The Falkor LaTeX Beamer 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

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

```
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

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

[1] 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

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

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

Images

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

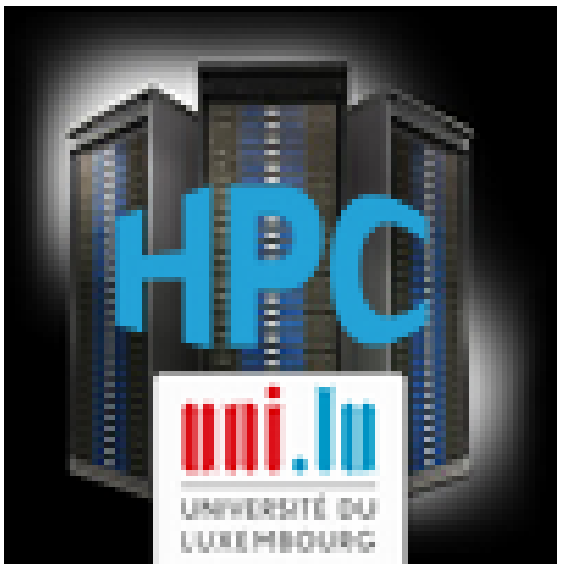

Figure:

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

More on Columns

A First Block

- item 1
- item 2
  - ↪ sub item 1
- item 3
  - ↪ sub item 1
  - ↪ sub item 2

Unfortunately in a column environment, you need to use the following commands:

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

Inside you can use the Markdown syntax.

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

## 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
```

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
> — finally

### 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:
|       ...
```

Markdown Sources VI

```
### \LaTeX /Beamer Special

Some elements ___do not___ exist in Pandoc Markdown.
In **this case**, you shall simply use \LaTeX.

\begin{alertblock}{Alert}
That's an alertblock
\end{alertblock}

\begin{exampleblock}{Example}
That's an exampleblock
\end{exampleblock}

### Maths \& Tables

With some Formulaes:

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

And now some table

| Test     | col2 | col3 |
|----------|------|------|
```

Markdown Sources VII

```
| item 1 |    14 |    28 |
| item 2 |     1 |     1 |
|        |       |       |

### Images

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

![]( logo_ULHPC_100x100.png)

So probaby you wish to **do** it in \LaTeX\ directly

\includegraphics[width=2em]{logo_ULHPC_100x100.png}


### Columns (with markdown inside)

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

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

Markdown Sources VIII

```
~~~

\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

\columnsend

### More on Columns

\columnsbegin{.5\textwidth}

\blockbegin{~\\A First Block} <!-- It's not a bug, it's a feature ;) -->
```

Markdown Sources IX

```
* item 1
* item 2
    — sub item 1
* item 3
    — sub item 1
        — sub item 2

\blockend

\column{.5\textwidth}

Unfortunately in a column environment, you need to use the following commands:

‘‘‘
\blockbegin{Title}
  ...
\blockend
’’’

Inside you can use the Markdown syntax.

\columnsend
```

Markdown Sources X

```
225
    ### Links

228 \ scriptsize

    Links on description environment:
231
    pandoc
      ~ <http://johnmacfarlane.net/pandoc/demo/example9/pandocs-markdown.html>
234
    beamer
      ~ <http://johnmacfarlane.net/pandoc/demo/example9/producing-slide-shows-with-pandoc.html>
237
    In french
      ~ <http://enacit1.epfl.ch/markdown-pandoc/>
240
    See [UL HPC website].

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

Thank you for your attention...

Questions?

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