakey*{wa@person}{privfax}
33 \addmetakey*{wa@person}{worktelfax}
34 \addmetakey*{wa@person}{privtelfax}
```

\wa@def The next macro is an auxiliary one that puts the value into an appropriate token register.

```
35 \def\wa@def#1#2#3#4{\expandafter\xdef\csname wa@#1@#2@#3\endcsname{#4}} 36 \langle / package \rangle
```

At the LATEXML side we have a function ExportMetadata that does a similar job, fishing out the metadata keys from the keyval arguments and storing them in a safe place so they can be accessed later.

```
37 \langle *\text{ktml} \rangle
38     sub getKeyValue_noDelim {
39         my ($keyval,$key)=@_;
40         my $valuelist = $keyval && ToString($keyval->getValue($key));
41         $valuelist = \(^{(.*)}\$/\$1/g if $valuelist;
42         return $valuelist;
43     }
44     sub ExportMetadata {
45         my $keys = shift;
```

```
my($id, $email,$affill,$address,$url,$name)=$keys
              46
                    && map(getKeyValue_noDelim($keys,$_),qw(id email affiliation address url name));
              47
                  if ($id) {
              48
                   AssignValue('WA_'.$id.'_email',$email,'global') if $email;
              49
                   AssignValue('WA_'.$id.'_affiliation',$affill,'global') if $affill;
              50
                   AssignValue('WA_'.$id.'_address',$email,'global') if $email;
              51
              52
                   AssignValue('WA_'.$id.'_url',$url,'global') if $url;
                   AssignValue('WA_'.$id.'_name',$name,'global') if $name;
              53
                  } else {print STDERR "Warning: key 'id' undefined in \\WAperson\n"};
                  return;}#$
              56 (/ltxml)
\wa@ref@test
              This macro tests whether the information specified is defined, and gives an error
              message else.
              57 (*package)
              58 \def\wa@ref@test#1#2#3{%
              59 \@ifundefined{wa@#1@#2@#3}%
              60 {\PackageError{workaddress}{reference to undefined #3 of #1 #2}%
              61 {you must define a #1 with #2=#3\MessageBreak%
              62 via the macro \protect\WA#1, before you can use it!}}
              63 {}}
                 With this, referencing is simple
```

\wa@ref

64 \def\wa@ref#1#2#3{\wa@ref@test{#1}{#2}{#3}\csname wa@#1@#2@#3\endcsname}

With this we can define the \WAperson macro, it just clears the keys, sets them again, and stores them in token registers. If course only if a id attribute is given, else we raise an error.

#### WAperson

```
65 \left| \text{det}\right|
66 \newcommand\WAperson[2][]{\metasetkeys{wa@person}{#1}
67 \ifx\wa@person@id\@empty\@latex@warning{key 'id' undefined in WAperson}\else
68 \wa@def{person}\wa@person@id{id}{\wa@person@id}% redundant, but useful for checking
69 \wa@def{person}\wa@person@id{name}{#2}
70 \wa@def{person}\wa@person@id{email}{\wa@person@email}
71 \wa@def{person@id{birthdate}} {\wa@person@birthdate}
72 \wa@def{person}\wa@person@id{url}{\wa@person@url}
73 \wa@def{person}\wa@person@id{affiliation}{\wa@person@affiliation}
74 \wa@def{person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddress}{\wa@person@workaddres
75 \wa@def{person}\wa@person@id{privaddress}{\wa@person@privaddress}
76 \wa@def{person}\wa@person@id{personaltitle}{\wa@person@personaltitle}
77 \wa@def{person@id{academictitle}} {\wa@person@academictitle} \\
78 \wa@def{person@id{department}} {\wa@person@department}
79 \wa@def{person}\wa@person@id{workaddress}{\wa@person@workaddress}
80 \wa@def{person}\wa@person@id{privaddress}{\wa@person@privaddress}
81 \wa@def{person}\wa@person@id{worktel}{\wa@person@worktel}
```

