



Bell Laboratories

subject: NROFF Macros for Producing
Documents on UNIX

date: March 29, 1974

from: G. C. Vogel

PROGRAMMER'S NOTES

I. Introduction

An NROFF macro package has been written to aid the preparation of documents on UNIX. In particular, this package provides section titling and numbering, paragraph and table format control, and a table of contents. The macros for producing tables and indented paragraphs are similar to those written by Brian Kernighan and Mike Lesk.

II. Numbered Section Headings

There are three commands for producing numbered section headings. If you type

.NA "Numbered Section Headings"

you will get an automatically numbered major section title like the one at the beginning of this section.

Two sublevels of section titling are also available. If you type

.NB "First Sublevel Section Sample Title"

.NC "Second Sublevel Title"

you will get automatically numbered titles like this:

2.1 First Sublevel Section Title

2.1.1 Second Sublevel Title

III. Unnumbered Section Headings

Unnumbered section headings may be obtained by typing

.NX "Example of an Unnumbered Title"

which would yield a centered and underlined title like this.

Example of an Unnumbered Title

IV. Minor Numbering

Minor numbering is generated with the .NZ command. These numbers are reset to start from one in each section. For example, typing the lines:

.NZ

Minor numbers are placed at the beginning of the next line of text.

.NZ

Minor numbers are written in lower case Roman.

produces the lines

(i) Minor numbers are placed at the beginning of the next line of text.

(ii) Minor numbers are written in lower case Roman.

V. Text

5.1 Normal Paragraphs

Text is typed normally, except that the command .PP should be placed at the start of each paragraph. This produces indenting and an extra line of space.

5.2 Indented Paragraphs

Indented paragraphs with hanging titles can be generated with the .IP command like this:

.IP [1]

Text for the first paragraph, typed normally for as many lines as needed.

.IP [2]

Text for the second paragraph.

which produces

- [1] Text for the first paragraph, typed normally for as many lines as needed.
- [2] Text for the second paragraph.

VI. Tables

To produce tables in which the lines are not re-arranged (not filled), enclose them in the commands .TS and .TE.

```
.TS
table lines are typed
here as they are to
appear in the printed table.
.TE
```

VII. Table of Contents

A table of contents like the one at the end of these notes is generated by issuing a .TC command at the end of the document.

VIII. Availability

The macro package described in these notes is on the UNIX Support System under the file name:

/usr/lib/nroff/ntmac

Copies may be obtained by contacting N. A. Spence: MH 2C-413, x4054.

MH-8234-GCV

Gerard C. Vogel
G. C. Vogel

Copies to UNIX Documentation Mailing List

CONTENTS

1. Introduction	1
2. Numbered Section Headings	1
2.1 First Sublevel Section Title	1
2.1.1 Second Sublevel Title	1
3. Unnumbered Section Headings	2
Example of an Unnumbered Title	2
4. Minor Numbering	2
5. Text	2
5.1 Normal Paragraphs	2
5.2 Indented Paragraphs	2
6. Tables	3
7. Table of Contents	3
8. Availability	3