

pyGroff

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## pyGroff, A tiny Syntax guide

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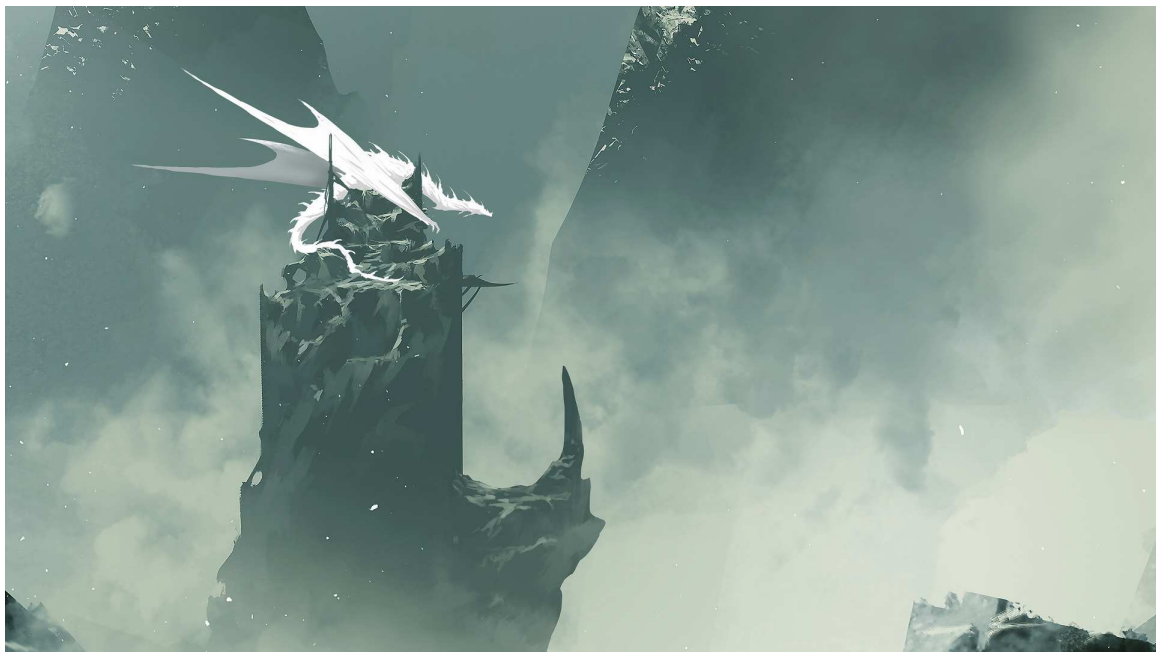
### 1. Intro

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 :

```
[[0.37232047 0.72989472 0.62947047]
 [0.05728996 0.36280011 0.53518107]
 [0.1500769  0.31867472 0.99497708]]
```

## 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

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

$$x = 3 + 5x - 3 + \textit{gamma}$$

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

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

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

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

Thank you

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