```
82 \wa@def{person}\wa@person@id{privtel}{\wa@person@privtel}
  83 \wa@def{person}\wa@person@id{workfax}{\wa@person@workfax}
  84 \wa@def{person}\wa@person@id{privfax}{\wa@person@privfax}
  85 \wa@def{person}\wa@person@id{worktelfax}{\wa@person@worktelfax}
  86 \wa@def{person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@privtelfax}{\wa@person@pr
  87 \@ifundefined{wa@persons}
  88 {\xdef\wa@persons{\wa@person@id}}
  89 {\xdef\wa@persons{\wa@persons,\wa@person@id}}
  90 \fi}
  91 \newcommand\DCMperson[2][]{\WAperson[#1]{#2}%
  92 \PackageWarning{workaddress}{\protect\DCMperson\space is deprecated, use \protect\WAperson\space
  93 (/package)
  94 (*ltxml)
  95 DefKeyVal('wa@person','id','Semiverbatim');
  96 DefKeyVal('wa@person','birthdate','Semiverbatim');
  97 DefKeyVal('wa@person','email','Semiverbatim');
  98 DefKeyVal('wa@person','url','Semiverbatim');
  99 DefKeyVal('wa@person', 'affiliation', 'Semiverbatim');
100 DefKeyVal('wa@person', 'personaltitle', 'Semiverbatim');
101 DefKeyVal('wa@person', 'academictitle', 'Semiverbatim');
102 DefKeyVal('wa@person', 'department', 'Semiverbatim');
103 DefKeyVal('wa@person','workaddress','Semiverbatim');
104 DefKeyVal('wa@person','privaddress','Semiverbatim');
105 DefKeyVal('wa@person','worktel','Semiverbatim');
106 DefKeyVal('wa@person','privtel','Semiverbatim');
107 DefKeyVal('wa@person', 'workfax', 'Semiverbatim');
108 DefKeyVal('wa@person', 'privfax', 'Semiverbatim');
109 DefKeyVal('wa@person', 'worktelfax', 'Semiverbatim');
110 DefKeyVal('wa@person','privtelfax','Semiverbatim');
111
112 DefConstructor('\WAperson OptionalKeyVals:wa@person {}','',
113 afterDigest=>sub {
114 my ($stomach,$whatsit)=0_;
         my $keys=$whatsit->getArg(1);
116 my $name=ToString($whatsit->getArg(2));
           $keys->setValue('name',$name);
118 ExportMetadata($keys);
119 return;
120 });#$
121 (/ltxml)
```

#### 4.3 Institutions

To implement the \WAinstitution macro, we need to implement its keywords first.

```
122 \*package\
123 \addmetakey*{wa@institution}{id}
124 \addmetakey*{wa@institution}{shortname}
125 \addmetakey*{wa@institution}{acronym}
```

