

The `enumsb` package

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1 Introduction

The `enumsb` package provides seamless integration between `enumitem` and inline sublists with perfect alignment and automatic numbering. It solves the common alignment inconsistencies that occur when trying to combine `enumitem` and `tasks` packages.

The package offers:

- Perfect alignment of inline sub-items with dynamic label styling
- Multiple numbering schemes (Roman, alphabetic, Arabic)
- Customizable spacing and dimensions
- Easy-to-use semicolon-separated syntax
- Non-breaking inline layout with consistent spacing

2 Usage

2.1 Basic Usage

The main command is `\enumsb`, which takes semicolon-separated items and displays them inline with automatic numbering:

```
\begin{enumerate}  
  \item  
  \begin{enumerate}  
    \item \enumsb{yes; no; maybe}  
    \item \enumsb{option A; option B}  
  \end{enumerate}  
\end{enumerate}
```

2.2 Package Options

The package supports three numbering styles:

- `roman` (default): Uses Roman numerals (i), (ii), (iii)
- `alpha`: Uses alphabetic numbering (a), (b), (c)

- `arabic`: Uses Arabic numerals (1), (2), (3)

Load the package with: `\usepackage[roman]{enums}`

2.3 Customization

You can adjust the spacing using:

- `\setenumslabelwidth{<width>}` – Width of the label column
- `\setenumsitemwidth{<width>}` – Width of each item column

3 Examples

1. This is a main question.

- | | | | | | | |
|-----|-----|------------|------|-------|-------|-------|
| (a) | (i) | yes | (ii) | no | | |
| (b) | (i) | definitely | (ii) | maybe | (iii) | never |

4 Implementation

5 Implementation

```

1 (*package)
   Load required packages:
2 \RequirePackage{enumitem}
3 \RequirePackage{xparse}
4 \RequirePackage{array}
5 \RequirePackage{etoolbox}

\if@enums@roman Package options for numbering styles:
\if@enums@alpha 6 \newif\if@enums@roman
\if@enums@arabic 7 \newif\if@enums@alpha
8 \newif\if@enums@arabic
9 \@enums@romantrue

   Declare and process options:
10 \DeclareOption{roman}{\@enums@romantrue\@enums@alphafalse\@enums@arabicfalse}
11 \DeclareOption{alpha}{\@enums@alphatrue\@enums@romanfalse\@enums@arabicfalse}
12 \DeclareOption{arabic}{\@enums@arabictrue\@enums@romanfalse\@enums@alphafalse}
13 \ProcessOptions\relax

\enums@labelwidth Customizable dimensions:
\enums@itemwidth 14 \newdimen\enums@labelwidth
15 \newdimen\enums@itemwidth
16 \enums@labelwidth=2.2em
17 \enums@itemwidth=1.5cm

\setenumslabelwidth User commands to adjust spacing:
\setenumsitemwidth 18 \newcommand{\setenumslabelwidth}[1]{\enums@labelwidth=#1}
19 \newcommand{\setenumsitemwidth}[1]{\enums@itemwidth=#1}

```

```

\c@enums@counter Subpart counter that resets at each \item:
20 \newcounter{enums@counter}
21 \pretocmd{\item}{\setcounter{enums@counter}{0}}{}{}

\enums@getlabel Determine label format based on options:
22 \newcommand{\enums@getlabel}{%
23   \if@enums@roman%
24     \textbf{\roman{enums@counter}}%
25   \else\if@enums@alpha%
26     \textbf{\alph{enums@counter}}%
27   \else\if@enums@arabic%
28     \textbf{\arabic{enums@counter}}%
29   \fi\fi\fi%
30 }

\enums Core macro for aligned subparts:
31 \NewDocumentCommand{\enums}{>\SplitList{;}m}{%
32   \begin{tabular}{@{}*{10}{l}@{}}%
33     \ProcessList{#1}{\enums@renderitem}%
34   \end{tabular}%
35 }

\enums@renderitem Render individual subpart:
36 \newcommand{\enums@renderitem}[1]{%
37   \stepcounter{enums@counter}%
38   \makebox[\enums@labelwidth][l]{\enums@getlabel} &
39   \makebox[\enums@itemwidth][l]{#1}%
40 }

Alternative command names for convenience:
41 \let\AutoSubpartsAligned\enums
42 \let\subparts\enums
43 \let\inlineparts\enums

Predefined list styles:
44 \SetEnumitemKey{mainq}{label=\textbf{\arabic*},%
45   leftmargin=2em,%
46   itemsep=0.2em,%
47   topsep=0.5em}
48 \SetEnumitemKey{subq}{label=\textbf{\alph*}},%
49   leftmargin=2.8em,%
50   itemsep=0.2em,%
51   topsep=0.3em}
52 \end{package}

```

6 Change History

v1.0
 General: Initial version 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.

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