

Basic elements for a presentation using \LaTeX

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Wherever you work

City, date

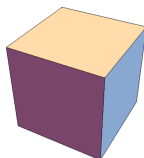


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- Themes can be changed with the command `usetheme`. A list of the different themes can be found [here](#).
- The colors of a theme can be changed with the command `usecolortheme`. A list of the different colors can be found [here](#).
- The fonts can be changed with the command `usefonttheme`. A list of the different fonts can be found [here](#).

See the difference in this equation

$$f(x) = x^{2345} \sin(x). \quad (1)$$

Custom colors

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You can also define your own colors with the commands
`definecolor` and `setbeamercolor`.

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The frame number can be added to the bottom of the slide with the command `setbeamertemplate{footline}[frame number]`.

Foot

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Alternative the foot of the presentation can be changed with further options for `setbeamertemplate{footline}`.

Aspect ratio

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With `documentclass[aspectratio=169]{beamer}` you will
create slides in 16:9 format.

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Although most of the themes have a sidebar with the sections of the presentation, it is still for some people very useful to highlight the upcoming section and its contents. This can be achieved using the command `tableofcontents[currentsection]` just after the section definition.

Columns

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Columns can be used in order to separate content.

Some text in the first column. It is important to see here that the content in the columns are aligned to the top. You can choose t,c or b.

Some text the second column.

Embedding images

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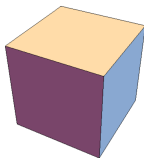
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You may want to use different kind of images like PNG and EPS figures. In order to be able to work with EPS figures you need to adapt your compilation procedure. Here you can see a PNG figure.



For conversion of PNG figures into EPS search in Google for a converter or go [here](#).

Setting a link to a video

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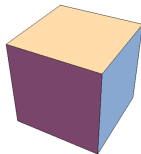
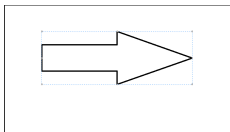
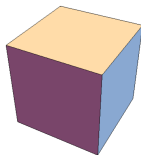
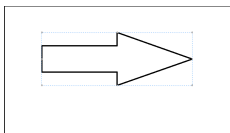
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You are also able to link videos to the created PDF using the command **movie**.



A fantastic explanation on how to convert videos with the completely free VLC player can be found [here](#).

Other attachments

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You might also want to show other attached files, e.g., [manipulate](#).

Overlays: pause

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An itemized or enumerated list can be paused at several parts using the command **pause**, e.g.

- first
- second
- third
- fourth

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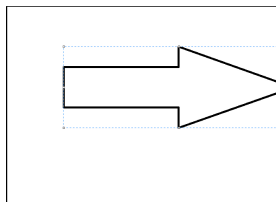
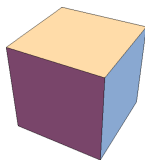
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If a more elaborated form has to be presented, use unconver and only. Example:

Description of some concept

- 1 Point 1
- 2 Point 2
- 3 Point 3
- 4 Point 4



More Text.

Presentation of data

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As in the other \LaTeX documents you can also use here tables in order to present data.

	bla	ble	bli
first	sdfajfdlk	sdjdklf	djk
second	sfd	fdgdfgds	dfgshgsdfh

Text blocks

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You have the possibility to use the environment `block` for separating important content and concepts from the rest of the text.

Title of the concept

Description of the concept comes in this region. You are able to define more stuff in this region, e.g. equations

$$a + b = c \quad (2)$$

and more.

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More blocks

Definition (Name)

Description

Theorem (Name)

Description

Proof.

Proof



Mathematical content

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Of course you are able to create also equations

$$m\ddot{x} = \sum_{i=1}^n F_i \quad , \quad \delta H = 0 \quad , \quad x(t) = \int_0^t v(s)ds \quad (3)$$

separately or in the text $f(x) = x^2$ using the common commands.

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As you could see using the command pause a lot of PDF pages are created. May be you will want to give an handout of your presentation without the pauses. This can be done with the document class option **handout**. This will then ignore all pauses and a "reduced" PDF will be created.