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
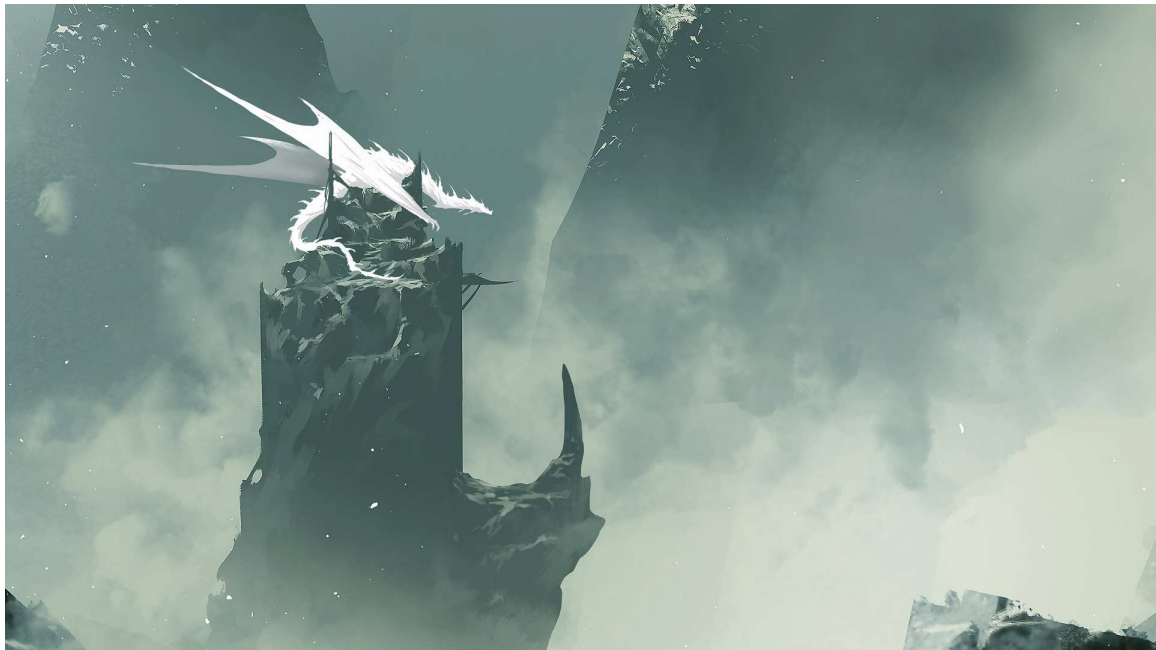
4. Main syntax

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

5) If you have added a title and an author, you must add a body or you will get errors

6) Formatting can only be applied to the whole row

7) If you are using < or > , please leave a line gap

8) 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 :

[[0.97427822 0.94279738 0.50041562]
 [0.25131924 0.02430522 0.1897459 ]
 [0.2903955  0.06537379 0.5457957 ]]
```

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

9) != : not equals

10) >= : greater than or equals (etc etc)

11) sup : superscript

12) sub : subscript

13) over : divided by

14) pi

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

16) cdot : circle dot

17) del : grad symbol

18) grad : grad symbol

19) sum : sum symbol { write as from {i=1} etc }

20) int : integral

21) inf : infinity

22) partial : partial differential symbol

23) half : 1/2

24) prod : product symbol

25) union

26) inter : intersection

8.2. Some examples

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

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

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

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

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

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

Thank you

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