

# The Falkor Land Style

An Example using Markdown Content

#### Sébastien Varrette

Parallel Computing and Optimization Group (PCOG), University of Luxembourg (UL), Luxembourg



#### Latest versions available on Github:

Beamer theme Falkor:

https://github.com/Falkor/beamerthemeFalkor

Generic Makefiles:

https://github.com/Falkor/Makefiles





- Instructions
- 2 A section in Markdow level 1 A subsection in Markdown level 2
- 3 Markdown Sources of these slides



- Instructions
- 2 A section in Markdow level 1
  A subsection in Markdown level 2
- 3 Markdown Sources of these slides





### Markdown-based Beamer Workflow

- Install pandoc
- Rely on my LATEX Makefile (or define your own)
- Rely on a main file in LATEX
  - → split markdown content in individual Markdown files

  - → my Makefile compile all .md files into .md.tex LATEX files using:

- Simply include the markdown files using \input{<filename>.md}
  - → in practice, <filename>.md.tex is considered for inclusion
- Ex: the next section was generated by:

```
\input{_content_in_markdown.md} % the .tex extension is % automatically added
```

→ Markdown sources are provided in appendix





# Summary

- Instructions
- 2 A section in Markdow level 1 A subsection in Markdown level 2
- 3 Markdown Sources of these slides





# Frametitle on level 3

**Note**: These examples are translated from the example of Romain Vimont

• see the mdbeamer repository on Github

#### Block on level 4

- item 1 in a block
- item 2 in a block
  - $\hookrightarrow$  sub item 1





# More on Blocks

#### A First Block

inside the **block** in Markdown

Comments below the first block.

#### A second block

inside the second block





#### Why?

- the source code is more readable
  - $\hookrightarrow$  sub item 1
  - $\hookrightarrow$  sub item 2
    - √ sub sub item 1
    - √ sub sub item 2
- The syntax is more convenient
  - → Strikeout: This is deleted text.
  - - √ H<sub>2</sub>O is a liquid
    - $\checkmark$  2<sup>10</sup> is 1024.
- Write me!





### Code block

#### Indented code blocks

```
if (a > 3) {
  moveShip(5 * gravity, DOWN);
}
```

#### Fenced code blocks

```
public static void main(String... args) {
    System.out.println("Hello world!");
}
```

```
int main(int argc, char *argv[]) {
  printf("Hello world!\n");
  return 0;
}
```





#### Lists

- item one
- item two
- another list item 1
- another list item 2





## **Enumerate list**

- clone the repository
- install pandoc
- Install the dependencies
  - (a) texlive-latex-base
  - (b) latex-beamer
- Install a reader Skim





## Citations and appearance

This is from Mitch Resnick.

If you learn to read, you can then read to learn.

If you learn to code, you can then code to learn.

1

Now a step-by-step appearance:

first



13 / 32

<sup>1</sup> http://www.ted.com/talks/mitch\_resnick\_let\_s\_teach\_kids\_to\_code.html



### Citations and appearance

This is from Mitch Resnick.

If you learn to read, you can then read to learn.

If you learn to code, you can then code to learn.

1

Now a step-by-step appearance:

- first
- then



<sup>1</sup> http://www.ted.com/talks/mitch\_resnick\_let\_s\_teach\_kids\_to\_code.html



## Citations and appearance

#### This is from Mitch Resnick.

If you learn to read, you can then read to learn.

If you learn to code, you can then code to learn.

1

#### Now a step-by-step appearance:

- first
- then
- finally



<sup>1</sup> http://www.ted.com/talks/mitch\_resnick\_let\_s\_teach\_kids\_to\_code.html



# More appearance

A first paragraph



14 / 32



# More appearance

A first paragraph Then another.





### More appearance

A first paragraph
Then another.
Now some formatting:
There exists 2 types of persons:
 those who understand recursivity and
 those who don't understand that there exists 2 types of persons:
 those who don't understand that there exists 2 types of persons:
 those who don't understand that there exists 2 types of persons:

. . .



