UNIVERSIDADE da MADEIRA

Master's Thesis Preparation

Empowering Users' Privacy Rights in the Internet of Things

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Last Update: December 28, 2022

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What is Beamer?

The beamer classes for LaTeX are used to create presentations that are to be shown with a beamer. The text typesetting system creates PDF files that can be shown by a large number of programmes.

The present theme was adapted from HSRM theme by Benjamin Weiss and it makes the creation of slides (assuming basic knowledge of LaTeX) child's play.

System requirements

In order to successfully create presentations with this theme, the following requirements must be met by the system:

- LuaLaTeX must be used to typeset the slides.
- Besides some standard packages, the packages beamer, pgf and xcolor must be installed.
- The fonts Flama-Light, Flama-Book and Flama-Medium should be installed. Alternative: Arial
  http://www.felicianotypefoundry.com/

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Theme options

To customize the presentation, the following options can be selected.

Option	Effect
noflama	If you do not have the Flama font you can switch to the Arial font with this option.
noserifmath	Formulas are also set sans serif.
nosectionpages	The section introduction pages will be hidden.

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Slide structure

Structure in Beamer is the same as in LaTeX using section, subsection, etc. For slides the frame environment is defined. The slide title can be passed directly to the frame environment or set within the environment using s

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Enumerations

Enumerations

Enumerations are possible with the enumerate and the itemize environment.

1. item 1
2. item 2
   - point 1
   - point 2
3. point 3

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Emphasis

Emphasis

In the Beamer class, the function \alert is defined to highlight individual words.
Example:

- highlighted text

Additionally, \quoted and \doublequoted can be used, resulting in the following
outputs:

single quotation marks

Double quotation marks

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Block structures

Simple block with enumeration

Block environments are defined in Beamer for structuring purposes.

Block with an enumeration

- point 1
- point 2

block with a bullet

- point 1
- point 2

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Block structures

Alert Block

Alert Block

An Alert Block is coloured with the first primary colour.

alert block

An Alert Block is coloured with the first primary colour.

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Block structures

Example Block

Example Block

An Example Block is coloured with the first secondary colour.

Example Block

An example block is coloured with the first secondary colour.

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Block structures

block with other colour

Block with other colour

Another secondary colour is used in this block.

block with other colour

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Other examples

Below are more example slides attached without additional explanation. Just
have a look at the source code to see how the slides were created.

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Images

Photo with copyright

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Images

Plot with caption

Figure: LFE channel frequency spectrum

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Tables

Table

Table: Selection of window function and their properties

Window	First side lobe	3 dB bandwidth	Roll-off
Rectangular	13.2 dB	0.886 Hz/bin	6 dB/oct
Triangular	26.4 dB	1.276 Hz/bin	12 dB/oct
Hann	31.0 dB	1.442 Hz/bin	18 dB/oct
Hamming	41.0 dB	1.300 Hz/bin	6 dB/oct

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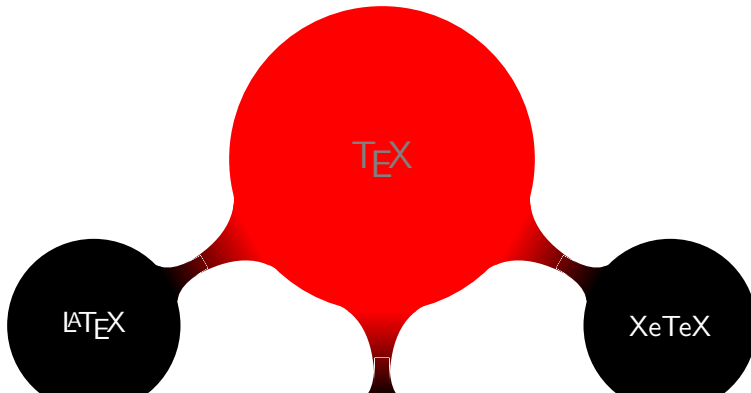Future Work and Conclusion
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Formulas

Formulas

Fourier Integral

$$F(j\omega) = \int\limits_{-\infty}^{\infty} f(t) \cdot e^{-j\omega t} dt$$

Factorial

$$n! = 1 \cdot 2 \cdot 3 \cdots n = \prod_{k}^{n}$$

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Formulas

Mindmap with TikZ

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Footnote

Footnotes

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Notes

slide with associated notes slide

This slide is for the audience.
The following programmes are suitable for its presentation:

- Splitshow (Mac OS X)
  urlhttps://code.google.com/p/splitshow/

- pdf-presenter (Windows)
  urlhttps://code.google.com/p/pdf-presenter/

2022-12-28

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  └─Notes
    └─slide with associated notes slide

slide with associated notes slide

This slide is for the audience.
The following programmes are suitable for its presentation:
- Splitshow (Mac OS X)
  urlhttps://code.google.com/p/splitshow/
- pdf-presenter (Windows)
  urlhttps://code.google.com/p/pdf-presenter/

Use this slide for your notes on the presentation.
The following programmes are suitable for your presentation:

- Splitshow (Mac OS X)
  https://code.google.com/p/splitshow/

- pdf-presenter (Windows)
  https://code.google.com/p/pdf-presenter/

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Columns

Two columns

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- one entry
- another entry

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Columns

Column break

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- another entry

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Future Work

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- Do that

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Conclusion

In this thesis I explored people's perception of privacy of IoT systems and made
an application that aims to create more awareness in users about their
environment and the IoT devices that inhabit it.

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Questions and Comments

Thank you for your attention. Any questions?

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