

# Основи на $\text{\LaTeX}$

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# Основи на L<sup>A</sup>T<sub>E</sub>X

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The Article class

The Revtex4-1 class

The Elsevier class

The Book class

The Memoir class

1 The Article class

2 The Revtex4-1 class

3 The Elsevier class

4 The Book class

5 The Memoir class

The Article class

The Revtex4-1 class

The Elsevier class

The Book class

The Memoir class

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# Article

## The Article class

The Revtex4-1 class

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```

\documentclass{ article }
\usepackage[ a4paper ]{ geometry }
\usepackage[ utopia , expert ]{ mathdesign }
\usepackage[ graphics ]
\usepackage{ amsmath , amsfons , amssymb }
\numberwithin{ equation }{ section }
\usepackage[ english , bulgarian ]{ babel }
\usepackage[ square , sort&compress , numbers , elide , merge ]{ natbib }
\bibliographystyle{ ieeetr }
\bibsep 0.0\baselineskip
\usepackage{ hyperref }
\begin{ document }
\title { ... }
\author { ... }
\maketitle
\begin{ abstract }
...
\end{ abstract }

\section { ... }
\subsection { ... }

\bibliography { biblio }
\end{ document }

```

## Hyperref options

### The Article class

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```
\usepackage[ pdfauthor= ... ,  
              pdftitle= ... ,  
              pdfsubject= ... ,  
              pdfdisplaydoctitle=true ,  
              pdfkeywords= ... ,  
              bookmarks=true ,  
              pdfencoding=auto ,  
              breaklinks=true ,  
              colorlinks=true ,  
              citecolor=blue ,  
              anchorcolor=blue ,  
              urlcolor=blue ,  
              runcolor=blue ,  
              linkcolor=blue ,  
              pdfstartview=FitH ]{ hyperref }  
\usepackage[ pageref ]{ backref }
```

## The article class with utf8

### The Article class

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```

\documentclass[12pt,a4paper]{article}
\usepackage[usenames,dvipsnames]{xcolor}
\usepackage{amsmath}
\usepackage{unicode-math}
\setmathfont[math-style=TeX,bold-style=ISO,sans-style=italic]
{Asana-Math.otf}
\setmathfont[range={\mathcal,\mathbfcal},StylisticSet=1]
{Asana-Math.otf}
\usepackage{fontspec}
\setmainfont[Mapping=tex-text]{Candara}
\setsansfont[Mapping=tex-text]{Calibri}
\setromanfont[Mapping=tex-text]{Liberation Serif}
\setmonofont[Mapping=tex-text,Scale=0.8]{Liberation Mono}
\defaultfontfeatures{Scale=MatchLowercase}
\newfontface\urw[Color=0000AA]{URW Bookman L Demi Bold Italic}
\usepackage[babelshorthands]{polyglossia}
\setdefaultlanguage{bulgarian}
\setotherlanguage{english}
\usepackage[square,sort&compress,numbers,elide,merge]{natbib}
\bibliographystyle{ieeetr}
\bibsep 0.0\baselineskip
\usepackage[paper=a4paper]{geometry}
\usepackage{hyperref}
\begin{document}
...
\end{document}

```

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## Revtex4-1

```
\documentclass [ options ] { revtex4-1 }
\usepackage { hyperref }
\begin { document }
...
\bibliography { you bib file }
\end { document }
```

Loads natbib.sty by default

### Revtex4-1 options

- drat, final – optional
- a4paper – paper size
- aps, prb – Journal specific
- preprint, tighenlines – preprint style
- twocolumns, balancelastpage – two columns style
- eqsecnum – number by section
- longbibliography – show full bibliographic record
- showpacs – shows PACS

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## Elsevier article class

The Article class

The Revtex4-1 class

The Elsevier class

The Book class

The Memoir class

```
\documentclass[options]{elsarticle}  
\bibliographystyle{elsarticle-num}  
\bibliographystyle{elsarticle-harv}  
%\bibliographystyle{apsrev4-1}  
\begin{document}  
...  
\bibliography{you bib file}  
\end{document}
```

- Loads `natbib.sty` by default
- Natbib options are passed via `\biboptions`

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**Book class**

The Article class

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The Elsevier class

**The Book class**

The Memoir class

```

\documentclass [ openright ] { book }
\usepackage { lipsum }
\usepackage { hyperref }
\usepackage [ pageref ] { backref }
\begin { document }
\frontmatter
\title { Title Book }
\author { Me \& My self }
\date { some date }
\maketitle

