# The mwe-if Package*

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**Abstract**

The mwe-if package provides macros and environments to assist blah, blah.

# Contents

# 1 Introduction

The mwe-if package simplifies...

# 2 Usage

Put text here about how to use it.

Package Options `[alph]` (default) question numbering as 1(b)(iii) `[roman]` varies question numbering to sequence used by M381 i.e. 1(ii)(c) `[cleveref]` question numbering creates automatic referencing for use with cleveref package `[pdfbookmark]` add PDF bookmarks for each question using hyperref package `[legacy]` enables old definitions of `\vec` and `\C` for backward compatibility

To use a package option, place the option(s) before the package name: `\usepackage[roman,cleveref]{tma}`

Follow up with a list of commands/macros.

`\name`    It's a name etc.

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*This document corresponds to mwe-if ?, dated ?.

# 3   Implementation

```
1 \RequirePackage{expl3} % LaTeX3 "experimental"
```

## 3.1   Package Initialisation

```
2 \RequirePackage{xifthen}
3
4 % Define counters for the sectional parts
5 \newcounter{ctri}
6 \newcounter{ctrii}[ctri]
7 \newcounter{ctriii}[ctrii]
8 \renewcommand{\thectri}{\arabic{ctri}}
9
10 % Define boolean flags
11 \newif\ifmwe@roman
12 \newif\ifmwe@usecleveref
13 \newif\ifmwe@usepdfbookmark
14 \newif\ifmwe@legacy
15
16 % Set default options
17 \mwe@romanfalse           % Default numbering is 'alph'
18 \mwe@useclevereffalse     % Default is not to use cleveref
19 \mwe@usepdfbookmarkfalse  % Default is not to use pdfbookmark
20 \mwe@legacyfalse          % Default is not to use legacy definitions
21
22 % Define commands with default values
23 \renewcommand{\thectrii}{\alph{ctrii}}
24 \renewcommand{\thectriii}{\roman{ctriii}}
25 \NewDocumentCommand{\mwe@crefname}{mmm}{\relax}
26 \NewDocumentCommand{\mwe@stepcounter}{m}{\stepcounter{#1}}
27 \NewDocumentCommand{\mwe@bookmark}{O{0}mm}{\relax}
28 \NewDocumentCommand{\mwe@pageref}{m}{\pageref{#1}}
29
30 % Declare options
31 \DeclareOption{roman}{%
32  \mwe@romantrue%
33 }
34
35 \DeclareOption{alph}{%
36  \mwe@romanfalse%
37 }
38
39 \DeclareOption{cleveref}{%
40  \mwe@useclevereftrue%
41 }
42
43 \DeclareOption{pdfbookmark}{%
44  \mwe@usepdfbookmarktrue%
45 }
46
47 \DeclareOption{legacy}{%
48  \mwe@legacytrue%
49 }
50
```

```latex
51 \DeclareOption*{%
52  \PackageWarning{mwe}{Unknown option '\CurrentOption'}%
53 }
54
55 % Process options
56 \ProcessOptions\relax
57
58 \typeout{**************** OPTION RESULTS **********}
59 \ifmwe@usepdfbookmark
60 \typeout{pdfbookmark is TRUE}
61 \else
62 \typeout{pdfbookmark is FALSE}
63 \fi
64 \ifmwe@roman
65 \typeout{roman is TRUE}
66 \else
67 \typeout{roman is FALSE}
68 \fi
69 \ifmwe@usecleveref
70 \typeout{cleveref is TRUE}
71 \else
72 \typeout{cleveref is FALSE}
73 \fi
74 \ifmwe@legacy
75 \typeout{legacy is TRUE}
76 \else
77 \typeout{legacy is FALSE}
78 \fi
79 \typeout{************ END OPTION RESULTS **********}
80
81 \endinput
```