# pyGroff

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May 04 ,2021

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# pyGroff, A tiny Syntax guide

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## 1. Intro

pyGroff is a tiny wrapper around groff which will let you create professional pdfs and documents in almost markdown syntax. This document is an example as well as a syntax list for easy reference. As you can see, it is also being generated by pyGroff.

## 2. Arguments needed

1) -f : input file path
2) -o : output file name. (Dont give path!)

## 3. Image

## 4. Main syntax

### 4.1. General

**Note that you have to remove the <>**

% <title> : Adds a title like the one in this document

@ <author> : Author name

< <text> : move to the center (left is default)

> <text> : move to the right

# <text> : Heading level 1

## <text> : Heading level 2.. and so on

- <text> : Lists

˜ : if you want to use one of the above in a sentence but do not want it to be formatted. Like this document.

* <text> : bold

/ <text> : italics

_ <text> : underline

+ <text> : New page

^: Superscript (Note that this should be in a new line)

### 4.2. Advanced

| <text> : Table. Format is |[title](1;3;4;5;6,1;3;4;8;9). Separate rows with , and lines with ;

! <image name.jpg> : Make sure it is in the same directory. Or specify the full path. Note that it will be converted to .eps format.

) <code> : Python code, in quotes like : "import numpy as np; z = np.random.rand(3,3);print(z)" . Please separate lines by ;

= <equation> : One equation per line. For more examples refer below

### 4.3. Need a cover page?

**Use the arguments**

1) -c True
2) -n "Your name"
3) -t "Project title"
4) -d This is optional. But it can be another date format

## 5. Limitations for now

1) If you have added a title and an author, you must add a body or you will get errors
2) Formatting can only be applied to the whole row
3) If you are using < or > , please leave a line gap
4) If you see any numbering/formatting not working, just leave a line gap. It should mostly work out. If not. File an issue

## 6. What about code

```
import numpy as np

z = np.random.rand(3,3)

 print(z)
```

Output :

```
[[0.34523441 0.29088593 0.70568845]
 [0.55066172 0.92339878 0.7173768 ]
 [0.07617482 0.57993846 0.06973461]]
```

## 7. What about tables

| **Who is cool** | | | |
|---|---|---|---|
| **me** | **me** | **me** | **you** |
| **1** | **1** | **1** | **1** |

## 8. What about equations

### 8.1. Further syntax specification for easier equations

1) != : not equals
2) >= : greater than or equals (etc etc)
3) sup : superscript
4) sub : subscript
5) over : divided by
6) pi
7) for any greek letter : just spell it out. Put spaces before and after
8) cdot : circle dot
9) del : grad symbol
10) grad : grad symbol
11) sum : sum symbol { write as from {i=1} etc }

12) int : integral
13) inf : infinity
14) partial : partial differential symbol
15) half : 1/2
16) prod : product symbol
17) union
18) inter : intersection

### 8.2. Some examples

$$\frac{a^3}{b^5}$$

$$x = 3 + 5x- = 3 + \gamma$$

$$a^{3^5} * 600$$

$$7\gamma + 10\delta = 100$$

$$f(\theta) = .8\pi r$$

$$\sum_{i=1}^{\infty} = 1000x$$

Thank you