# LATEX/Beamer Special

Some elements **do not** exist in Pandoc Markdown. In this case, you shall simply use LATEX.

#### **Alert**

That's an alertblock

#### **Example**

That's an exampleblock





### Maths & Tables

#### With some Formulaes:

$$\frac{\pi}{4} = \int_0^1 \sqrt{1 - x^2} \mathrm{d}x$$

#### And now some table

Test	col2	col3
item 1	14	28
item 2	1	1



### **Images**

Classical markdown syntax (yet with no control on the size)



Figure:

So probaby you wish to do it in LATEX directly







# Columns (with markdown inside)

To permit the usage of Markdown within a beamer columns environment, you have to use the following commands:

```
\columnsbegin{<width>}
    ...
\column{<width>}
    ...
\columnsend
```

#### Some text on the left column

- item 1
- item 2
  - $\hookrightarrow$  sub item 1

#### Text on the right column

- enum 1
- 2 enum 2
  - (a) sub enum 1





# Columns w. blocks w. Markdown inside

#### A Block in A Column

- item 1
- item 2
  - $\hookrightarrow$  sub item 1
- item 3
  - $\hookrightarrow$  sub item 1
  - $\hookrightarrow$  sub item 2

#### Inside a column environment:

- the block environment raise an error
- instead, use the following commands:

```
\blockbegin{Title}
```

\blockend

- This allows to use the Markdown syntax in the block.
  - $\hookrightarrow$  only required with the \columnsbegin ... \columnsend construction





#### Links on description environment:

```
pandoc http://johnmacfarlane.net/pandoc/demo/example9/
```

pandocs-markdown.html

beamer http://johnmacfarlane.net/pandoc/demo/example9/

producing-slide-shows-with-pandoc.html

In french http://enacit1.epfl.ch/markdown-pandoc/

See UL HPC website.





# Summary

- Instructions
- 2 A section in Markdow level 1 A subsection in Markdown level 2
- 3 Markdown Sources of these slides





#### Markdown Sources of these slides

### Markdown Sources I

```
# A section in Markdow level 1
 3
     ## A subsection in Markdown level 2
     ### Frametitle on level 3
 6
     Note: These examples are translated from the example of Romain Vimont
 9
     * see the ['mdbeamer' repository on Github](https://github.com/rom1v/mdbeamer)
     #### Block on level 4
12
     * item 1 in a block
     * item 2 in a block
         - sub item 1
15
     ### More on Blocks
18
      \blockbegin{A First Block}
21
      inside the block in *Markdown*
      blockend
24
```





### Markdown Sources II

```
Comments below the first block.
27
     #### A second block
     * inside the second block
30
     ### Why?
33
     * the source code is more readable
         - sub item 1
36
             - sub item 2
                 * sub sub item 1
             * sub sub item 2
39
     * The syntax is more **convenient**
         - Strikeout: This ~~is deleted text.~~
         - Superscripts and subscripts:
42
                 * H~2~O is a liquid
                     * 2^10^ is 1024
     * [Write me!](mailto:sebastien.varrette@uni.lu)
45
     ### Code block
```



Indented code blocks

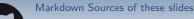
48



### Markdown Sources III

```
if (a > 3) {
51
           moveShip(5 * gravity, DOWN);
54
     Fenced code blocks
      ~~~java
57
      public static void main(String ... args) {
         System.out. println ("Hello world!");
60
     ~~~{.c}
      int main(int argc, char *argv[]) {
63
        printf ("Hello world!\n");
       return 0:
66
69
      ### Lists
      * item one
72
      * item two
     <!-- -->
```

•





# Markdown Sources IV

```
75
      * another list item 1
      * another list item 2
78
      ### Enumerate list
81
      1. clone the repository
      install 'pandoc'
      3. Install the dependencies
         a. 'texlive -latex-base'
         b. 'latex -beamer'
      4. Install a reader 'Skim'
87
     ### Citations and appearance
90
     This is from [*Mitch Resnick*](https://en.wikipedia.org/wiki/Mitchel_Resnick).
93
      > If you learn to read, you can then read to learn.\
      > If you learn to code, you can then code to learn . [ ted]
96
      [^ted]: \tiny<http://www.ted.com/talks/mitch_resnick_let_s_teach_kids_to_code.html>
     Now a step-by-step appearance:
99
```



