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`

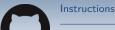Generic Makefiles: `https://github.com/Falkor/Makefiles`

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Summary

Summary

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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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

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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!

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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`

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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Now a step-by-step appearance:

- first
- then

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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
- 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:
      . . .

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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
  - ↪ 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.

Markdown Sources of these slides

Summary

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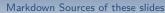LUXEMBOURG

Markdown Sources I

```
# A section in Markdow level 1

## A subsection in Markdown level 2

### Frametitle on level 3

_Note_: These examples are translated from the example of Romain Vimont

* see the ['mdbeamer' repository on Github](https://github.com/rom1v/mdbeamer)

#### Block on level 4

* item 1 in a block
* item 2 in a block
    - sub item 1

### More on Blocks

\blockbegin{A First Block}

inside the __block__ in *Markdown*

\blockend
```

Markdown Sources II

```
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~2~O is a liquid
            * 2^10^ is 1024.
* [Write me!](mailto:sebastien.varrette@uni.lu)

### Code block

Indented code blocks
```
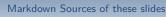
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Markdown Sources III

```
        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}
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>

   Now a step-by-step appearance:
99
```

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
```
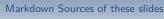
Markdown Sources VI

```
126    ### \LaTeX /Beamer Special

       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
       $$
       \frac{\pi}{4}=\int_0^1 \sqrt{1-x^2}\mathrm dx
144    $$

       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
       ~~~latex
       \columnsbegin{<width>}
171      ...
       \column{<width>}
         ...
174    \columnsend
```

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.
          — only required with the '\columnsbegin … \columnsend' construction

228
       ### Links

231    \ scriptsize

       Links on description environment:
234
       pandoc
          ~ <http://johnmacfarlane.net/pandoc/demo/example9/pandocs−markdown.html>
237
       beamer
          ~ <http://johnmacfarlane.net/pandoc/demo/example9/producing−slide−shows−with−pandoc.html>
240
       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