The **dprogress** package*

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1 Installation

1. `pdflatex dprogress.ins`

2. `pdflatex dprogress.dtx`

3. Copy the generated file `dprogress.sty` into a directory where latex can find it.

2 Introduction

This package logs latex's dprogress through the file, making the latex output more verbose. This helps to make latex debugging easier, as it is simpler to find where exactly latex failed. It outputs the typesetting of section, subsection, subsubsection headers and the align environment. The align environment is only output if the amsmath package is loaded.

3 Usage

Use
`\usepackage{dprogress}`
as the last include, and read the latex output.

4 Implementation

\dprogress@Display   A macro to typeout a header in a very obtrusive style

```
1 \newcommand{\dprogress@Display}[3]{%
2   \typeout{#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1#1
3   \typeout{#1 #2: #3}%
4   \typeout{}
5 }
```

\align Redefinition of the amsmath displayed equation environment. Output the equation number.

```
6   \ifdefined\align
7     \message{\string\foo\space is defined}%
8       \let\dprogress@OldAlign\align
9       \renewcommand{\align}{%
10        \typeout{}%
11        \typeout{= Equation: \theequation}%
12        \typeout{}%
13        \dprogress@OldAlign%
14      }
15  \else
16    \message{Progress: the align command is not defined, not overriding. If you use amsmath, b
17  \fi
```

\part Redefinition of the \part command. Output the section number and title.

```
18  \ifdefined\part
19    \let\dprogress@OldPart\part
20    \renewcommand{\part}{%
21      \@ifstar
22      \dprogress@DisplayPartStar%
23      \dprogress@DisplayPartNoStar%
24    }
25    \newcommand{\dprogress@DisplayPartNoStar}[1]{%
26      \dprogress@Display{*}{Part \thepart}{#1}
27      \dprogress@OldPart{#1}%
28    }
29    \newcommand{\dprogress@DisplayPartStar}[1]{%
30      \dprogress@Display{*}{Part \thepart}{#1}
31      \dprogress@OldPart*{#1}%
32    }
33  \else
34    \message{Progress: the part command is not defined, not overriding. Be sure to include dp
35  \fi
```

\chapter Redefinition of the \chapter command. Output the section number and title.

```
36  \ifdefined\chapter
37    \let\dprogress@OldChapter\chapter
38    \renewcommand{\chapter}{%
39      \@ifstar
40      \dprogress@DisplayChapterStar%
41      \dprogress@DisplayChapterNoStar%
42    }
43    \newcommand{\dprogress@DisplayChapterNoStar}[1]{%
44      \dprogress@Display{*}{Chapter \thechapter}{#1}
45      \dprogress@OldChapter{#1}%
46    }
47    \newcommand{\dprogress@DisplayChapterStar}[1]{%
48      \dprogress@Display{*}{Chapter \thechapter}{#1}
49      \dprogress@OldChapter*{#1}%
50    }
51  \else
52    \message{Progress: the chapter command is not defined, not overriding. Be sure to include
53  \fi
```

\section Redefinition of the \section command. Output the section number and title.

```
54  \ifdefined\section
55    \let\dprogress@OldSection\section
56    \renewcommand{\section}{%
57      \@ifstar
58      \dprogress@DisplaySectionStar%
59      \dprogress@DisplaySectionNoStar%
60    }
61    \newcommand{\dprogress@DisplaySectionNoStar}[1]{%
62      \dprogress@Display{*}{Section \thesection}{#1}
63      \dprogress@OldSection{#1}%
64    }
65    \newcommand{\dprogress@DisplaySectionStar}[1]{%
66      \dprogress@Display{*}{Section \thesection}{#1}
67      \dprogress@OldSection*{#1}%
68    }
69  \else
70    \message{Progress: the section command is not defined, not overriding. Be sure to include
71  \fi
```

\section Redefinition of the \subsection command. Output the section number and title.

```
72  \ifdefined\subsection
73    \let\dprogress@OldSubSection\subsection
74    \renewcommand{\subsection}{\@ifstar
75      \dprogress@DisplaySubSectionStar%
76      \dprogress@DisplaySubSectionNoStar%
77    }
78    \newcommand{\dprogress@DisplaySubSectionNoStar}[1]{%
79      \dprogress@Display{+}{Subsection \thesubsection}{#1}
80      \dprogress@OldSubSection{#1}%
81    }
82    \newcommand{\dprogress@DisplaySubSectionStar}[1]{%
83      \dprogress@Display{+}{Subsection \thesubsection}{#1}
84      \dprogress@OldSubSection*{#1}%
85    }
86  \else
87    \message{Progress: the subsection command is not defined, not overriding. Be sure to inclu
88  \fi
```

\section Redefinition of the \subsubsection command. Output the section number and title.

```
89   \ifdefined\subsubsection
90     \let\dprogress@OldSubSubSection\subsubsection
91     \renewcommand{\subsubsection}{\@ifstar
92       \dprogress@DisplaySubSubSectionStar%
93       \dprogress@DisplaySubSubSectionNoStar%
94     }
95     \newcommand{\dprogress@DisplaySubSubSectionNoStar}[1]{%
96       \dprogress@Display{-}{Subsubsection \thesubsection}{#1}
97       \dprogress@OldSubSubSection{#1}%
98     }
99     \newcommand{\dprogress@DisplaySubSubSectionStar}[1]{%
100      \dprogress@Display{-}{Subsubsection \thesubsection}{#1}
101      \dprogress@OldSubSubSection*{#1}%
```

```
102     }
103 \else
104     \message{Progress: the subsubsection command is not defined, not overriding. Be sure to in
105 \fi
```