

The `enums` Package

Examples and Demonstrations

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1 Introduction

This document demonstrates the capabilities of the `enums` package, which provides aligned inline sublists that integrate seamlessly with `enumitem`.

2 Basic Examples

2.1 Simple Multiple Choice Questions

Here's a typical multiple choice setup:

1. What is the capital of France?
(a) (i) London (ii) Paris (iii) Berlin (iv) Madrid
2. Which of these are programming languages?
(a) (i) Python (ii) JavaScript
(b) (i) HTML (ii) CSS
(c) (i) C++ (ii) Java (iii) Ruby
3. True or false questions:
(a) The Earth is flat. (i) True (ii) False
(b) LaTeX is awesome. (i) True (ii) False
(c) $2 + 2 = 5$. (i) True (ii) False

3 Different Numbering Styles

3.1 Current Style (Roman)

With the `roman` option, sublists use Roman numerals:

1. Choose the correct answer:
(a) (i) Option A (ii) Option B (iii) Option C

4 Customization Examples

4.1 Custom Spacing

Let's adjust the spacing for longer options:

- Which programming paradigm do you prefer?
 - (i) Object-Oriented Programming
 - (ii) Functional Programming
 - (b) (i) Procedural Programming
 - (ii) Logic Programming

5 Alternative Command Names

The package provides several aliases for convenience:

- Using `\subparts`:
 - (a) (i) yes
 - (ii) no
 - (iii) maybe
- Using `\AutoSubpartsAligned`:
 - (a) (i) agree
 - (ii) disagree
 - (iii) neutral
- Using `\inlineparts`:
 - (a) (i) always
 - (ii) sometimes
 - (iii) never

6 Complex Questionnaire Example

Here's a more realistic questionnaire:

- How often do you use LaTeX?
 - (a) (i) Daily
 - (ii) Weekly
 - (iii) Monthly
 - (iv) Rarely
 - (v) Never
- What type of documents do you create with LaTeX? (Select all that apply)
 - (a) (i) Academic papers
 - (ii) Books
 - (b) (i) Presentations
 - (ii) Letters
 - (c) (i) Reports
 - (ii) Theses
- Rate your LaTeX expertise:
 - (a) (i) Beginner
 - (ii) Intermediate
 - (iii) Advanced
 - (iv) Expert
- Which LaTeX editor do you prefer?
 - (a) (i) TeXstudio
 - (ii) Overleaf
 - (iii) TeXworks
 - (b) (i) Vim/Emacs
 - (ii) VS Code
 - (iii) Other

7 Mathematical Content

The package works well with mathematical expressions:

- What is $\int_0^1 x^2 dx$?
 - (a) (i) $\frac{1}{3}$
 - (ii) $\frac{1}{2}$
 - (iii) 1
 - (iv) $\frac{2}{3}$

2. Which of these are prime numbers?

- (a) (i) 2 (ii) 3 (iii) 4
(b) (i) 5 (ii) 6 (iii) 7

8 Comparison with Standard Methods

8.1 Without `enumsub` (misaligned)

This is how it looks without proper alignment:

1. Question without `enumsub`:

- (a) (i) Option 1 (ii) Option 2 (iii) Option 3

8.2 With `enumsub` (perfectly aligned)

1. Same question with `enumsub`:

- (a) (i) Option 1(ii) Option 2(iii) Option 3

9 Tips and Best Practices

- Keep option text concise for best alignment
- Use consistent spacing throughout your document
- The semicolon separator makes editing easy
- Counters automatically reset at each `\item`
- Works well with `hyperref` for clickable links

10 Package Information

- **Package:** `enumsub` v1.0
- **Author:** Srikanth Mohankumar
- **License:** LPPL 1.3c
- **Dependencies:** `enumitem`, `xparse`, `array`, `etoolbox`