

The `unresolved` package

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1 Introduction

The package collects unknown statements and makes a list of unresolved items.

2 Install

```
latex unresolved.ins
bash install.sh
```

3 Usage

input

```
\setPrefixUnresolvedProblems{p}

Text about  $\mathbf{p(n)}$ 
\unknown{Explanation of partition function  $\mathbf{p(n)}$ }.
Another\unknown{Different math,  $\alpha+\beta$ }.
Third\unknown{Plain text only}.

\bigskip
\setNameUnresolvedProblems{Onopgeloste problemen}
\unresolveditems
```

output

Text about $\mathbf{p(n)}$ ^{p1}. Another^{p2}. Third^{p3}.

Onopgeloste problemen

p1 Explanation of partition function $p(n)$

p2 Different math, $\alpha + \beta$

p3 Plain text only

4 Implementation

4.1 unresolved.sty

```
1 \RequirePackage{hyperref}

\UK@prefix

2 \def\UK@prefix{}

\setPrefixUnresolvedProblems

3 \newcommand{\setPrefixUnresolvedProblems}[1]{\gdef\UK@prefix{#1}}

4 \newcounter{counter@unknown}
5 \let\@unresolveditems\relax

\unknown

6 \newcommand{\unknown}[1]{%
7   \stepcounter{counter@unknown}%
8   \edef\UK@num{\UK@prefix\thecounter@unknown}% expand counter to string
9   \hypertarget{UK\UK@num}{\textsuperscript{\UK@num}}%
10  \ifx\@unresolveditems\relax\gdef\@unresolveditems{}\fi%
11  \begingroup
12  \protected@edef\next{\endgroup\noexpand\g@addto@macro\noexpand\@unresolveditems{\noexpand\item #1}%
13  \next
14 }

\nameunresolvedproblems

15 \def\nameunresolvedproblems{Unresolved problems}

\setNameUnresolvedProblems

16 \newcommand{\setNameUnresolvedProblems}[1]{\gdef\nameunresolvedproblems{#1}}

\unresolveditems

17 \newcommand{\unresolveditems}{%
18 \ifx\@unresolveditems\relax\else%
19 \section*{\nameunresolvedproblems}%
20 \begin{itemize}
21 \@unresolveditems
22 \end{itemize}
23 \fi%
24 }
```

4.2 unresolved.sty.ltxml

```
1  # -*- mode: Perltidy -*-
2  # LaTeXML bindings for local.sty
3
4  package LaTeXML::Package::pool; # to put new subs & variables
   in common pool
5  use LaTeXML::Package; # to load these definitions
6  use strict; # good style
7  use warnings;
8
9  RawTeX(<<'EOTeX');
10 \ProvidesPackage{unresolved}
11 \RequirePackage{hyperref}
12 \def\UK@prefix{}
13 \newcommand{\setPrefixUnresolvedProblems}[1]{\gdef\UK@prefix{#
   1}}
14 \newcounter{counter@unknown}
15 \let\@unresolveditems\relax
16 \newcommand{\unknown}[1]{%
17   \stepcounter{counter@unknown}%
18   \edef\UK@num{\UK@prefix\thecounter@unknown}% expand counter
   to string
19   \hypertarget{UK\UK@num}{\textsuperscript{\UK@num}}%
20   \ifx\@unresolveditems\relax\gdef\@unresolveditems{}\fi%
21   \begingroup
22   \protected@edef\next{\endgroup\noexpand\g@addto@macro\
   noexpand\@unresolveditems{\noexpand\item[\noexpand\
   hyperlink{UK\UK@num}{\UK@num}] #1}}%
23   \next
24 }
25 \def\nameunresolvedproblems{Unresolved problems}
26 \newcommand{\setNameUnresolvedProblems}[1]{\gdef\
   nameunresolvedproblems{#1}}
27 \newcommand{\unresolveditems}{
28   \ifx\@unresolveditems\relax\else%
29   \section*{\nameunresolvedproblems}
30   \begin{itemize}
31   \@unresolveditems
32   \end{itemize}
33   \fi%
34 }
35 EOTeX
36
37 1;
```

Change History

v0.3	v0.4
General: Tikz- partitions 1	General: ltxml preamble correction by removing 1

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Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

Symbols	\gdef 3, 10, 16	R
\@unresolveditems 5, 10, 12, 18, 21	H	\relax 5, 10, 18
B	\hyperlink 12	\RequirePackage 1
\begin 20	\hypertarget 9	S
\begingroup 11	I	\section 19
D	\ifx 10, 18	\setNameUnresolvedProblems <u>16</u>
\def 2, 15	\item 12	\setPrefixUnresolvedProblems <u>3</u>
E	L	\stepcounter 7
\edef 8	\let 5	T
\else 18	N	\textsuperscript 9
\end 22	\nameunresolvedproblems <u>15</u> , 16, 19	\thecounter@unknown 8
\endgroup 12	\newcounter 4	U
F	\next 12, 13	\UK@num 8, 9, 12
\fi 10, 23	\noexpand 12	\UK@prefix <u>2</u> , 3, 8
G	P	\unknown <u>6</u>
\g@addto@macro 12	\protected@edef 12	\unresolveditems <u>17</u>