

# The outlining package\*

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## 1 Introduction

Every scientific document requires outlining before it is written. The following paragraph shows outline plus final text.

### Best-practices outlines

A best-practices are three level outlines.

1 *Each pararagraph shall have a single topic*

2 *Each topic consists of multiple major points*

2.1 Major may have optional minor points

### Document Outline

<b>Best-practices outlines . . . . .</b>	<b>1</b>
1 <i>Each pararagraph shall have a single topic . . . . .</i>	1
2 <i>Each topic consists of multiple major points . . . . .</i>	1
2.1 Major may have optional mi- nor points . . . . .	1

## 2 Implementation

Some internal macros:

```
1 \newcommand{\@disableOutlining}{}  
2 \newcommand{\@disableTopics}{}  
3 \newcommand{\@disableMajors}{}  
4 \newcommand{\@disableMinors}{}  
5 \newcommand{\@outlineAtBegin}{}  
6 \newcommand{\@outlineAtEnd}{}  
7
```

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\*This document corresponds to outlining v0.1, dated 2017/10/23.

## 2.1 Package Options

<code>disable</code>	Disable all package output 7 <code>\DeclareOption{disable}{\renewcommand{\@disableOutlining}{disable}}</code>
<code>outlineatbegin</code>	Outline at document begin 8 <code>\DeclareOption{outlineatbegin}{\renewcommand{\@outlineAtBegin}{\listOutline}}</code>
<code>outlineatend</code>	Outline at document end 9 <code>\DeclareOption{outlineatend}{\renewcommand{\@outlineAtEnd}{\listOutline}}</code>
<code>beamer</code>	Prepare output as beamer frames 10 <code>\DeclareOption{beamer}{\newcommand{\@beamer}{}}</code>

## 2.2 Activation Commands

	11 <code>\ProcessOptions\relax</code> 12 13 <code>\usepackage{xifthen}</code> 14 <code>\ifthenelse{\isundefined{\@beamer}}{}</code> 15 <code>{\usepackage[obeyFinal, \@disableOutlining]{todonotes}}</code> 16 <code>{}</code> 17 18 <code>\newcounter{majornum}</code> 19 <code>\newcounter{minornum}</code> 20 <code>\AtBeginDocument{\@outlineAtBegin}</code> 21 <code>\AtEndDocument{\@outlineAtEnd}</code>
<code>\outlineTopics</code>	Activate topics and deactivate major and minor points 22 <code>\newcommand{\outlineTopics}{}</code> 23 <code>\renewcommand{\@disableTopics}{}</code> 24 <code>\renewcommand{\@disableMajors}{disable}</code> 25 <code>\renewcommand{\@disableMinors}{disable}</code> 26 <code>}</code>
<code>\outlineTopicsMajors</code>	Activate topic and major points and deactivate minor points 27 <code>\newcommand{\outlineTopicsMajors}{}</code> 28 <code>\renewcommand{\@disableTopics}{}</code> 29 <code>\renewcommand{\@disableMajors}{}</code> 30 <code>\renewcommand{\@disableMinors}{disable}</code> 31 <code>}</code>
<code>\outlineTopicsMajorsMinors</code>	Activate topics, major and minor points 32 <code>\newcommand{\outlineTopicsMajorsMinors}{}</code> 33 <code>\renewcommand{\@disableTopics}{}</code> 34 <code>\renewcommand{\@disableMajors}{}</code> 35 <code>\renewcommand{\@disableMinors}{}</code> 36 <code>}</code>

## 2.3 Main Commands/Environment

`topic` Topic environment containing major/minor points

```

37 \newenvironment{topic}[1] []
38 {\ifthenelse{\isundefined{\@beamer}}
39   {\setcounter{majornum}{0}\setcounter{minornum}{0}\todo
40     [color=red!40, size=\footnotesize, inline,\@disableTopics]
41     {\textbf{#1}}}
42   {\begin{frame}\frametitle{#1} \itemize\@newlistfalse}
43 }
44 {\ifthenelse{\isundefined{\@beamer}}
45   {}
46   {\enditemize \end{frame}}}
47 }

```

`\major` Major point

```

48 \newcommand{\major}[1]
49 {\ifthenelse{\isundefined{\@beamer}}
50   {\stepcounter{majornum}\setcounter{minornum}{0}\todo
51     [color=green!10, size=\footnotesize, inline,\@disableMajors]
52     {\textit{\themajornum \enspace #1}}}
53   {\item #1}
54 }
55

```

`\minor` Minor point

```

56 \newcommand{\minor}[1]
57 {\ifthenelse{\isundefined{\@beamer}}
58   {\stepcounter{minornum}\todo
59     [color=gray!10, size=\footnotesize, inline, \@disableMinors]
60     {\themajornum.\theminornum \enspace #1}}
61   {
62     %\begin{itemize}
63     % \item #1
64     %\end{itemize}
65   }
66 }

```

`\listOutline` Outline list

```

67 \newcommand{\listOutline}{
68 \clearpage
69 \listoftodos[Document Outline]
70 \clearpage
71 }

```

## 2.4 Statement Relations

`\hence` From statement A results in statement B

```

72 \newcommand{\hence}{\$\rightarrow$ }

```

`\summary` Summary of previous statements  
`73 \newcommand{\summary}{\boldmath $\varSigma$ }`

`\resolved` Requirement statement fulfilled  
`74 \newcommand{\resolved}{\textbf{\checkmark}}`

`\missd` Requirement statement not fulfilled  
`75 \newcommand{\missd}{\textbf{X}}`