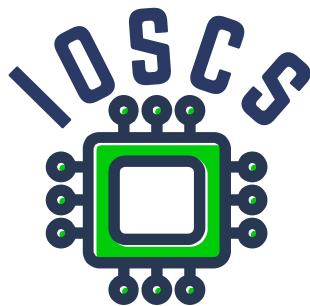


Project: Innovative Open Source Courses for Computer Science

# Open source tools for text processing Material for Laboratories

Jiří Rybička  
Mendel University in Brno

29. 5. 2021



This teaching material was written as one of the outputs of the project “Innovative Open Source Courses for Computer Science”, funded by the Erasmus+ grant no. 2019-1-PL01-KA203-065564. The project is coordinated by West Pomeranian University of Technology in Szczecin (Poland) and is implemented in partnership with Mendel University in Brno (Czech Republic) and University of Žilina (Slovak Republic). The project implementation timeline is September 2019 to December 2022.

## Project information

Project was implemented under the Erasmus+.

Project name: “Innovative Open Source courses for Computer Science curriculum”

Project nr: 2019-1-PL01-KA203-065564

Key Action: KA2 – Cooperation for innovation and the exchange of good practices

Action Type: KA203 – Strategic Partnerships for higher education

### Consortium

ZACHODNIOPOMORSKI UNIWERSYTET TECHNOLOGICZNY W SZCZECINIE

MENDELOVA UNIVERZITA V BRNĚ

ŽILINSKÁ UNIVERZITA V ŽILINE

### Erasmus+ Disclaimer

This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

### Copyright Notice

This content was created by the IOSCS consortium: 2019–2022. The content is copyrighted and distributed under Creative Commons Attribution-ShareAlike 4.0 International licence (CC BY-SA 4.0).



Co-funded by the  
Erasmus+ Programme  
of the European Union

# Laboratories

## Open source tools for text processing

Jiří Rybička  
Department of Informatics  
FBE MENDELU  
[rybicka@mendelu.cz](mailto:rybicka@mendelu.cz)

Project: Innovative Open Source Courses for Computer Science



Funded by  
the European Union

- 1.  $\text{\TeX}$  system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- $\text{\TeX}$  system – basic principles

- 1. T<sub>E</sub>X system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- T<sub>E</sub>X system – basic principles
- Fonts, font sources, macros, definition and parameters

- 1. T<sub>E</sub>X system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- T<sub>E</sub>X system – basic principles
- Fonts, font sources, macros, definition and parameters
- UTF-8 encoding and special characters; lengths and length registers

- 1.  $\text{\TeX}$  system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- $\text{\TeX}$  system – basic principles
- Fonts, font sources, macros, definition and parameters
- UTF-8 encoding and special characters; lengths and length registers
- Font shapes, mixed typesetting, colors

- 1.  $\text{\TeX}$  system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- $\text{\TeX}$  system – basic principles
- Fonts, font sources, macros, definition and parameters
- UTF-8 encoding and special characters; lengths and length registers
- Font shapes, mixed typesetting, colors
- Sections, initials; counters and cross references

- 1. T<sub>E</sub>X system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- T<sub>E</sub>X system – basic principles
- Fonts, font sources, macros, definition and parameters
- UTF-8 encoding and special characters; lengths and length registers
- Font shapes, mixed typesetting, colors
- Sections, initials; counters and cross references
- Paragraph typesetting – parameters; margin pars; footnotes; title pages

- 1.  $\text{\TeX}$  system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- $\text{\TeX}$  system – basic principles
- Fonts, font sources, macros, definition and parameters
- UTF-8 encoding and special characters; lengths and length registers
- Font shapes, mixed typesetting, colors
- Sections, initials; counters and cross references
- Paragraph typesetting – parameters; margin pars; footnotes; title pages
- Math expressions, math environments and elements; sums, integrals, limits

- 1.  $\text{\TeX}$  system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- $\text{\TeX}$  system – basic principles
- Fonts, font sources, macros, definition and parameters
- UTF-8 encoding and special characters; lengths and length registers
- Font shapes, mixed typesetting, colors
- Sections, initials; counters and cross references
- Paragraph typesetting – parameters; margin pars; footnotes; title pages
- Math expressions, math environments and elements; sums, integrals, limits
- Tables – tabbing and tabular environments; numbers aligning

