

Petar Stipanović :: Instalacija

L^AT_EX 2_ε

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❖ LaTeX vs Word

- **TeX** - kompjuterski alat za slaganje i pripremu tekstova za tisak
- **LaTeX** – makro paket, radi posao slovoslagar, autorima omogućuje slaganje i štampanje korištenjem unaprijed profesionalno definiranog izgleda visoke kvalitete
- **AmS-TeX** – makro paket, radi posao slovoslagara, omogućuje korištenje velikog broja dodatnih znakova i fontova, olakšava slaganje dugačkih formula preko više redaka, izradu dijagrama i sl.
- **LaTeX2e** – novi makro paket koji objedinjuje AmS-TeX i LaTeX
- I LaTeX i MS Word služe za pripremu raznih dokumenata za tisak
- I s jednim i s drugim može se tekst formatirati po želji
- Prednosti Worda: odmah vidimo rezultat formatiranja, nema grešaka u sintaksi koje bi onemogućile pregled ispisa...
- Prednosti LaTeXa: besplatan, jednostavnije mijenjanje stilova, “prisiljava” korisnika na kreiranje preglednih dokumenata...

❖ LaTeX – više verzija

- **LaTeX**

- Windows: <http://ctan.ijs.si/tex-archive/systems/windows/protext/>

- Linux: <http://www.tug.org/texlive/>

- Mac: <http://www.tug.org/mactex/2011/>

- Instalacije su za postscript interpreter i preglednik trivijalne (Next...) i nisu nužne

- **Postscript interpreter: Ghostscript** (za Win gs902w32.exe)

- <http://pages.cs.wisc.edu/~ghost/doc/GPL/gpl902.htm>

- **Postscript viewer: Ghostview** (za Win gsv49w32.exe)

- <http://pages.cs.wisc.edu/~ghost/gsview/get49.htm>

❖ LaTeX – novije verzije

MiKTeX



- MiKTeX

<http://miktex.org/download>

- TeXstudio

<http://texstudio.sourceforge.net/>

- Online LaTeX Editor (registrat se i koristiti, nema instalacije)

<https://www.sharelatex.com/>

Thesis - LaTeX Editor ShareLaTeX

ShareLaTeX Projects Support & Feedback Help Blog LaTeX Templates Plans & Pricing Info

Roar! Account

Thesis

- + New
- figures
- sections
 - instantons
 - m2-branes
 - polytopes
- abstract.tex
- conclusion.tex
- introduction.tex

```
2  
3 \subsubsection{M-theory and string theory}  
4  
5 The first part of this thesis concerns the  
relationship between M-theory and string theory.  
We are able to understand everything in string  
theory in terms of the fundamental string, but we  
do not have a similar fundamental description of M  
-theory. However, we know that whatever the full M  
-theory turns out to be, it must reduce to eleven  
dimensional supergravity and the five string  
theories in the appropriate limits. This informati  
on gives us concrete evidence about the objects  
that must therefore appear in M-theory, despite
```

M-theory and string theory

The first part of this thesis concerns the relationship between M-theory and string theory. We are able to understand everything in string theory in terms of the fundamental string, but we do not have a similar fundamental description of M-theory. However, we know that whatever the full M-theory turns out to be, it must reduce to eleven dimensional supergravity and the five string theories in the appropriate limits. This information gives us concrete evidence about the objects that must therefore appear in M-theory, despite our lack of a fundamental description. By understanding the links between these objects in M-theory and string theory we hope to be able to further reveal the complete M-theory picture.

