

# A Sample Groff Document

*by*  
*Pintman*

## Introduction

Groff is an easy to use program for typesetting and the creation of documents. It can be controlled by several macros. In this document I will use the *mom* macro set. Its documentation is installed in your Linux environment under

```
/usr/share/doc/groff-base/html/mom/toc.html
```

If unsure look into the last paragraphs of the man page of *groff*. This document can be generated with the following command: `pdfmom -e -t groff.mom > document.pdf`.

The options `-e` and `-t` are used for preprocessing mathematical equations and table respectively.

## Basic Formatting

Words can be formatted in **bold** or *italic* by the inline macro `\f`.

## Lists

Lists can easily be created using the `LIST` and `ITEM` macro.

- First item
- Second item

Now a list with numbers

1. First item
2. Second item

## Images

Images can be inserted if they are available as PDF documents. JPEG and PNG images

can be converted with *ImageMagick*:

```
convert image.jpg image.pdf
```

Then the image can be inserted with PDF\_IMAGE macro. The dimension of the PDF must be given as parameter. It can be extracted from the PDF with `pdfinfo`.



**An avatar of me.**

## Tables

There is support for tables using the `tbl` preprocessor and the `.TS` and `.TE` macros. Each table must contain options (which are optional), formatting information and data.

To enable table preprocessing the `-t` option must be given to the `pdfmom` command.

x	f(x)=x <sup>2</sup>	g(x)=x <sup>3</sup>
1	1	1
2	4	8
3	9	81

It is generally to a good idea to put tables in FLOAT environments.

## Equations

Mathematical equations can be created with the `eqn` pre processor and the `EQ` and `EN` macros. You have to use the `-e` option for `pdfmom` to enable it.

$$x^2 = \frac{1 + \pi}{\sqrt{x}}$$

## German Umlauts

German umlauts must be specified in a special notation ä Ä ü Ü ö Ö ß. Once you understand it's easy rememberable. The man page of groff\_char will list the names of further symbols.

If the document is saved with ISO-8859-1 encoding umlauts can be entered directly: ö  
ä ü ...