latex-example

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<2014-02-22 Sat>

Contents

1 Version information

```
Emacs version: GNU Emacs 24.4.1 (x86_64-unknown-linux-gnu, GTK+ Version 3.10.8)
 of 2014-10-31 on dflt1w
org version: 8.2.10
```

2 Some LaTeX links

- Link formatting
  - This is described in the LaTeX hyperref manual.
  - This is an example how to get links that are not framed by red rectangles, but just have a blue font color

    ```
    #+LaTeX_HEADER: \hypersetup{colorlinks=true, linkcolor=blue}
    ```
- Building a LaTeX Document Class
  - http://tutex.tug.org/pracjourn/2005-4/hefferon/hefferon.pdf

3 Equations

This is an example for an equation

$$cores_{extrapol} = cores_{intern2013} \cdot offl\% \cdot \frac{gf \cdot (volume_{user} + volume_{intern})}{volume_{intern}}$$

This is an example for an equation emedded in the text $cores_{extrapol} = cores_{intern2013} \cdot offl\% \cdot \frac{gf \cdot (volume_{user} + volume_{intern})}{volume_{intern}}$ and here follows a numbered equation that also can be referenced (eq 1).

$$cores_{extrapol} = cores_{intern2013} \cdot offl\% \cdot \frac{gf \cdot (volume_{user} + volume_{intern})}{volume_{intern}} \quad (1)$$

4 Figure

I can reference the figure like this: Fig. 1.

Note

- there must be no empty line between the link and the meta definitions for name, caption, etc.
- The OPTION `tex:t` must be set for references to work.

Specifier	Permission
h	Place the float here, i.e., approximately at the same point it occurs in the source text (however
t	Position at the top of the page.
b	Position at the bottom of the page.
p	Put on a special page for floats only.
!	Override internal parameters LaTeX uses for determining "good" float positions.
H	Places the float at precisely the location in the LaTeX code. Requires the float package,[1]e.g., flo

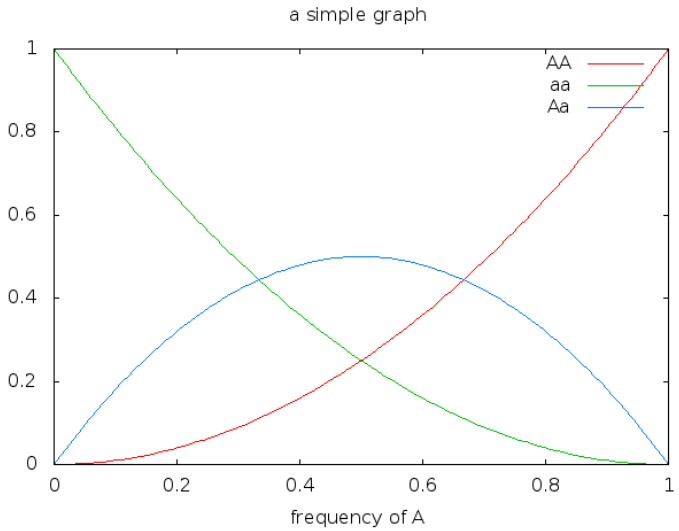

Figure 1: A simple graph

[1]DEFINITION NOT FOUND.

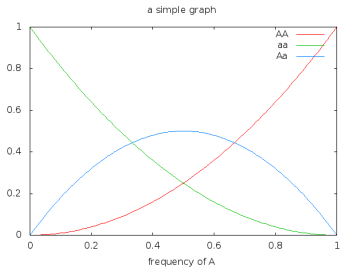

Figure 2: A simple graph

A pdf can be included the same way

```
#+ATTR_LATEX: :options page=10 :width 10cm
[[file:myfig.pdf]]
```

5 Footnote test

This is a text with a footnote[2]. The footnote will be displayed on the bottom of the current page. One can also place all footnotes in a separate chapter called *footnotes* at the end of the org file[3].

6 Tables

Whether table captions appear above or below the table can be configured using this variable

```
(setq org-latex-table-caption-above nil)
```

Table 1: default table

Column 1	Column 2	Column 3	Column 4
1	10	100	1000
2	11	101	1001
3	12	102	1002
4	13	103	1003
5	14	104	1004
15	60	510	5010

[2] This is the footnote text

[3] this is a footnote from the end of the org document

Table 2: table using booktabs style

Column 1	Column 2	Column 3	Column 4
1	10	100	1000
2	11	101	1001
3	12	102	1002
4	13	103	1003
5	14	104	1004
15	60	510	5010

6.1 Math in tables

Use *math* or *inline math* together with *array* environment.

Here we use the simple math mode

$Column1$	$Column2$
$\sin(x)$	$\tan(x)$

This uses the `inline-math` mode

$Column1$	$Column2$
$\sin(x)$	$\tan(x)$

6.2 Table font size

The font size is determined by the `:font` switch in the `#+ATTR_LATEX` line.

Column 1	Column 2
Some text	Some other text
10	20

When I use a caption, the latex export uses a `table` environment. The previous captionless table used the `tabular` environment.

Table 3: Table small size

Column 1	Column 2
Some text	Some other text
10	20

Table 4: Table footnotesize

Column 1	Column 2
Some text	Some other text
10	20

Table 5: Table tiny size

Column 1	Column 2
Some text	Some other text
10	20

6.3 Sidewaystable

Using the sidewaystable together with a `:placement [H]` specifier requires that one uses the `rotfloat` environment.

Table 6: A sidewaystable

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
1	10	100	1000	example	result
2	11	101	1001	example	result
3	12	102	1002	example	result
4	13	103	1003	example	result
5	14	104	1004	example	result
6	15	105	1005	example	result
7	16	106	1006	example	result

7 Text font size