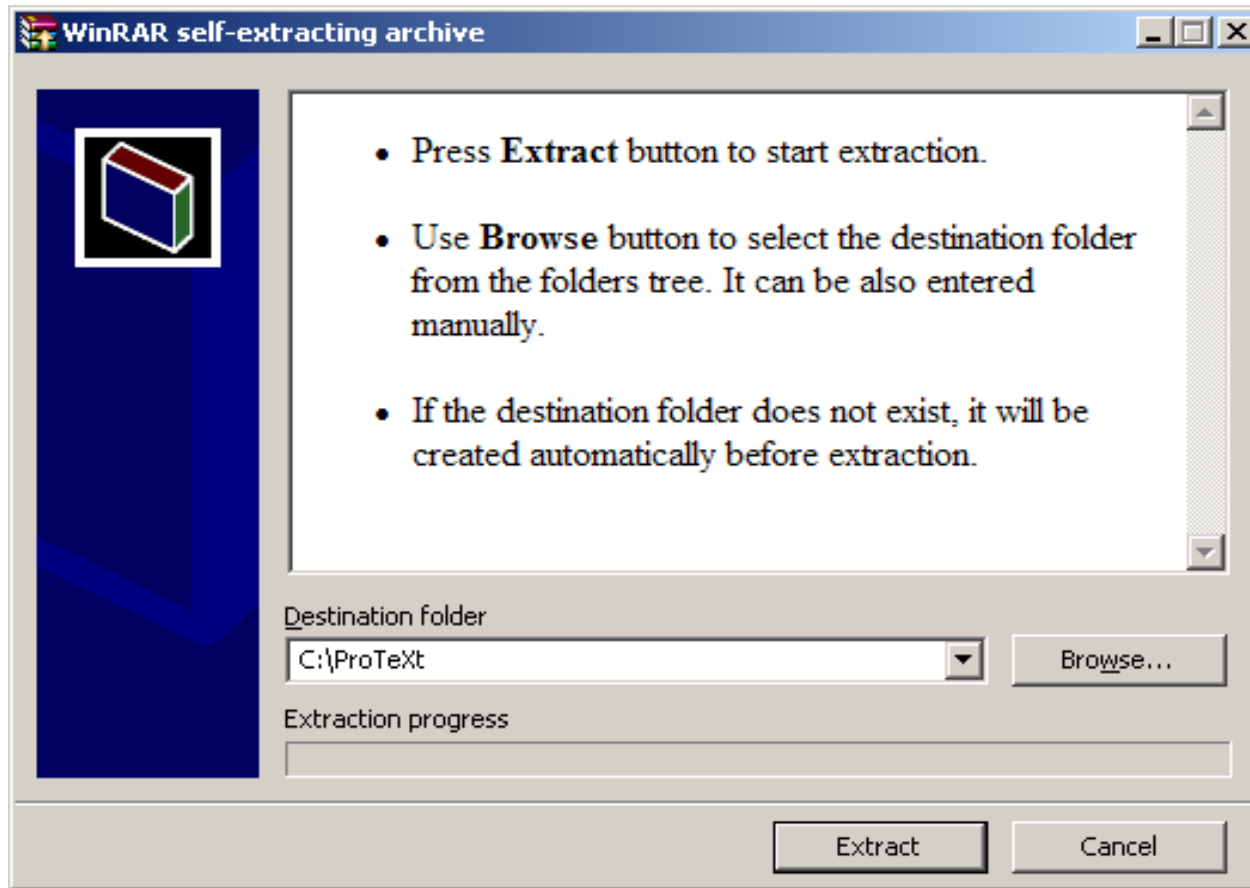
String theory is our most promising theory of quantum gravity and so has been considered seriously by physicists in recent decades. The rich spectrum of space-time states in string theory arises from the quantisation of a superconformal theory on the

❖ LaTeX – inštalacija na Windows-ima

- Pokrenimo ProTeXt*.exe (MiKTeX-baznu distribuciju)
- Odaberemo odredišni direktorij, npr. C:\ProTeXt\