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Graphics operations, inserting pictures, picture environment, floating environments

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Graphics operations, inserting pictures, picture environment, floating environments
- Running heads, table of contents, list of figures and tables; pages imposition

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Graphics operations, inserting pictures, picture environment, floating environments
- Running heads, table of contents, list of figures and tables; pages imposition
- Document as a whole – document elements, proposal of parameters, realisation

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- The first document:

```
\documentclass{article}  
\usepackage{xltxtra}  
\begin{document}  
The first document -- my own text, default  
font, size, aligning.  
\end{document}
```

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- The first document:

```
\documentclass{article}  
\usepackage{xltxtra}  
\begin{document}  
The first document -- my own text, default  
font, size, aligning.  
\end{document}
```

- Compile this document

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- The first document:

```
\documentclass{article}  
\usepackage{xltxtra}  
\begin{document}  
The first document -- my own text, default  
font, size, aligning.  
\end{document}
```

- Compile this document
- View the result

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- The first document:

```
\documentclass{article}  
\usepackage{xltextra}  
\begin{document}  
The first document -- my own text, default  
font, size, aligning.  
\end{document}
```

- Compile this document
- View the result
- View the log file

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- The first document:

```
\documentclass{article}  
\usepackage{xltxtra}  
\begin{document}  
The first document -- my own text, default  
font, size, aligning.  
\end{document}
```

- Compile this document
- View the result
- View the log file
- This document we will use and supplement during all the laboratories

- 1. T<sub>E</sub>X system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Errors and warnings – write command `\nothing` anywhere into your document

- 1. T<sub>E</sub>X system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Errors and warnings – write command `\nothing` anywhere into your document
- View the final PDF

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Errors and warnings – write command `\nothing` anywhere into your document
- View the final PDF
- View the log file and search line starting with “!”

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Errors and warnings – write command `\nothing` anywhere into your document
- View the final PDF
- View the log file and search line starting with “!”
- Recognize the error message

- 1. T<sub>E</sub>X system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Errors and warnings – write command `\nothing` anywhere into your document
- View the final PDF
- View the log file and search line starting with “!”
- Recognize the error message
- Experiment with longer text – add min. 3 paragraphs (approx. 30 lines)

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Errors and warnings – write command `\nothing` anywhere into your document
- View the final PDF
- View the log file and search line starting with “!”
- Recognize the error message
- Experiment with longer text – add min. 3 paragraphs (approx. 30 lines)
- Watch possible warnings – underfull or overfull boxes

# Fonts, main font

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Suppose the text from previous laboratory:  
Default main font Latin Modern

# Fonts, main font

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Suppose the text from previous laboratory:  
Default main font Latin Modern
- Set the main font by command `\setmainfont`

# Fonts, main font

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Suppose the text from previous laboratory:  
Default main font Latin Modern
- Set the main font by command `\setmainfont`
- Experiment with setting `\defaultfontfeatures`

# Fonts, main font

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Suppose the text from previous laboratory:  
Default main font Latin Modern
- Set the main font by command `\setmainfont`
- Experiment with setting `\defaultfontfeatures`
- Set additional fonts: sans serif, typewriter

# Macro definition

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- The command `\def` and definition of simple commands

# Macro definition

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- The command `\def` and definition of simple commands
- Commands for solid nonbreaking spaces  $1/6$  em,  $1/8$  em

# Macro definition

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- The command `\def` and definition of simple commands
- Commands for solid nonbreaking spaces 1/6 em, 1/8 em
- Command for figural space

# Macro definition

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- The command `\def` and definition of simple commands
- Commands for solid nonbreaking spaces 1/6 em, 1/8 em
- Command for figural space
- Commands for default document information: author, name, date etc.