\tableofcontents
\include { preface }           % use preface.tex

\mainmatter
\include { chapter1 }         % use chapter 1.tex
\include { chapter2 }         % use chapter 2.tex

\appendix
\include { appendix }         % use appendix.tex

\backmatter
\include { bibliography }     % use bibliography.tex

\end { document }

```

```

%chapter 1.tex
\chapter { Chapter 1 }
\lipsum [ 10-18 ]

```

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## The Memoir class

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```

\documentclass [ openright , extrafontsizes ]{ memoir }
\usepackage [ a4paper ]{ geometry }
\usepackage [ utopia , expert ]{ mathdesign }
\usepackage { lipsum }
\usepackage [ round , sort&compress , authoryear ]{ natbib }
\bibliographystyle { kluwer }
%\usepackage [ square , sort&compress , numbers ]{ natbib }
%\bibliographystyle { ieetr }
\bibsep 0.25\baselineskip
\usepackage [ Options ]{ hyperref }
\usepackage [ pageref ]{ backref }
\chapterstyle { verville }
\nouppercaseheads
\makeheadrule { headings } { \textwidth } { 0.65 pt }
\makefootrule { headings } { \textwidth } { 0.65 pt } { 1 pt }
\makeevenhead { headings } { \thepage } { } { \itshape \leftmark }
\makeoddhead { headings } { \itshape \rightmark } { } { \thepage }
\begin { document }
\frontmatter

\begin { titlingpage }

Title page

\end { titlingpage }

\tableofcontents
\include { preface }

\mainmatter

```

## The Memoir class

The Article class

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The Book class

The Memoir class

```

\documentclass [ openright , extrafont sizes ] { memoir }
\usepackage [ a4paper ] { geometry }
\usepackage [ utopia , expert ] { mathdesign }
\usepackage { lipsum }
\usepackage [ round , sort&compress , authoryear ] { natbib }
\bibliographystyle { kluwer }
%\usepackage [ square , sort&compress , numbers ] { natbib }
%\bibliographystyle { ieetr }
\bibsep 0.25\baselineskip
\usepackage [ Options ] { hyperref }
\usepackage [ pageref ] { backref }
\include { bluebox } % Defines the Chapter Style
\nouppercaseheads
\makeheadrule { headings } { \textwidth } { 0.65 pt }
\makefootrule { headings } { \textwidth } { 0.65 pt } { 1 pt }
\makeevenhead { headings } { \thepage } { } { \itshape \leftmark }
\makeoddhead { headings } { \itshape \rightmark } { } { \thepage }
\begin { document }
\frontmatter

\begin { titlingpage }

Title page

\end { titlingpage }

\tableofcontents
\include { preface }

\mainmatter

```



The Article class

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The Memoir class

## The Memoir class & Bulgarian

```

\documentclass [ openright , extrafontsizes ]{ memoir }
\usepackage [ a4paper ]{ geometry }
\usepackage { xcolor }
\usepackage { lipsum }
\usepackage { amsmath }
\usepackage { unicode-math }
\setmathfont [ math-style=TeX , bold-style=ISO , sans-style=italic ]%
{ Cambria Math }
\setmathfont [ range={\mathcal , \mathbfcal } , StylisticSet=1 ]%
{ Cambria Math }
\usepackage { fontspec }
\setmainfont [ Mapping=tex-text ]{ Candara }
\setsansfont [ Mapping=tex-text ]{ Calibri }
\setromanfont [ Mapping=tex-text ]{ Cambria }
\setmonofont [ Mapping=tex-text , Scale=0.8 ]{ Consolas }
\defaultfontfeatures { Scale=MatchLowercase }
\usepackage [ babelshorthands ]{ polyglossia }
\setdefaultlanguage { bulgarian }
\setotherlanguage { english }
\usepackage [ square , sort&compress , numbers , elide , merge ]{ natbib }
\biographystyle { ieeetr }
\bibsep 0.0\baselineskip
\usepackage [ ... ]{ hyperref }
\usepackage [ pageref ]{ backref }
\include { bluebox }
\nouppercaseheads
\makeheadrule { headings } { \textwidth } { 0.65 pt }
\makefootrule { headings } { \textwidth } { 0.65 pt } { 1 pt }
\makeevenhead { headings } { \thepage } { } { \itshape \leftmark }
\makeoddhead { headings } { \itshape \rightmark } { } { \thepage }
\begin { document }

```

***Благодаря за вниманието***

**&**

**УСПЕХ**