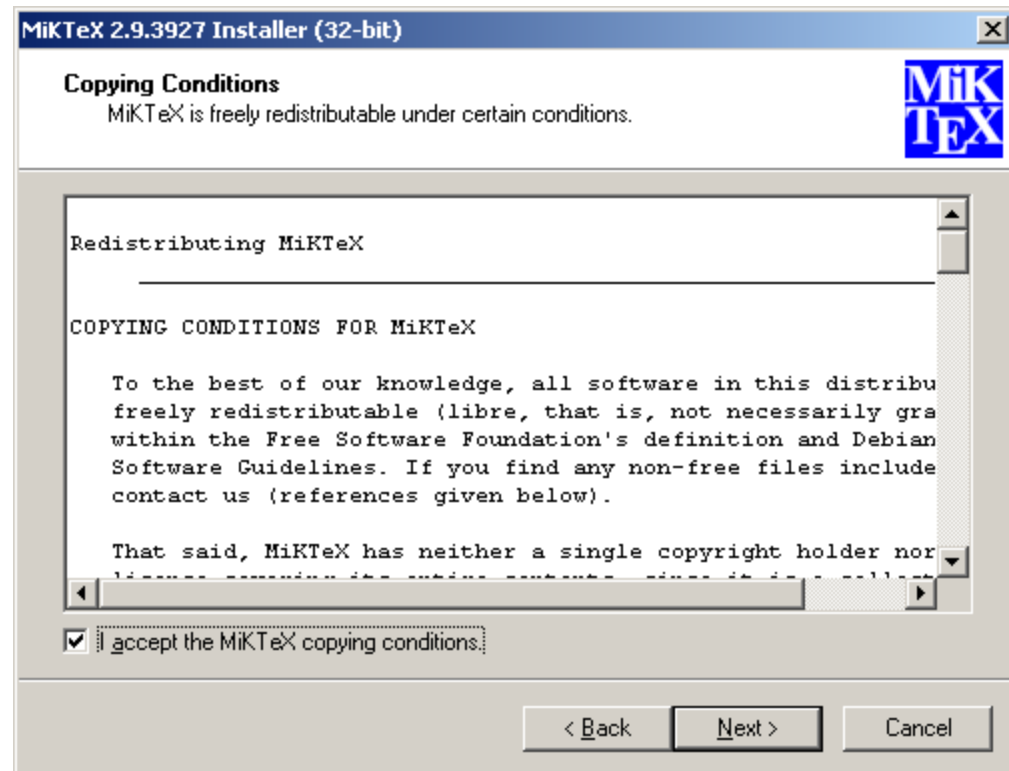
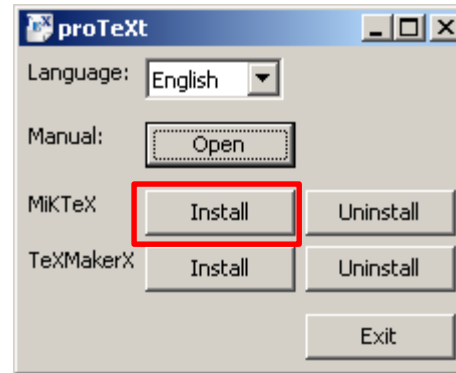
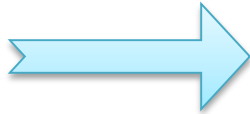
ProTeXt-3.0-070811.exe



