

The **abbrev** package*

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Abstract

This package provides macros for typesetting abbreviations. It was developed at the Swiss Federal Institute of Technology Zurich (ETH-Zurich).

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1 Introduction

This package was developed in order to ease the typesetting of abbreviations in \LaTeX .

2 Usage

Just like any other package, you need to request this package with a `\usepackage` command in the preamble.

3 Implementation

The implementation is quite straightforward. We first request the `etoolbox` package for implementation purpose, `xspace` for utilising the spacing, and `nomenc1` for creating list of abbreviations.

```
\RequirePackage{etoolbox}  
\RequirePackage{xspace}  
\RequirePackage{nomenc1}
```

In the subsequent, we define the main meta-macro for creating abbreviation macros.

*This document corresponds to `abbrev` ?, dated ?.

`\newabbrev` The `newabbrev`

```

\newcommand{\newabbrev}[3][{}]{%
  \expandafter\ifstrequal\expandafter{#1}{%{
    \abbrev@create{#2}{#2}{#3}
  }{
    \abbrev@create{#1}{#2}{#3}
  }
}

```

`\resetabbrev` Reset the all abbreviation macros to full mode.

```

\newcommand{\resetabbrev}{%
  Reset the following macros:\\
  \renewcommand*{\do}[1]{
    Macros: ##1 \\
    \csuse{##1@init}
  }
  \dolistloop{\abbrev@list}
}

```

`\abbrev@create` The main worker meta-macro for creating the abbreviation macros is implemented as follows.

```

\newcommand{\abbrev@create}[3]{%
  \newtoggle{#1@toggle}
  \listadd{\abbrev@list}{#1}
  \abbrev@init{#1}{#2}{#3}
  \csuse{#1@init}
}

\newcommand{\abbrev@init}[3]{%
  \expandafter\def\csname#1@init\endcsname{%
    \togglefalse{#1@toggle}
    \expandafter\def\csname#1\endcsname{%
      \iftoggle{#1@toggle}{%
        #2\xspace
      }{
        \nomenclature{#2}{#3}
        \toggletrue{#1@toggle}
        #3 (#2)\xspace%
      }
    }
    \expandafter\def\csname#1\endcsname{#2\xspace}%
  }

  \expandafter\def\csname#1s\endcsname{%
    \iftoggle{#1@toggle}{%
      #2s\xspace
    }{
      \nomenclature{#2}{#3}
      \toggletrue{#1@toggle}
      #3s (#2s)\xspace%
    }
    \expandafter\def\csname#1s\endcsname{#2s\xspace}%
  }
}

```

```

    }
}

```

Change History

v1.0 `\newabbrev`: Macro created 2
 General: Initial version 1

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