# Macro definition

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- The command `\def` and definition of simple commands
- Commands for solid nonbreaking spaces 1/6 em, 1/8 em
- Command for figural space
- Commands for default document information: author, name, date etc.
- Alternative definition commands: `\newcommand`, `\renewcommand`

# Macro definition

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- The command `\def` and definition of simple commands
- Commands for solid nonbreaking spaces 1/6 em, 1/8 em
- Command for figural space
- Commands for default document information: author, name, date etc.
- Alternative definition commands: `\newcommand`, `\renewcommand`
- Environment definition `\newenvironment`, `\renewenvironment`

# Macro definition with parameters

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Non-separated parameters, macro for various spaces

# Macro definition with parameters

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Non-separated parameters, macro for various spaces
- Macros for some parts of letters (address, signature etc.)

# Macro definition with parameters

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Non-separated parameters, macro for various spaces
- Macros for some parts of letters (address, signature etc.)
- Separated parameters and its advantages

# Macro definition with parameters

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Non-separated parameters, macro for various spaces
- Macros for some parts of letters (address, signature etc.)
- Separated parameters and its advantages
- Macros for complete structural marking of letter

# Macro definition with parameters

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Non-separated parameters, macro for various spaces
- Macros for some parts of letters (address, signature etc.)
- Separated parameters and its advantages
- Macros for complete structural marking of letter
- The style file, link to style file (example of letter marking)

# UTF-8 encoding

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with text from previous laboratory – insert dashes into source text (code 0150 or 0151) and compare it with two (three) hyphens

# UTF-8 encoding

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with text from previous laboratory – insert dashes into source text (code 0150 or 0151) and compare it with two (three) hyphens
- Insert quotes “,”

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with text from previous laboratory – insert dashes into source text (code 0150 or 0151) and compare it with two (three) hyphens
- Insert quotes “,”
- Create macro `\quote` with 1 parameter for typesetting text in quotes

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with text from previous laboratory – insert dashes into source text (code 0150 or 0151) and compare it with two (three) hyphens
- Insert quotes “,”
- Create macro `\quote` with 1 parameter for typesetting text in quotes
- Insert various national characters – package `polyglossia` and setting `\setdefaultlanguage`

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with text from previous laboratory – insert dashes into source text (code 0150 or 0151) and compare it with two (three) hyphens
- Insert quotes “,”
- Create macro `\quote` with 1 parameter for typesetting text in quotes
- Insert various national characters – package `polyglossia` and setting `\setdefaultlanguage`
- Insert various math symbols and test if it is in main font

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with text from previous laboratory – insert dashes into source text (code 0150 or 0151) and compare it with two (three) hyphens
- Insert quotes “,”
- Create macro `\quote` with 1 parameter for typesetting text in quotes
- Insert various national characters – package `polyglossia` and setting `\setdefaultlanguage`
- Insert various math symbols and test if it is in main font
- Change main font and test presence of special characters

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with text from previous laboratory – insert dashes into source text (code 0150 or 0151) and compare it with two (three) hyphens
- Insert quotes “,”
- Create macro `\quote` with 1 parameter for typesetting text in quotes
- Insert various national characters – package `polyglossia` and setting `\setdefaultlanguage`
- Insert various math symbols and test if it is in main font
- Change main font and test presence of special characters
- Insert and test various national characters from different languages

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use previous text. Predefined lengths: experiment with setting of `\parindent` and `\parskip`

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use previous text. Predefined lengths: experiment with setting of `\parindent` and `\parskip`
- Define new length register for form fill places. Define new macro `\fplace` which creates a hole in a paragraph of the size given by the length register

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use previous text. Predefined lengths: experiment with setting of `\parindent` and `\parskip`
- Define new length register for form fill places. Define new macro `\fplace` which creates a hole in a paragraph of the size given by the length register
- Define a similar macro which creates a hole in a paragraph filled by dots

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use previous text. Predefined lengths: experiment with setting of `\parindent` and `\parskip`
- Define new length register for form fill places. Define new macro `\fplace` which creates a hole in a paragraph of the size given by the length register
- Define a similar macro which creates a hole in a paragraph filled by dots
- Experiment with commands `\hspace` and `\hspace*`

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use previous text. Predefined lengths: experiment with setting of `\parindent` and `\parskip`
- Define new length register for form fill places. Define new macro `\fplace` which creates a hole in a paragraph of the size given by the length register
- Define a similar macro which creates a hole in a paragraph filled by dots
- Experiment with commands `\hspace` and `\hspace*`
- Create macro `\flushbottom` to move any following text to the bottom margin of this page