- Instalacijski programi bit će raspakirani u C:\ProTeXt

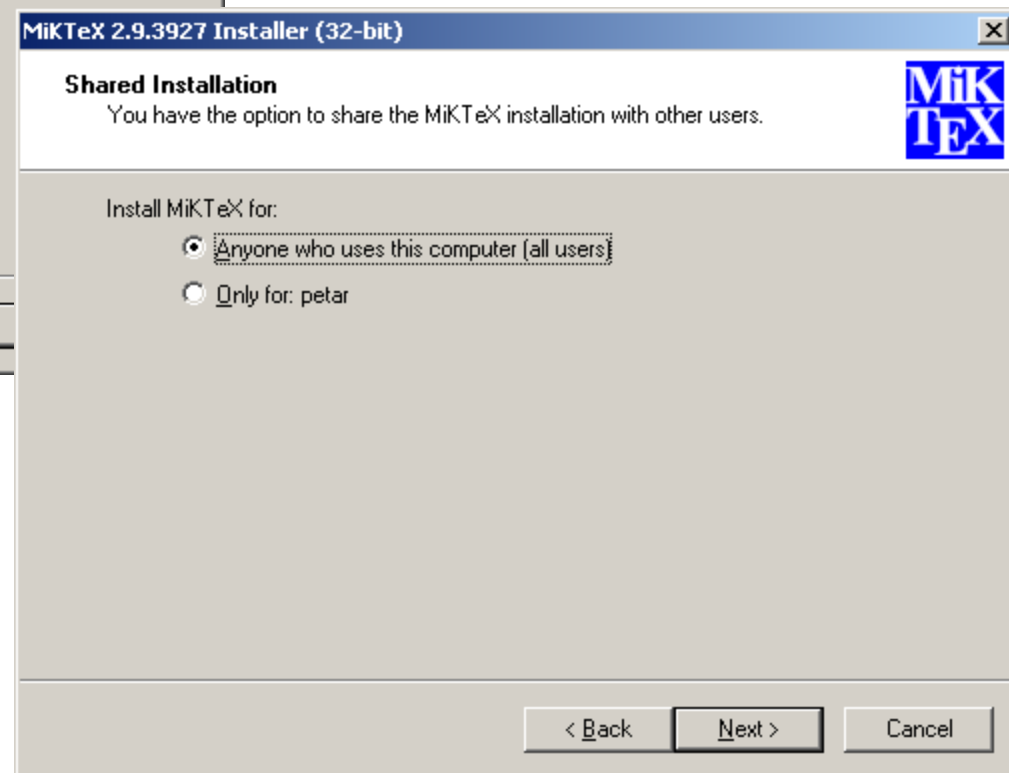
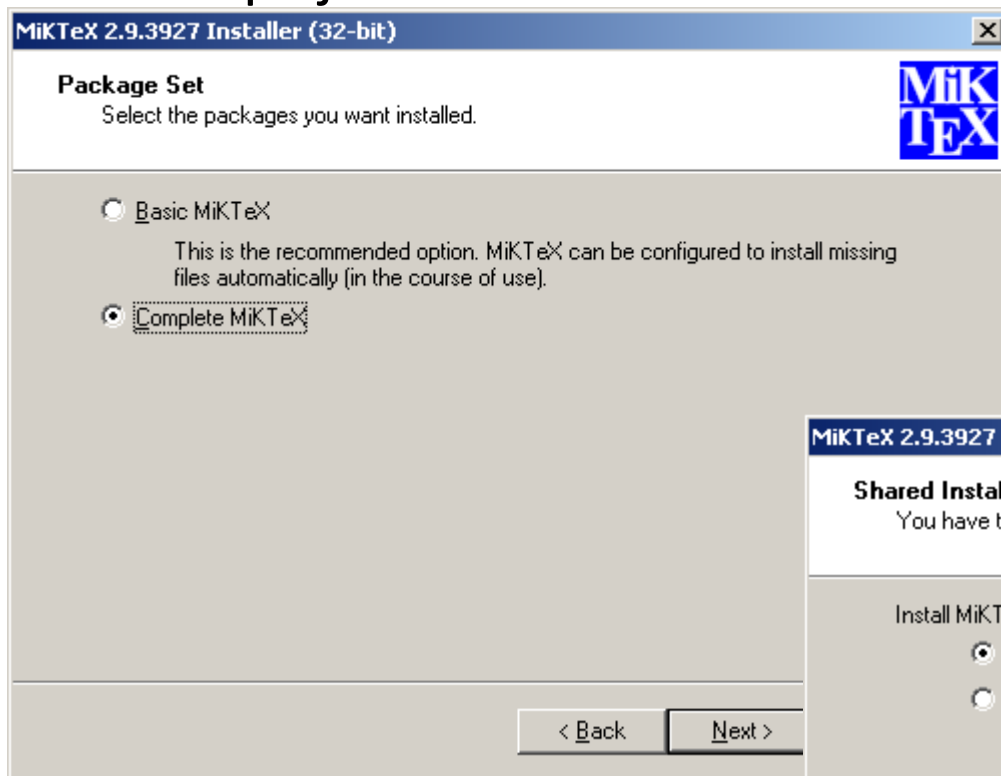
❖ LaTeX – instalacija MiKTeX-a

- Pokrenimo izbornik-aplikaciju (nalazi se odredišnom direktoriju)



