

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 Some L^AT_EX links

- Link formatting
 - This is described in the L^AT_EX [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 L^AT_EX Document Class
 - <http://tutex.tug.org/pracjourn/2005-4/hefferon/hefferon.pdf>

3 Equations

This is an example for an equation

$$cores_{extrapol} = cores_{intern2013} \cdot offl\%_0 \cdot \frac{gf \cdot (volume_{user} + volume_{intern})}{volume_{intern}}$$

This is an example for an equation embedded in the text $cores_{extrapol} = cores_{intern2013} \cdot offl\%_0 \cdot \frac{gf \cdot (volume_{user} + volume_{intern})}{volume_{intern}}$ The text continues after the formula.

Here follows a numbered equation that also can be referenced like in the following parentheses (eq [1](#)).

$$cores_{extrapol} = cores_{intern2013} \cdot offl\%_0 \cdot \frac{gf \cdot (volume_{user} + volume_{intern})}{volume_{intern}} \quad (1)$$

4 Figures

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

Note

- there must be no empty line between the picture's 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, not exactly at the spot)
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., float. This is somewhat equivalent to h!.

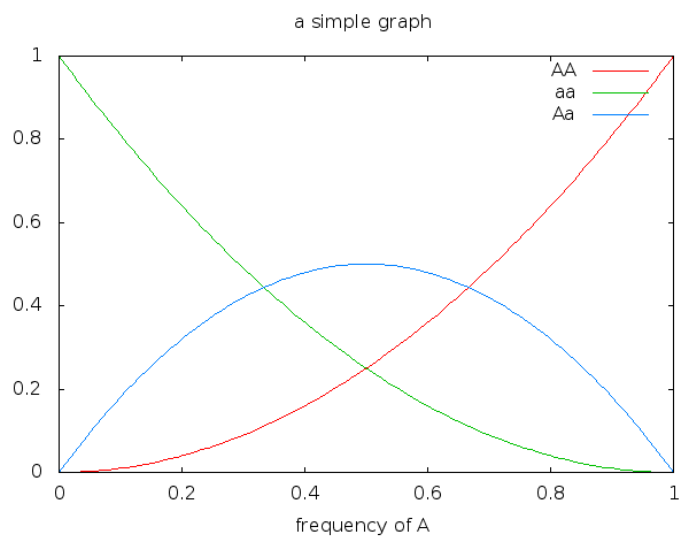


Figure 1: A simple graph

¹DEFINITION NOT FOUND.

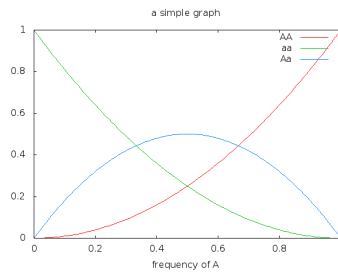


Figure 2: A simple graph at half the width

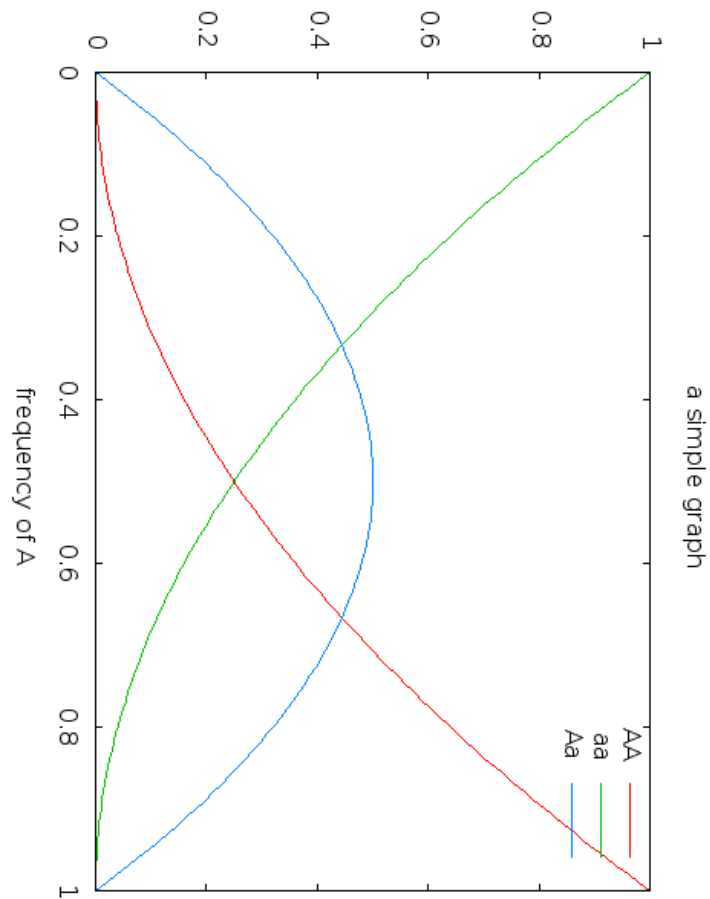


Figure 3: A simple graph rotated 270°

A pdf can be included the same way, e.g. by specifying

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

4.1 inclusion of SVG graphics

q.v. my plantuml related documentation.

5 Footnote test

This is a text with a footnote². 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 file³.

6 Tables

6.1 nicer table formatting using booktab style

Some **interesting tips** for booktab style tables by M. Püschel.

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

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

6.2 Math in tables

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

²This is the footnote text

³this 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>
$\sin(x)$	$\tan(x)$

6.3 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

Sidenote:

- When a caption is used, the latex export uses a `table` environment.
- The previous captionless table generates a `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

6.4 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

Text Example Text Example Text Ex-
ample Text Example Text Example (default) Text Example Text
Example Text Example Text Example Text Example