1. TeX system – basic principles

2. Fonts and macros

3. UTF-8 encoding; lengths

4. Font shapes; colors

5. Sections, initials; counters

6. Paragraph parameters; margin pars; footnotes

7. Math expressions

8. Tables

9. Graphics

10. Running heads, table of contents; pages imposition

11. Document proposal and realisation

- Use previous text. Predefined lengths: experiment with setting of `\parindent` and `\parskip`
- Define new length register for form fill places. Define new macro `\fplace` which creates a hole in a paragraph of the size given by the length register
- Define a similar macro which creates a hole in a paragraph filled by dots
- Experiment with commands `\hspace` and `\hspace*`
- Create macro `\flushbottom` to move any following text to the bottom margin of this page
- Change the macro `\fplace` so that the size will be from 2 to 4 cm depending on the alignment of the paragraph

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with text from previous laboratory – insert command for emphasize `\em`

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with text from previous laboratory – insert command for emphasize `\em`
- Check the nested appearance of emphasize command (it may switch to italic and back to upshape)

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with text from previous laboratory – insert command for emphasize `\em`
- Check the nested appearance of emphasize command (it may switch to italic and back to upshape)
- Insert command for bold face, both variant (with parameter or as a switch)

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with text from previous laboratory – insert command for emphasize `\em`
- Check the nested appearance of emphasize command (it may switch to italic and back to upshape)
- Insert command for bold face, both variant (with parameter or as a switch)
- Test if main font has small caps

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with text from previous laboratory – insert command for emphasize `\em`
- Check the nested appearance of emphasize command (it may switch to italic and back to upshape)
- Insert command for bold face, both variant (with parameter or as a switch)
- Test if main font has small caps
- Create simple macros for typesetting of bibliographic citation: `\bibauthor` (for small caps) and `\bibname` (for italic)

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with text from previous laboratory – insert command for emphasize `\em`
- Check the nested appearance of emphasize command (it may switch to italic and back to upshape)
- Insert command for bold face, both variant (with parameter or as a switch)
- Test if main font has small caps
- Create simple macros for typesetting of bibliographic citation: `\bibauthor` (for small caps) and `\bibname` (for italic)
- Create macro for code typeset (for typewriter shape)

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with previous text – define command `\strong` with one parameter which typeset text in parameter in bold face and blue color. Apply this macro in text for strong emphasizing

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with previous text – define command `\strong` with one parameter which typeset text in parameter in bold face and blue color. Apply this macro in text for strong emphasizing
- Select some words in text and typeset it with light gray background

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with previous text – define command `\strong` with one parameter which typeset text in parameter in bold face and blue color. Apply this macro in text for strong emphasizing
- Select some words in text and typeset it with light gray background
- Select some words in text and typeset it with red frame

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with previous text – define command `\strong` with one parameter which typeset text in parameter in bold face and blue color. Apply this macro in text for strong emphasizing
- Select some words in text and typeset it with light gray background
- Select some words in text and typeset it with red frame
- Experiment with command `\fcolorbox`

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Experiment with previous text – define command `\strong` with one parameter which typeset text in parameter in bold face and blue color. Apply this macro in text for strong emphasizing
- Select some words in text and typeset it with light gray background
- Select some words in text and typeset it with red frame
- Experiment with command `\fcolorbox`
- Define your own color by command `\definecolor`. Use an RGB color space

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with previous text – define command `\strong` with one parameter which typeset text in parameter in bold face and blue color. Apply this macro in text for strong emphasizing
- Select some words in text and typeset it with light gray background
- Select some words in text and typeset it with red frame
- Experiment with command `\fcolorbox`
- Define your own color by command `\definecolor`. Use an RGB color space
- Use your own color to redefine the `\strong` macro

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Experiment with previous text – define command `\strong` with one parameter which typeset text in parameter in bold face and blue color. Apply this macro in text for strong emphasizing
- Select some words in text and typeset it with light gray background
- Select some words in text and typeset it with red frame
- Experiment with command `\fcolorbox`
- Define your own color by command `\definecolor`. Use an RGB color space
- Use your own color to redefine the `\strong` macro
- Experiment with command `\pagecolor`

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters**
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with text from previous laboratory and make sure the text is long enough for multiple pages

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with text from previous laboratory and make sure the text is long enough for multiple pages
- Divide text into two or three sections and apply commands for section titles (`\section`, `\subsection` etc.)