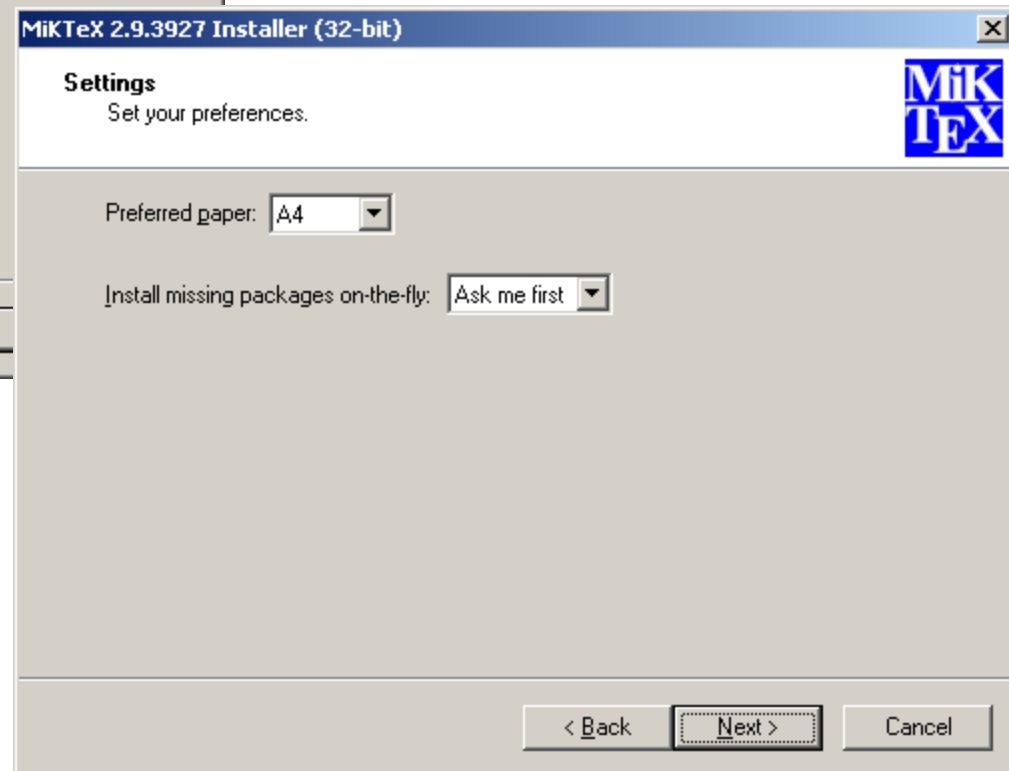
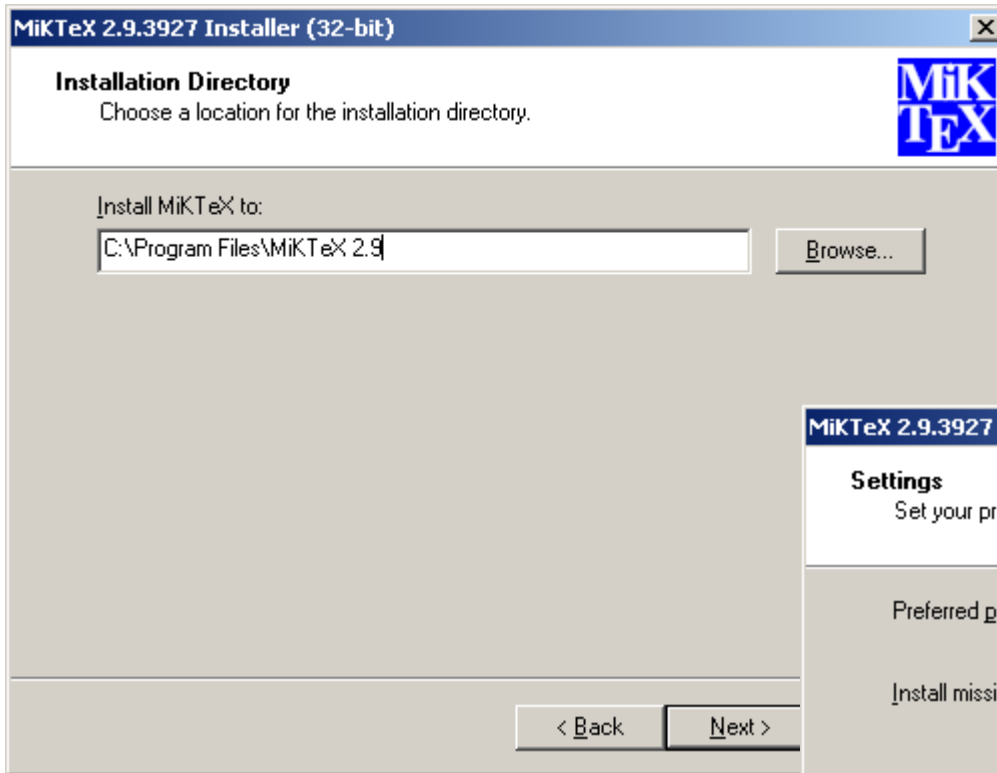
❖ LaTeX – inštalacija MiKTeX-a