#### Markdown Sources of these slides

# Markdown Sources V

```
> - first
       > - then
102
       > - finally
      ### More appearance
105
      A first paragraph
108
      Then another.
111
114
      Now some formatting:
        There exists 2 types of persons:
117
           those who understand recursivity and
           those who don't understand that there exists 2 types of persons:
             those who understand recursivity and
120
             those who don't understand that there exists 2 types of persons:
```

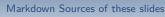


123



### Markdown Sources VI

```
### \LaTeX /Beamer Special
126
       Some elements ___do not___ exist in Pandoc Markdown.
       In this case, you shall simply use \LaTeX.
129
       \begin{ alertblock }{ Alert }
       That's an alertblock
132
       \end{ alertblock }
       \begin{exampleblock}{Example}
135
       That's an exampleblock
       \end{exampleblock}
       ### Maths \& Tables
138
       With some Formulaes:
141
       $$
       \frac{\pi c}{\pi c} = \int_0^1 \left(1-x^2\right) \operatorname{d} dx
144
       And now some table
147
         Test | col2 | col3 |
```





### Markdown Sources VII

```
150
        item 1
        item 2
153
      ### Images
156
       Classical markdown syntax (yet with no control on the size)
       ![]( logo_ULHPC_100x100.png)
159
      So probaby you wish to do it in \LaTeX\ directly
162
       includegraphics [width=2em]{logo_ULHPC_100x100.png}
165
      ### Columns (with markdown inside)
      To permit the usage of Markdown within a beamer columns environment, you have to use the following commands:
168
      ~~~latex
       columnsbegin{<width>}
171
       column{<width>}
```

columnsend

174



### Markdown Sources VIII

```
177
       columnsbegin{.5\textwidth}
      Some text on the left column
180
       * item 1
      * item 2
183
          - sub item 1
       \column{.5\textwidth}
186
       Text on the right column
189
       1. enum 1
      2. enum 2
          a. sub enum 1
192
       columnsend
195
       ### Columns w. blocks w. Markdown inside
       \columnsbegin{.5\textwidth}
198
       \blockbegin{A Block in A Column}
```







# Markdown Sources IX

```
201
       * item 1
       * item 2
           - sub item 1
204
       * item 3
           - sub item 1
               - sub item 2
207
        blockend
210
       \column{.5\textwidth}
       Inside a column environment:
213
       * the 'block' environment raise an error
       * instead, use the following commands:
216
       ---latex
       blockbegin{ Title }
219
       blockend
222
       columnsend
```







# Markdown Sources X

225	* This allows to use the Markdown syntax **in** the block.
	<ul> <li>only required with the '\columnsbegin \columnsend' construction</li> </ul>
228	
	### Links
221	V
231	\ scriptsize
	Links on description environment:
234	Links on description environment.
254	pandoc
	~ <http: demo="" example9="" johnmacfarlane.net="" pandoc="" pandocs—markdown.html=""></http:>
237	
	beamer
	~ <http: demo="" example9="" johnmacfarlane.net="" pandoc="" producing-slide-shows-with-pandoc.html=""></http:>
240	
	In french
	~ <http: enacit1.epfl.ch="" markdown—pandoc=""></http:>
243	5 MH 195 1 1 1
	See [UL HPC website].
246	III HDC mehritali hatan //han mi lu
246	[UL HPC website]: http://hpc.uni.lu





#### Thank you for your attention...

# Questions?

#### Sebastien Varrette

mail: sebastien.varrette@uni.lu Office E-007 Campus Kirchberg 6, rue Coudenhove-Kalergi L-1359 Luxembourg



1 Instructions

A section in Markdow level 1
A subsection in Markdown level 2

Markdown Sources of these slides