pyGroff

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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:

```
[[0.53836351 0.25241351 0.52093701]
[0.08207256 0.80963911 0.83835987]
[0.83206604 0.76433031 0.05281519]]
```

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 : superscript4) sub : subscript5) over : divided by

6) pi

7) for any greek letter: just spell it out. Put spaces before and after

8) cdot : circle dot9) del : grad symbol10) 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

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

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

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

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

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

$$\sum_{i=1}^{\infty_1} = 1000x$$

Thank you

Table of Contents

1.	Intro	•			•		•	•		•	•	•	•	•		•		•	•		•	•	•	2
2.	Arguments needed																			•	•			2
3.	Image							•																2
4.	Main syntax																							2
	4.1. General																							2
	4.2. Advanced .																							3
	4.3. Need a cover p	age	?	•			•	•		•	•	•		•					•		•	•	•	3
5.	Limitations for nov	v																					•	4
6.	What about code																							4
7.	What about tables																							4
8.	What about equation	ons																						4
	8.1. Further syntax	spe	cif	ica	tio	n fo	or e	asi	er e	equa	atio	ns												4
	8.2. Some example	-								-														