

# latex-example

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## 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 Link formatting

- This is described in the L<sup>A</sup>T<sub>E</sub>X [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}
```

### 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 that there must be no empty line between the link and the meta definitions for name, caption, etc.

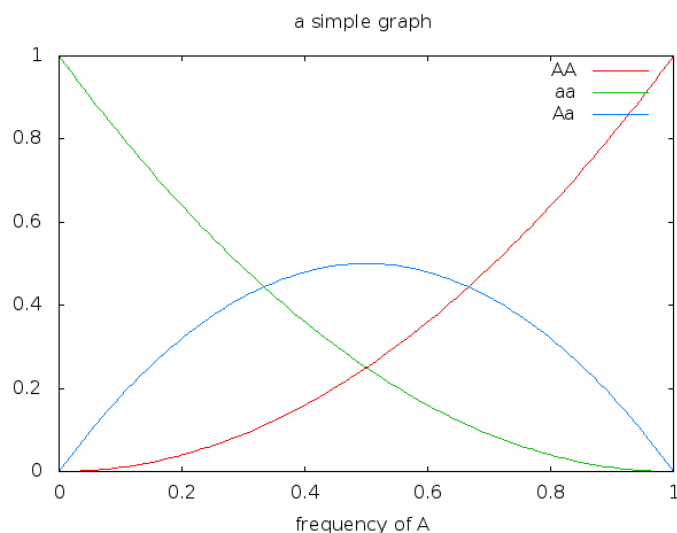


Figure 1: A simple graph

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<sup>1</sup>. 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<sup>2</sup>.

## 6 Tables

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

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

### 6.1 Math in tables

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

---

<sup>1</sup>This is the footnote text

<sup>2</sup>this is a footnote from the end of the org document

Here we use the simple math mode

<i>Column1</i>	<i>Column2</i>
$\sin(x)$	$\tan(x)$

This uses the `inline-math` mode

<i>Column1</i>	<i>Column2</i>
$\sin(x)$	$\tan(x)$

## 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 1: Table small size
Column 1    Column 2
Some text    Some other text
10            20

Table 2: Table footnotesize
Column 1    Column 2
Some text    Some other text
10            20

Table 3: 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 4: A sideways table

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

## 6.4 DOES NOT WORK: Radio tables and skipping columns and rows

The reason why it does not work is that the feature is only implemented for some modes. Org is not among them. See Org info chapter: *A.6.2 A  $\LaTeX$  example of radio tables*.

The `:splice t` setting in the following ORGTBL definition will result in only the table's body lines to be returned, and not to wrap them into a tabular environment.

## 6.5 TODO things to try

I should try

```
#+attr_latex: :float sidewaysstable
```

to get a table oriented sideways