- Biramo opcija kao na slikama i idemo na Next



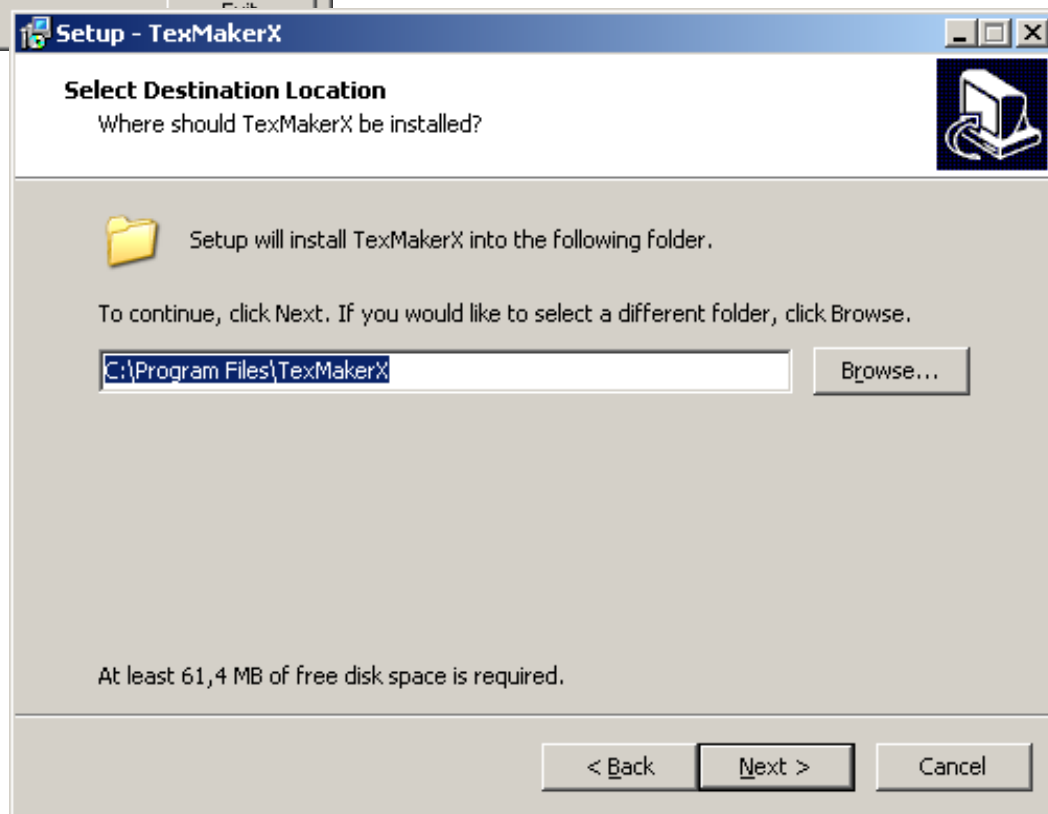
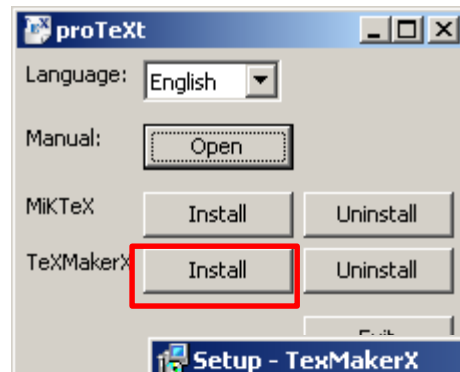
LaTeX – instalacija MiKTeX-a

- Birmo opcija kao na slikama i idemo na Next



❖ LaTeX – inštalacija za TeXMakerX (TeXStudio)

