# ajfjdjaffiwjfaljglkjrikjaellejlejjaelrjerjlaeljrealjaerklaerjaelrkjarelkjalre

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## **Outline for Section 1**

- Light Frames
  - 1.1 Blind Text
  - **1.2** Structuring Elements
  - 1.3 Numerals and Mathematics
  - 1.4 Figures and Code Listings
  - 1.5 Citations and Bibliography



#### Lists and locales

# Lorem ipsum dolor sit amet

- Nulla nec lacinia odio.
   Curabitur urna tellus.
  - Fusce id sodales dolor. Sed id metus dui.
    - » Cupio virtus licet mi vel feugiat.

- 1. Donec porta, risus porttitor egestas scelerisque video.
  - 1.1 Nunc non ante fringilla, manus potentis cario.
    - 1.1.1 Pellentesque servus morbi tristique.

Nechť již hříšné saxofony ďáblů rozzvučí síň úděsnými tóny waltzu, tanga a quickstepu! Nezvyčajné kŕdle šťastných figliarskych ďatľov učia pri kótovanom ústí Váhu mĺkveho koňa Waldemara obžierať väčšie kusy exkluzívnej kôry. The quick, brown fox jumps over a lazy dog. DJs flock by when MTV ax quiz prog. "Now fax quiz Jack!"



#### Text blocks

# In plain, example, and alert flavour

This text is highlighted.

#### A plain block

This is a plain block containing some highlighted text.

#### An example block

This is an example block containing some highlighted text.

## An alert block

This is an alert block containing some highlighted text.

# Definitions, theorems, and proofs

All integers divide zero

# Definition

 $\forall a, b \in \mathbb{Z} : a \mid b \iff \exists c \in \mathbb{Z} : a \cdot c = b$ 

#### Theorem

 $\forall a \in \mathbb{Z} : a \mid 0$ 

#### **Proof**

 $\forall a \in \mathbb{Z} : a \cdot 0 = 0$ 



# **Numerals and Mathematics**

# Formulae, equations, and expressions

1234567890 1234567890  $\hat{x}, \check{x}, \tilde{a}, \bar{a}, \dot{y}, \ddot{y} \iint f(x, y, z) dxdydz$ 

$$\frac{1}{1+\frac{1}{2+\frac{1}{3+x}}} + \frac{1}{1+\frac{1}{2+\frac{1}{3+x}}} \qquad F: \begin{vmatrix} F''_{xx} & F''_{xy} & F'_{x} \\ F''_{xx} & F''_{xy} & F'_{x} \\ F''_{yx} & F''_{yy} & F'_{y} \\ F'_{x} & F'_{y} & 0 \end{vmatrix} = 0$$

$$\iint_{\mathbf{x} \in \mathbb{R}^{2}} \langle \mathbf{x}, \mathbf{y} \rangle \, d\mathbf{x} \qquad \overline{aa^{2} + b\beta + \overline{ab}} \qquad ]0, 1[+[x] - \langle x, y \rangle$$

$$e^{x} \approx 1 + x + x^{2}/2! + \binom{n+1}{k} = \binom{n}{k} + \binom{n}{k-1}$$

$$+ x^{3}/3! + x^{4}/4!$$



**Figures** *Tables, graphs, and images* 

Faculty	With T <sub>E</sub> X	Total	%
Faculty of Informatics	1716	2 904	59.09
Faculty of Science	786	5 275	14.90
Faculty of Administration	64	4 5 9 1	1.39
Faculty of Arts	69	10 000	0.69
Faculty of Medicine	8	2014	0.40
Faculty of Law	15	4824	0.31
Faculty of Education	19	8 2 1 9	0.23
Faculty of Social Studies	12	5 599	0.21
Faculty of Sports Studies	3	2 062	0.15

Table: The distribution of theses written using TeX during 2010–15 at MU



# **Figures**

## Tables, graphs, and images

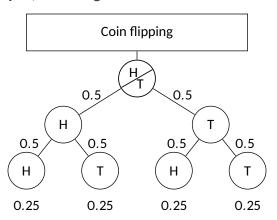


Figure: Tree of probabilities - Flipping a coin<sup>1</sup>

<sup>&</sup>lt;sup>1</sup>A derivative of a diagram from texample.net by cis, CC BY 2.5 licensed



# **Code listings**

#### An example source code in C

```
#include <stdio.h>
#include <unistd.h>
#include <sys/types.h>
#include <sys/wait.h>
// This is a comment
int main(int argc, char **argv)
{
        while (--c > 1 \&\& !fork());
        sleep(c = atoi(v[c]));
        printf("%d\n", c);
        wait(0);
        return 0;
```



#### **Citations**

T<sub>F</sub>X, LeT<sub>F</sub>X, and Beamer

T<sub>E</sub>X is a programming language for the typesetting of documents. It was created by Donald Erwin Knuth in the late 1970s and it is documented in *The T<sub>E</sub>Xbook* [1].

In the early 1980s, Leslie Lamport created the initial version of ETEX, a high-level language on top of TEX, which is documented in ETEX: A Document Preparation System [2]. There exists a healthy ecosystem of packages that extend the base functionality of ETEX; The ETEX Companion [3] acts as a guide through the ecosystem.

In 2003, Till Tantau created the initial version of Beamer, a MEX package for the creation of presentations. Beamer is documented in the *User's Guide to the Beamer Class* [4].



# **Bibliography**

# T<sub>F</sub>X, ET<sub>F</sub>X, and Beamer

- [1] Donald E. Knuth. The TeXbook. Addison-Wesley, 1984.
- [2] Leslie Lamport. LaTeX: A Document Preparation System. Addison-Wesley, 1986.
- [3] M. Goossens, F. Mittelbach, and A. Samarin. The LTEX Companion. Addison-Wesley, 1994.
- [4] Till Tantau. User's Guide to the Beamer Class Version 3.01.
  Available at http://latex-beamer.sourceforge.net.
- [5] A. Mertz and W. Slough. Edited by B. Beeton and K. Berry. Beamer by example In TUGboat, Vol. 26, No. 1., pp. 68-73.