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with text from previous laboratory and make sure the text is long enough for multiple pages
- Divide text into two or three sections and apply commands for section titles (`\section`, `\subsection` etc.)
- Apply star-form commands too (`\section*`)

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with text from previous laboratory and make sure the text is long enough for multiple pages
- Divide text into two or three sections and apply commands for section titles (`\section`, `\subsection` etc.)
- Apply star-form commands too (`\section*`)
- Watch the result form of titles

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with text from previous laboratory and make sure the text is long enough for multiple pages
- Divide text into two or three sections and apply commands for section titles (`\section`, `\subsection` etc.)
- Apply star-form commands too (`\section*`)
- Watch the result form of titles
- Experiment with `\pagestyle` command – parameter `headings`

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with text from previous laboratory and make sure the text is long enough for multiple pages
- Divide text into two or three sections and apply commands for section titles (`\section`, `\subsection` etc.)
- Apply star-form commands too (`\section*`)
- Watch the result form of titles
- Experiment with `\pagestyle` command – parameter `headings`
- Apply command `\markright` or `\markboth`

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with text from previous laboratory and make sure the text is long enough for multiple pages
- Divide text into two or three sections and apply commands for section titles (`\section`, `\subsection` etc.)
- Apply star-form commands too (`\section*`)
- Watch the result form of titles
- Experiment with `\pagestyle` command – parameter `headings`
- Apply command `\markright` or `\markboth`
- Experiment with initials – apply very large first letter in selected paragraph, can be used for example `yinit` font

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Change the value of `page` counter, set initial page number to 10

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters**
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Change the value of `page` counter, set initial page number to 10
- Change the shape of `section` counter to upper Roman numerals

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Change the value of `page` counter, set initial page number to 10
- Change the shape of `section` counter to upper Roman numerals
- Create your own counter for numbering of special paragraphs. Create macro which steps this counter and display its value on start of paragraph in green color

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Change the value of `page` counter, set initial page number to 10
- Change the shape of `section` counter to upper Roman numerals
- Create your own counter for numbering of special paragraphs. Create macro which steps this counter and display its value on start of paragraph in green color
- Apply previous macro to selected paragraphs

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Change the value of `page` counter, set initial page number to 10
- Change the shape of `section` counter to upper Roman numerals
- Create your own counter for numbering of special paragraphs. Create macro which steps this counter and display its value on start of paragraph in green color
- Apply previous macro to selected paragraphs
- Create reference to paragraphs labelled with your own counter

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Change the value of `page` counter, set initial page number to 10
- Change the shape of `section` counter to upper Roman numerals
- Create your own counter for numbering of special paragraphs. Create macro which steps this counter and display its value on start of paragraph in green color
- Apply previous macro to selected paragraphs
- Create reference to paragraphs labelled with your own counter
- Create page reference to selected sections in text

# Paragraphs

- Use text from previous laboratory. On selected part apply left aligning

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

# Paragraphs

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use text from previous laboratory. On selected part apply left aligning
- Create own macro for numbered titles which will typeset centered one

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use text from previous laboratory. On selected part apply left aligning
- Create own macro for numbered titles which will typeset centered one
- Experiment with paragraph typesetting into three columns – the environment `multicols` from package `multicol`. Change the parameters of word division algorithm: `\lefthyphenmin` and `\righthyphenmin`

# Paragraphs

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use text from previous laboratory. On selected part apply left aligning
- Create own macro for numbered titles which will typeset centered one
- Experiment with paragraph typesetting into three columns – the environment `multicols` from package `multicol`. Change the parameters of word division algorithm: `\lefthyphenmin` and `\righthyphenmin`
- Use manual hyphens to appropriate word divide