- Na sličan način kao MiKTeX instaliramo i TeXStudio, uglavnom Next



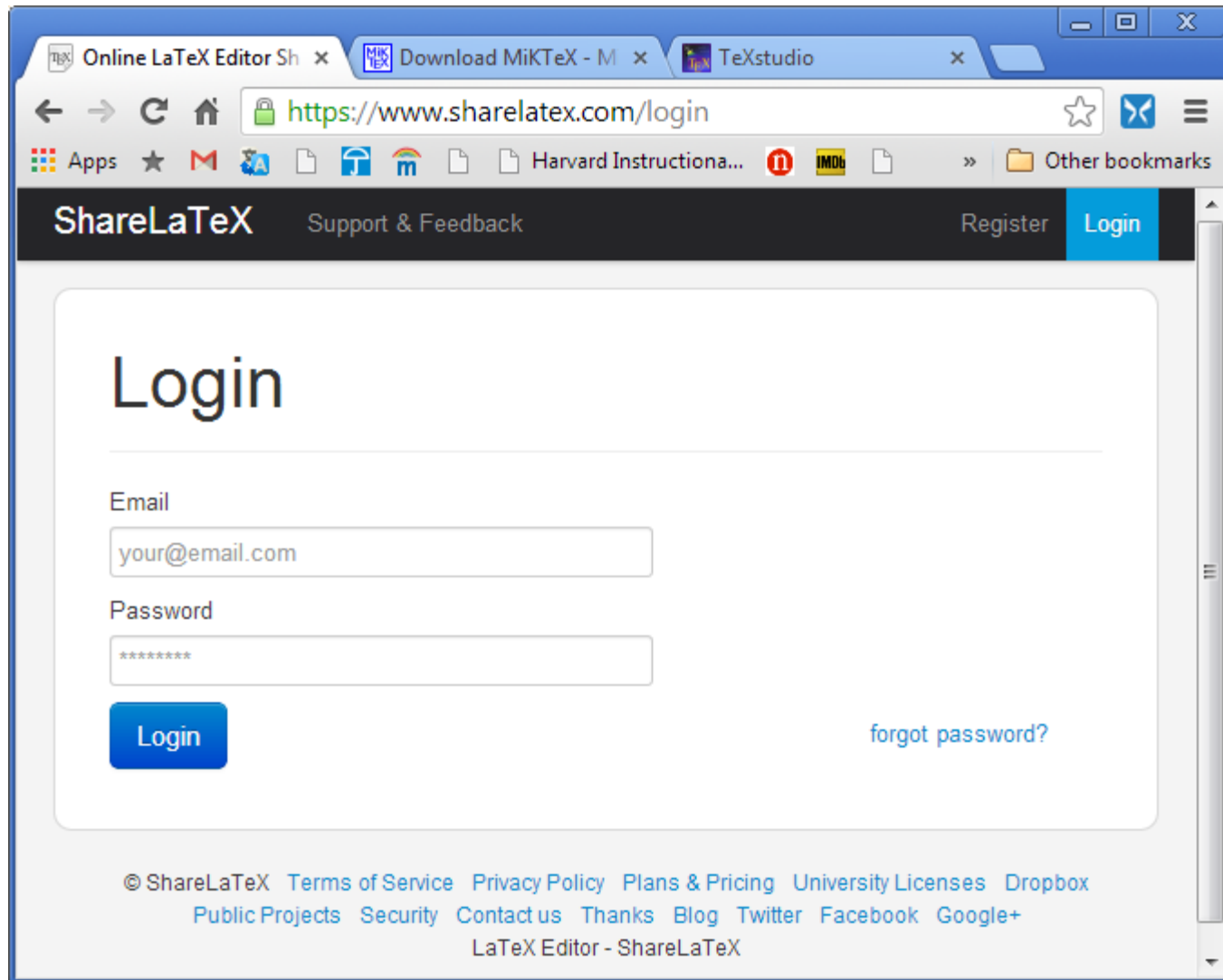
❖ LaTeX - TeXstudio

- Kako bi korištenje LaTeXa bilo jednostavnije, koristit ćemo TexStudio koji omogućava jednostavnije konverzije izlaznih formata te pomoću horizontalnih i vertikalnih alatnih traka omogućava jednostavniji unos simbola i naredbi...
- Odnos LaTeX koda i izlaznih formata (Izbornik Tools)
- Ispis dokumenta u pdf datoteku (F1 ili F6, F7)



