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pyGroff, A tiny Syntax guide

Subhaditya Mukherjee

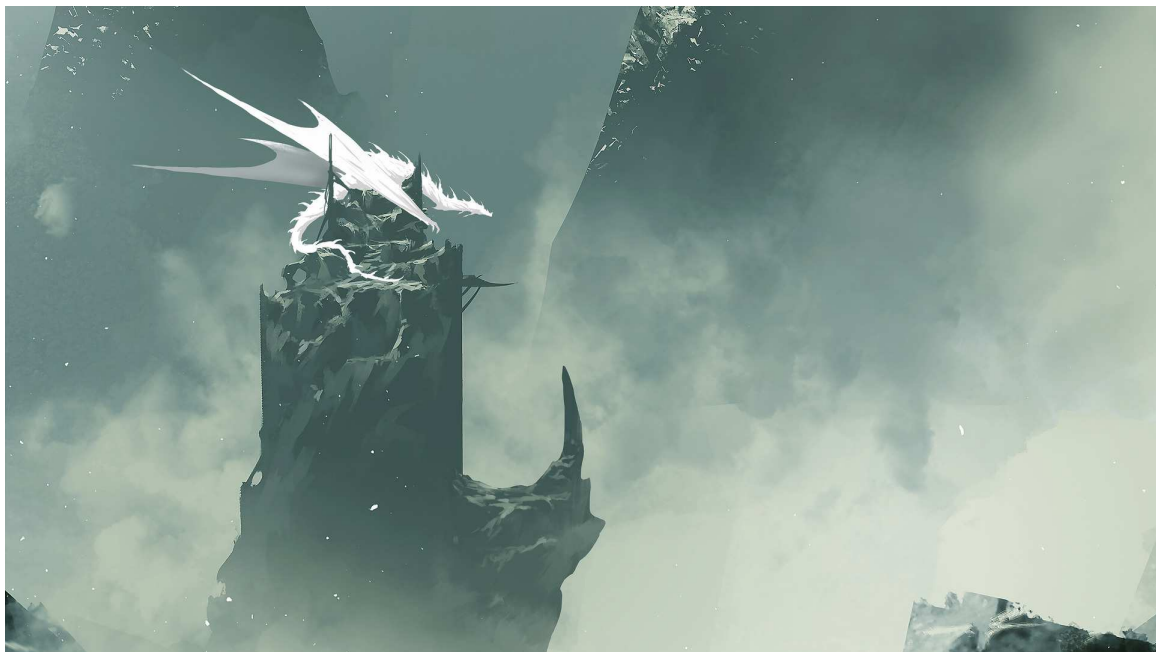
1. Intro

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 :

```
[[0.81492019 0.65460025 0.5523276 ]
 [0.25395789 0.61404248 0.16304695]
 [0.8354186  0.41737541 0.22568332]]
```

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