# Paragraphs

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use text from previous laboratory. On selected part apply left aligning
- Create own macro for numbered titles which will typeset centered one
- Experiment with paragraph typesetting into three columns – the environment `multicols` from package `multicol`. Change the parameters of word division algorithm: `\lefthyphenmin` and `\righthyphenmin`
- Use manual hyphens to appropriate word divide
- Use `\leftskip` or `\rightskip` registers to change left and right paragraph margin

# Paragraphs

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use text from previous laboratory. On selected part apply left aligning
- Create own macro for numbered titles which will typeset centered one
- Experiment with paragraph typesetting into three columns – the environment `multicols` from package `multicol`. Change the parameters of word division algorithm: `\lefthyphenmin` and `\righthyphenmin`
- Use manual hyphens to appropriate word divide
- Use `\leftskip` or `\rightskip` registers to change left and right paragraph margin
- Redefine the `\baselinestretch` to change line spacing of selected part of text

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Insert into text from previous laboratory the following math expressions:

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Insert into text from previous laboratory the following math expressions:
- 

$$P = \sum_{i=1}^n g(A + ik) \quad (1)$$

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Insert into text from previous laboratory the following math expressions:

- 

$$P = \sum_{i=1}^n g(A + ik) \quad (1)$$

- 

$$y = \left[ \frac{x(x^2 - 1)}{x + 1} - \frac{x + 1}{x(x - 1)^2} \right]^3$$

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Insert into text from previous laboratory the following math expressions:

- 

$$P = \sum_{i=1}^n g(A + ik) \quad (1)$$

- 

$$y = \left[ \frac{x(x^2 - 1)}{x + 1} - \frac{x + 1}{x(x - 1)^2} \right]^3$$

- 

$$C \leq 2^N \quad (2)$$

$$\log C \leq N \log 2$$

$$N = \left\lceil \frac{\log C}{\log 2} \right\rceil \quad (3)$$

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

success rate = 
$$\frac{\text{number of correct answers}}{\text{number of examples entered}}$$

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation



$$\text{success rate} = \frac{\text{number of correct answers}}{\text{number of examples entered}}$$



$$\lim_{\Delta x \rightarrow 0} \frac{f(x) - f(x + \Delta x)}{\Delta x}$$

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation



$$\text{success rate} = \frac{\text{number of correct answers}}{\text{number of examples entered}}$$



$$\lim_{\Delta x \rightarrow 0} \frac{f(x) - f(x + \Delta x)}{\Delta x}$$



$$\text{discontinuous function } g(\xi) = \begin{cases} 0 & \text{for } \xi < 0 \\ 2\xi & \text{for } \xi \in (0, 1) \\ 2 & \text{for } \xi \leq 1 \end{cases}$$

# Math expressions

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation



$$\text{success rate} = \frac{\text{number of correct answers}}{\text{number of examples entered}}$$



$$\lim_{\Delta x \rightarrow 0} \frac{f(x) - f(x + \Delta x)}{\Delta x}$$



$$\text{discontinuous function } g(\xi) = \begin{cases} 0 & \text{for } \xi < 0 \\ 2\xi & \text{for } \xi \in (0, 1) \\ 2 & \text{for } \xi \leq 1 \end{cases}$$



transfer matrix:

$$\begin{bmatrix} \alpha_{11} & \beta_{12} \\ \gamma_{21} & \delta_{22} \end{bmatrix} \quad (4)$$

# The tabbing environment

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
- 8. Tables**
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Typeset the following table:

# The tabbing environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables**
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Typeset the following table:
- | City                | Temperature at 7 AM |
|---------------------|---------------------|
| Philadelphia        | 17.5° C             |
| New York            | 16.8° C             |
| Washington          | 15.9° C*            |
| *uncalibrated scale |                     |
| Boston              | 19.5° C             |
| Los Angeles         | 12.8° C             |
| San Francisco       | 16.6° C             |
| Anchorage           | -0.5° C             |
| Fairbanks           | -2.8° C             |

# The tabbing environment

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
- 8. Tables**
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Typeset the following source code:

# The tabbing environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables**
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Typeset the following source code:
- **procedure Number(var C: longint);**  
**var R: string;**  
Position: byte;  
**begin** Position:=5;  
         **while not eof do begin**  
            **readln(R);**  
            //now will be write the main information:  
            **writeln(C: Position, '–', R)**  
         **end**  
**end;**