- Naredbe:
 - razlikovati mala, velika slova
 - `\niz_slova` (završava razmakom ili znakom koji nije slovo abecede)
 - `\jedan_znak` (točno jedan znak koji nije slovo)
 - `\ime_naredbe[opcija1,opcija2,...]{argument1}{argument2}...`

- Register -> Login



The screenshot shows a web browser window with the URL <https://www.sharelatex.com/login>. The browser tabs include "Online LaTeX Editor Sh...", "Download MiKTeX - M...", and "TeXstudio". The browser's address bar and toolbar are visible. The page content features a dark navigation bar with the "ShareLaTeX" logo, "Support & Feedback" link, and "Register" and "Login" buttons. The main content area is titled "Login" and contains two input fields: "Email" (with the placeholder "your@email.com") and "Password" (with asterisks). A blue "Login" button is positioned below the password field, and a "forgot password?" link is to its right. The footer contains a list of links: "© ShareLaTeX", "Terms of Service", "Privacy Policy", "Plans & Pricing", "University Licenses", "Dropbox", "Public Projects", "Security", "Contact us", "Thanks", "Blog", "Twitter", "Facebook", and "Google+", followed by the text "LaTeX Editor - ShareLaTeX".

- New Project

The screenshot shows a web browser window with the URL <https://www.sharelatex.com/project>. The browser tabs include 'Your Projects - Online LaT...', 'Download MiKTeX - MiKT...', and 'TeXstudio'. The ShareLaTeX website header features navigation links: 'ShareLaTeX', 'Projects', 'Support & Feedback', 'Help', 'Blog', 'LaTeX Templates', 'Plans & Pricing', 'Info', and 'Account'. A left sidebar contains 'Projects', 'Account Settings', and 'Subscription'. A promotional box on the left says 'Get free stuff! Recommend ShareLaTeX to your friends and we'll upgrade your account for free.' with a 'Get free stuff' button. The main content area is titled 'Projects' and includes a search bar, a project entry for 'MPA1' (last modified on October 17 2013 5:04 PM - Private - Owner) with an 'Add Tag +' button, and an 'Actions' dropdown menu. The 'Actions' menu is open, showing options: 'Blank Project', 'Example Project', 'Upload Zipped Project', 'From Template', 'CV or Resume', 'Cover Letter', 'Journal Article', 'Presentation', 'Thesis', and 'Bibliographies'. The footer contains copyright information and links: '© ShareLaTeX Terms of Service Privacy Policy Plans & Pricing University PublicProjects Security Contact us Thanks Blog Twitter Facebook LaTeX Editor - ShareLaTeX'. The address bar at the bottom shows <https://www.sharelatex.com/project#>.

LaTeX - ShareLaTeX

- Open, Write, Compile (Recompile)

The screenshot displays the ShareLaTeX web interface. The browser tabs include 'MPA1 - Online LaTeX Edit', 'Download MiKTeX - MiKT', and 'TeXstudio'. The address bar shows the URL <https://www.sharelatex.com/project/525ffc6931d7d8200a0005b8>. The page header features the 'ShareLaTeX' logo and navigation links for Projects, Support & Feedback, Help, Blog, LaTeX Templates, Plans & Pricing, Info, and Account.

The main workspace is divided into three sections:

- Left Panel:** A sidebar for the project 'MPA1' containing a 'New' button and a file named 'main.tex'. A 'saved' status indicator is visible at the bottom.
- Center Panel:** A code editor showing the LaTeX source code:

```
1 \documentclass{article}
2 \usepackage[utf8]{inputenc}
3
4 \title{MPA1}
5 \author{Petar Stipanović}
6 \date{October 2013}
7
8 \begin{document}
9
10 \maketitle
11
12 \section{Introduction}
13
14 \end{document}
15
```
- Right Panel:** A preview window showing the rendered document. It includes buttons for 'Recompile', 'Logs', and 'Download'. The rendered output displays the title 'MPA1', the author 'Petar Stipanović', the date 'October 2013', and a section header '1 Introduction'.

A 'Chat' button is located in the bottom right corner of the interface.