The Falkor LaTeXBeamer Style
An Example using Markdown Content

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Latest versions available on Github:

Beamer theme Falkor: https://github.com/Falkor/beamerthemeFalkor

Generic Makefiles: https://github.com/Falkor/Makefiles

Summary

Summary

1. **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
  - ↪ these file **SHOULD HAVE** the `.md` extension
  - ↪ my `Makefile` compile all `.md` files into `.md.tex` LaTeX files using:

    ```
    $> pandoc -from markdown -to beamer -slide-level 3 \
              -o <filename>.md.tex <filename>.md
    ```
- 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

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
  ↪ 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
  - ↪ sub item 1
  - ↪ sub item 2
    - ✓ sub sub item 1
    - ✓ sub sub item 2
- The syntax **is** more **convenient**
  - ↪ Strikeout: This ~~is deleted text.~~
  - ↪ Superscripts and subscripts:
    - ✓ H_2O is a liquid
    - ✓ 2^{10} is 1024.
- Write me!

Code block

Indented code blocks

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

Fenced code blocks

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

```c
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

1. clone the repository
2. install `pandoc`
3. Install the dependencies
    a. `texlive-latex-base`
    b. `latex-beamer`
4. Install a reader `Skim`

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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

---

[1] http://www.ted.com/talks/mitch_resnick_let_s_teach_kids_to_code.html

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Citations and appearance

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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

---

[1] http://www.ted.com/talks/mitch_resnick_let_s_teach_kids_to_code.html

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More appearance

A first paragraph

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 understand recursivity and
    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

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Images

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

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
    ↪ sub item 1

Text on the right column

1. enum 1
2. enum 2
    a. sub enum 1

Columns w. blocks w. Markdown inside

A Block in A Column

- item 1
- item 2
  - ↪ sub item 1
- item 3
  - ↪ sub item 1
  - ↪ 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.
  - ↪ only required with the \columnsbegin ... \columnsend construction

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Links

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

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
15      - sub item 1

    ### More on Blocks
18
    \blockbegin{A First Block}

21  inside the ___block___ in *Markdown*

    \blockend
24
```

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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
48
     Indented code blocks
```

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Markdown Sources III

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

   54    Fenced code blocks

         ~~~java
   57    public static void main(String ... args) {
            System.out. println ("Hello world!");
         }
   60    ~~~

         ~~~{.c}
   63    int main(int argc, char *argv[]) {
           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
     2. install 'pandoc'
84   3. Install the dependencies
         a. 'texlive-latex-base'
         b. 'latex-beamer'
87   4. Install a reader 'Skim'

     ### 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>
```

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Markdown Sources V

```
     Now a step—by—step appearance:
99
     > — 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:
```

Markdown Sources VI

```
|           ...
123

### \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}

138 ### Maths \& Tables

With some Formulaes:
141
$$
\frac{\pi}{4}=\int_0^1 \sqrt{1-x^2}\mathrm dx
144 $$
```

Markdown Sources VII

```
     And now some table
147
     | Test   | col2 | col3 |
     |————————|——————|——————|
150  | item 1 |   14 |   28 |
     | item 2 |    1 |    1 |
     |        |      |      |
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
```

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Markdown Sources VIII

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

\columnsbegin{.5\textwidth}

Some text on the  left  column

* item  1
* item  2
    - sub item  1

\column{.5\textwidth}

Text on the  right  column

1. **enum** 1
2. **enum** 2
    a. sub **enum** 1
```

Markdown Sources IX

```
     \columnsend

195  ### Columns w. blocks w. Markdown inside

     \columnsbegin{.5\textwidth}
198
     \blockbegin{A Block in A Column}

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
```

Markdown Sources X

```latex
~~~latex
\blockbegin{ Title }
   ...
\blockend
~~~

\columnsend

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


### Links

\ scriptsize

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>
```

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Markdown Sources XI

```
        In french
          ~ <http://enacit1. epfl .ch/markdown−pandoc/>
243
        See [UL HPC website].

246     [UL HPC website]: http://hpc.uni. lu
```

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Questions?

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1 Instructions

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

3 Markdown Sources of these slides

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