Midterm Paper Setup

Maksim Yegorov

Abstract

This is a pandoc test . . .

% build using: % $ make

Hello world!

I'm a test Markdown document.

Test Python snippets

Here's some `Python` code from file `naive.py` lines 10-30:

```
10      python3 naive.py
11  """
12
13  __author__ = "Maksim Yegorov"
14  __date__ = "2016-04-06 Wed 06:55 PM"
15
16
17  from profilers import len_recursion, time_profiler, registry
18  from generate_string import strgen
19
20
21  @time_profiler(repeat = 1)
22  def lcs_naive(seq1, seq2):
23      """Calls helper function to calculate an LCS."""
24
25      return _lcs_naive(seq1, seq2, len(seq1)-1, len(seq2)-1, "")
26
27
28  @len_recursion
29  def _lcs_naive(seq1, seq2, i, j, lcs):
30      """Naive recursive solution to LCS problem. See CLRS pp.392-393
        for
```

Here's some bold text and *here's some italic text.* `This is inline code.`

Simple Table

You can include inline markdown in your csv file. It will be parsed by the pandoc markdown reader. You can also specify column alignments in the [configuration string][config].

Table 1: A **simple** *table*.

Numbers	*Words*
1	**Yes**
2^2	*No*
3	Yes

```
1 Numbers,_Words_
2 1,**Yes**
3 2^2^,*No*
4 **_3_**,Yes
```

Markdown Tables

First Name	Last Name	Location	Allegiance
Mance	Rayder	North of the Wall	Wildlings
Margaery	Tyrell	The Reach	House Tyrell
Danerys	Targaryen	Meereen	House Targaryen
Tyrion	Lannister	King's Landing	House Lannister

Code blocks

```
This code
is in
a code block.
```

Here's a syntax-highlighted code block:

```
#!/usr/bin/env python3

import sys

if __name__ == '__main__':
    print('This is highlighted Python code!')
    sys.exit(0)
```

Page Layout with LaTeX Commands

Here's a forced page break.

LaTeX support

This document supports inline LaTeX!

Here's the proof: $\frac{n!}{k!(n-k)!} = \binom{n}{k}$

Creating a footnote is easy.[1]

Here's an equation:

$$x = a_0 + \cfrac{1}{a_1 + \cfrac{1}{a_2 + \cfrac{1}{a_3 + \cfrac{1}{a_4}}}}$$

Here are some numbered equations:

$$f(x) = (x + a)(x + b) \tag{1}$$

$$5^2 - 5 = 20 \tag{2}$$

$$a = bq + r \tag{3}$$

Here's some multi-line math stuff:

$$u(x) = \begin{cases} \exp x & \text{if } x \geq 0 \\ 1 & \text{if } x < 0 \end{cases}$$

$$\begin{aligned} f(x) &= (x + a)(x + b) \\ &= x^2 + (a + b)x + ab \end{aligned}$$

[1] An example footnote.