Beamer example Usage of the theme HFU

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Mathematics



Theorem (Fermat's little theorem)

For a prime p and $a \in \mathbb{Z}$ it holds that $a^p \equiv a \pmod{p}$.

Proof.

The invertible elements in a field form a group under multiplication. In particular, the elements

$$\mathsf{1},\mathsf{2},\ldots, p-\mathsf{1}\in\mathbb{Z}_p$$

form a group under multiplication modulo p. This is a group of order p - 1. For $a \in \mathbb{Z}_p$ and $a \neq 0$ we thus get $a^{p-1} = 1 \in \mathbb{Z}_p$. The claim follows.

Mathematics



Example

The function $\varphi \colon \mathbb{R} \to \mathbb{R}$ given by $\varphi(x) = 2x$ is continuous at the point $x = \alpha$, because if $\epsilon > 0$ and $x \in \mathbb{R}$ is such that $|x - \alpha| < \delta = \frac{\epsilon}{2}$, then

$$|arphi(x)-arphi(lpha)|=2|x-lpha|<2\delta=\epsilon.$$

Highlighting

Highlighting



Sometimes it is useful to highlight certain words in the text.

Important message

If a lot of text should be highlighted, it is a good idea to put it in a box.

It is easy to match the colour theme.





- Bullet lists are marked with a red box.
- **1** Numbered lists are marked with a white number inside a red box.

Description highlights important words with red text.

Items in numbered lists like 1 can be referenced with a red box.

Example

Lists change colour after the environment.



Key messages or conclusions can be highlighted by using an arrow





Effects that control

Use textblock for arbitrary placement of objects.







Effects that control

2 when text is displayed

Use **textblock** for arbitrary placement of objects.

Theorem

This theorem is only visible on slide number 2.





1 Effects that control

- 2 when text is displayed
- 3 are specified with <> and a list of slides.

Use **textblock** for arbitrary placement of objects.







Use **textblock** for arbitrary placement of objects.

- Effects that control
- 2 when text is displayed
- 3 are specified with <> and a list of slides.

Effects



Effects that control

- 2 when text is displayed
- 3 are specified with <> and a list of slides.

Use **textblock** for arbitrary placement of objects.

It creates a box with the specified width (here in a percentage of the slide's width) and upper left corner at the specified coordinate (x, y) (here x is a percentage of width and y a percentage of height).



Diskussion und Fragen

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References I

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 Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont., 1969



References II



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'On isolated rational singularities of surfaces'. *Amer. J. Math.*, 80(1):129–136, 1966.