# The **tabular** environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables**
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- 1. Typeset the following table:

# The **tabular** environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables**
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- 1. Typeset the following table:

O.	Country	Score	Points
1.	Italy	23: 4	14
2.	France	18: 7	10
3.	Sweden	14: 10	8
4.	Switzerland	3: 18	3
5.	Austria	1: 19	0

# The **tabular** environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables**
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- 1. Typeset the following table:

O.	Country	Score	Points
1.	Italy	23: 4	14
2.	France	18: 7	10
3.	Sweden	14: 10	8
4.	Switzerland	3: 18	3
5.	Austria	1: 19	0

- 2. Typeset your personal timetable

# Insert graphics

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Work with file from previous laboratory

# Insert graphics

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Work with file from previous laboratory
- Prepare a graphics file of JPG format (from internet or own sources)

# Insert graphics

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with file from previous laboratory
- Prepare a graphics file of JPG format (from internet or own sources)
- Insert graphics file into document and set its width to 70% of text width

# Insert graphics

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with file from previous laboratory
- Prepare a graphics file of JPG format (from internet or own sources)
- Insert graphics file into document and set its width to 70% of text width
- Experiment with other parameters of `\includegraphics` command

# Insert graphics

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with file from previous laboratory
- Prepare a graphics file of JPG format (from internet or own sources)
- Insert graphics file into document and set its width to 70% of text width
- Experiment with other parameters of `\includegraphics` command
- Rotate the previous picture to  $35^\circ$  counterclockwise

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Work with file from previous laboratory
- Prepare a graphics file of JPG format (from internet or own sources)
- Insert graphics file into document and set its width to 70% of text width
- Experiment with other parameters of `\includegraphics` command
- Rotate the previous picture to  $35^\circ$  counterclockwise
- Reflect selected part of text

# The **picture** environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics**
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare any scheme (blocks, oriented links, texts)

# The *picture* environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare any scheme (blocks, oriented links, texts)
- Use the *picture* environment to draw prepared scheme

# The `picture` environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare any scheme (blocks, oriented links, texts)
- Use the `picture` environment to draw prepared scheme
- Use the `\multiput` command to repeat selected part of picture

# The `picture` environment

- 1. `\TeX` system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare any scheme (blocks, oriented links, texts)
- Use the `picture` environment to draw prepared scheme
- Use the `\multiput` command to repeat selected part of picture
- Combine commands for line and text with various colors

# The `picture` environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare any scheme (blocks, oriented links, texts)
- Use the `picture` environment to draw prepared scheme
- Use the `\multiput` command to repeat selected part of picture
- Combine commands for line and text with various colors
- Use the `picture` environment with zero dimensions for draw the cropmarks

# The `picture` environment

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare any scheme (blocks, oriented links, texts)
- Use the `picture` environment to draw prepared scheme
- Use the `\multiput` command to repeat selected part of picture
- Combine commands for line and text with various colors
- Use the `picture` environment with zero dimensions for draw the cropmarks
- Use the `picture` environment with zero dimensions for draw the watermark under text of selected page

# Running heads

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory

# Running heads

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory
- Set the twoside document and default page headings

# Running heads

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory
- Set the twoside document and default page headings
- Redefine the command `\ps@headings` to set your own shape of headings

# Running heads

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use the document from previous laboratory
- Set the twoside document and default page headings
- Redefine the command `\ps@headings` to set your own shape of headings
- Use the command `\markboth` to set the content of running heads

# Running heads

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use the document from previous laboratory
- Set the twoside document and default page headings
- Redefine the command `\ps@headings` to set your own shape of headings
- Use the command `\markboth` to set the content of running heads
- Experiment with `fancyhdr` package for set running heads

# Running heads

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use the document from previous laboratory
- Set the twoside document and default page headings
- Redefine the command `\ps@headings` to set your own shape of headings
- Use the command `\markboth` to set the content of running heads
- Experiment with `fancyhdr` package for set running heads
- Set the name of section to the left heading and the name of subsection to the right heading; set page numbering in bold face to the outer margin of page foot