```
128 \addmetakey*{wa@institution}{countryshort}
                           129 \addmetakey*{wa@institution}{logo}
                           130 \addmetakey*{wa@institution}{streetaddress}
                           131 \addmetakey*{wa@institution}{townzip}
                           132 \addmetakey*{wa@institution}{type}
                           133 \addmetakey*{wa@institution}{country}
                             and we proceed as for \WAperson,
                           134 \let\wa@institutions=\relax
WAinstitution
                           135 \newcommand\WAinstitution[2][]{\metasetkeys{wa@institution}{#1}
                           136 \ifx\wa@institution@id\@empty\@latex@warning{key 'id' undefined in WAinstitution}\else
                           137 \wa@def{institution}\wa@institution@id{id}{\wa@institution@id}% redundant, but useful for check
                           138 \wa@def{institution}\wa@institution@id{name}{#2}
                           139 \wa@def{institution}\wa@institution@id{shortname} {\wa@institution@shortname} \\
                           140 \wa@def{institution}\wa@institution@id{acronym}{\wa@institution@acronym}
                           141 \wa@def{institution}\wa@institution@id{url}{\wa@institution@url}
                           142 \wa@def{institution}\wa@institution@id{partof}{\wa@institution@partof}
                           143 \wa@def{institution}\wa@institution@id{countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@institution@countryshort}{\wa@ins
                           144 \wa@def{institution}\wa@institution@id{logo}{\wa@institution@logo}
                           145 \wa@def{institution}\wa@institution@id{townzip}{\wa@institution@townzip}
                           146 \wa@def{institution}\\wa@institution@id\{streetaddress\}\\\{\wa@institution@streetaddress\}\\
                           147 \wa@def{institution}\wa@institution@id{country}{\wa@institution@country}
                           148 \wa@def{institution}\wa@institution@id\{type\}{\wa@institution@type}\}
                           149 \@ifundefined{wa@institutions}
                           150 {\xdef\wa@institutions{\wa@institution@id}}
                           151 {\xdef\wa@institutions{\wa@institutions,\wa@institution@id}}
                           153 \newcommand\DCMinstitution[2][]{\WAinstitution[#1]{#2}%
                           154 \PackageWarning{workaddress}{\protect\DCMinstitution\space is deprecated, use \protect\WAinstit
                           155 (/package)
                           156 (*ltxml)
                           157 DefKeyVal('wa@institution','id','Semiverbatim');
                           158 DefKeyVal('wa@institution','url','Semiverbatim');
                           159 DefKeyVal('wa@institution','partof','Semiverbatim');
                           160 DefConstructor('\WAinstitution OptionalKeyVals:wa@institution {}','',
                           161 afterDigest=>sub {
                           162
                                    my ($stomach,$whatsit)=@_;
                           163 my $keys=$whatsit->getArg(1);
                           164 my $name=ToString($whatsit->getArg(2));
                           $\text{165} $\text{keys->setValue('name',$name);}
                           166 ExportMetadata($keys);
                           167 return;
                           168 });#$
                           169 (/ltxml)
```

126 \addmetakey\*{wa@institution}{url}
127 \addmetakey\*{wa@institution}{partof}

## 4.4 Applications

\WAauthorblock This internal macro builds an author block from a list of \WAperson labels in \wa@creators. 170 (\*package) 171 \addmetakey[false]{WAauthorblock}{dept}[true] 172 \addmetakey[false] {WAauthorblock}{aff}[true] 173 \addmetakey[false]{WAauthorblock}{url}[true] 174 \def\@true{true} 175 \newcounter{authors} 176 \newcommand\WAauthorblock[2][]{% 177 \metasetkeys{WAauthorblock}{#1} 178 {\let\tabularnewline\relax \@for\@I:=#2\do{\stepcounter{authors}} 180 \@for\@I:=#2\do 181 182 \xdef\@@dept{\wa@ref{person}\@I{department}} 183 184 \xdef\@shortname{\csname wa@institution@\@dept @shortname\endcsname} 185 \xdef\@dept{\ifx\@shortname\@empty\wa@ref{institution}\@@dept{name}\else\@shortname\fi} \xdef\@depts{\@depts&\@dept} 186 \xdef\@@aff{\wa@ref{person}\@I{affiliation}} 187 \xdef\@shortname{\csname wa@institution@\@@aff @shortname\endcsname} 188 189 190  $\label{lem:local_con} $$ \xdef\{\urls}\) $$ \xdef\{\urls}\) $$$ 191 192 \message{\theauthors authors: \@authors}} \begin{tabular}[t]{l\*{\theauthors}{c}} 193 \@authors\\ 194 \ifx\WAauthorblock@dept\@true\@depts\\\fi 195 \ifx\WAauthorblock@aff\@true\@affs\\\fi 196 197 \ifx\WAauthorblock@url\@true\@urls\\\fi 198 \end{tabular}} 199 (/package) 200 % \begin{macrocode} 201 % \end{macro} 202 % 203 % \begin{macro}{\wapname} 204 % \begin{macrocode} 205 (\*package) 206 \newcommand\wapname[1]{\wa@ref{person}{#1}{name}} 207 (/package) \waptname 208 (\*package) 209 \newcommand\waptname[1]{\wa@ref{person}{#1}{personaltitle} \wa@ref{person}{#1}{name}} 210 (/package)

EdN:5 \wa@institution@logo

 $<sup>^5\</sup>mathrm{EdNote}\colon$  this code should probably be refactored into workaddress.dtx

```
211 \*package\
212 \newcommand\wa@institution@logo[2][]{%
213 \pgfdeclareimage[#1]{logo}{\wa@ref{institution}{#2}{logo}}}
214 \IfFileExists{\wa@ref{institution}{#2}{logo}}%
215 {\pgfuseimage{logo}}
216 {\fbox{#2 logo}\message{still need logo for #2}}}
217 \/package\
```

#### 4.5 Finale

Finally, we need to terminate the file with a success mark for perl. 218  $\langle |txml \rangle 1$ ;

# References

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