# Table of contents

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory

# Table of contents

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory
- Create title page of document

# Table of contents

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use the document from previous laboratory
- Create title page of document
- Create special page with table of contents after title page

# Table of contents

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use the document from previous laboratory
- Create title page of document
- Create special page with table of contents after title page
- Add all star-form titles to the table of contents

# Table of contents

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use the document from previous laboratory
- Create title page of document
- Create special page with table of contents after title page
- Add all star-form titles to the table of contents
- Wrap all tables with `table` environment and all pictures with `figure` environment; add all captions

# Table of contents

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Use the document from previous laboratory
- Create title page of document
- Create special page with table of contents after title page
- Add all star-form titles to the table of contents
- Wrap all tables with `table` environment and all pictures with `figure` environment; add all captions
- Add list of tables and list of figures after table of contents

# Page imposition

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory and add the `geometry` package

# Page imposition

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory and add the `geometry` package
- Set the page dimensions to format A5 and correct all possible overfulls

# Page imposition

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory and add the `geometry` package
- Set the page dimensions to format A5 and correct all possible overfulls
- Create a new document with `pdfpages` package

# Page imposition

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Use the document from previous laboratory and add the `geometry` package
- Set the page dimensions to format A5 and correct all possible overfulls
- Create a new document with `pdfpages` package
- Insert previous document and impose 2 pages to 1 A4 paper in brochure format

# Document proposal

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Collect material to the new document (texts, pictures, tables etc.)

# Document proposal

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Collect material to the new document (texts, pictures, tables etc.)
- Establish general form of whole document (printed/electronic form, paper format etc.)

# Document proposal

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Collect material to the new document (texts, pictures, tables etc.)
- Establish general form of whole document (printed/electronic form, paper format etc.)
- Find all document elements and create an overview on paper

# Document proposal

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Collect material to the new document (texts, pictures, tables etc.)
- Establish general form of whole document (printed/electronic form, paper format etc.)
- Find all document elements and create an overview on paper
- Propose the visual parameters for each document element, use the typographics rules

# Document proposal

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Collect material to the new document (texts, pictures, tables etc.)
- Establish general form of whole document (printed/electronic form, paper format etc.)
- Find all document elements and create an overview on paper
- Propose the visual parameters for each document element, use the typographics rules
- Establish typographics and logical links between individual document elements

# Document realisation

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Prepare text material – solve the use of special characters, divide text into paragraphs

# Document realisation

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Prepare text material – solve the use of special characters, divide text into paragraphs
- Use the document proposal and prepare system of structural markup

# Document realisation

1. TeX system – basic principles
2. Fonts and macros
3. UTF-8 encoding; lengths
4. Font shapes; colors
5. Sections, initials; counters
6. Paragraph parameters; margin pars; footnotes
7. Math expressions
8. Tables
9. Graphics
10. Running heads, table of contents; pages imposition
11. Document proposal and realisation

- Prepare text material – solve the use of special characters, divide text into paragraphs
- Use the document proposal and prepare system of structural markup
- Use proposed structural marks in document material

# Document realisation

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare text material – solve the use of special characters, divide text into paragraphs
- Use the document proposal and prepare system of structural markup
- Use proposed structural marks in document material
- Create style file and create all macros for structural markup

# Document realisation

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare text material – solve the use of special characters, divide text into paragraphs
- Use the document proposal and prepare system of structural markup
- Use proposed structural marks in document material
- Create style file and create all macros for structural markup
- Prepare and realise tables and math expressions

# Document realisation

- 1. TeX system – basic principles
- 2. Fonts and macros
- 3. UTF-8 encoding; lengths
- 4. Font shapes; colors
- 5. Sections, initials; counters
- 6. Paragraph parameters; margin pars; footnotes
- 7. Math expressions
- 8. Tables
- 9. Graphics
- 10. Running heads, table of contents; pages imposition
- 11. Document proposal and realisation

- Prepare text material – solve the use of special characters, divide text into paragraphs
- Use the document proposal and prepare system of structural markup
- Use proposed structural marks in document material
- Create style file and create all macros for structural markup
- Prepare and realise tables and math expressions
- Insert all pictures and complete the document