The MiKT_EX Installation Procedure

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1 About this document

This document describes the MiKT_EX installation procedure. The latest version of this document is available from CTAN (PDF¹, HTML²).

2 Introduction

Four steps are necessary to install MiKTEX:

- 1. Check to see if the prerequisites are met.
- 2. Choose a package set.
- 3. Download MiKT_EX.
- 4. Install MiKT_EX.

http://www.ctan.org/tex-archive/systems/win32/miktex/setup/install.pdf

²http://www.ctan.org/tex-archive/systems/win32/miktex/setup/install.html

3 Prerequisites

MiKT_FX runs on all current Windows platforms.

MiKT_EX Setup Wizard does not install any operating system components (such as comct132.dll). It is taken for granted, that all required system components exist, either because they are a part of the operating system, or because they were installed by an operating system update (service pack).

The following system components are required by MiKTEX:

comctl32.dll

Version 5.80.2614.3600 (or later) of the Common Controls DLL must be installed. This is the case if the operating is Windows Me or Windows XP. For older operating systems, it might be necessary to get the DLL from Microsoft³.

wininet.dll

Version 4.70.0.1300 (or later) of the Internet Extensions DLL must be installed. It is a part of Internet Explorer 4.0 (or later).

MiKT_EX Setup Wizard displays a message and quits, if one of the required system components is missing.

4 Choosing a Package Set

You can choose between three package sets: "Small MiKTEX", "Large MiKTEX" and "Total MiKTEX".

"Small MiKT_EX"

This is a basic MiKT_EX system which gets you started.

"Large MiKT_EX"

This gives you the most important macro packages and fonts.

"Total MiKT_EX"

This includes all available packages.

Choose "Small MiKT_EX", if you are downloading MiKT_EX over a slow Internet connection or if you want to conserve disk space. It is possible to configure MiKT_EX in such a a way, that missing packages are automatically installed later (during run-time).

5 Downloading MiKT_EX

You can download MiKT_EX either with the help of MiKTeX Setup Wizard (setup.exe), or manually with the help of an FTP client. This installation guide covers the wizard method, because it is the recommended method for most users. See the MiKT_EX FAQ⁴, for a detailed description of the FTP method.

³http://www.microsoft.com/downloads/release.asp?releaseid=30318

⁴http://www.miktex.org/faq/index.html

- 1. Download the latest version of the wizard from the SourceForge.net download server⁵.
- 2. Start the wizard (**setup.exe**). You will be presented with the welcome page:



Click **Next >** to advance to the next page.

3. Click on the **Download only** radio button:

⁵http://sourceforge.net/project/showfiles.php?group_id=10783

MiKTeX Setup Wizard 2.2.7	
Setup Task Choose the primary task, MiKTeX Setup Wizard is to carry out.	
Choose one of the following setup tasks:	
< <u>B</u> ack <u>N</u> ext >	Cancel

4. Click on the package set that you wish to download:

💐 MiKTeX Setup	Wizard 2.2.	7 🛛 🔀
Package Set Choose a pac	kage set.	
<mark>⊙ S</mark> mall A sma	Download size: Size on disk: Il set of package:	23 MB 100 MB ss: TeX, recommended LaTeX packages, pdfTeX, Type1
fonts.	Download size:	CA MD
U Large	Size on disk:	100 MB
This a	idds Umega, e-1 e	eX and advanced macro packages like Con LeXt.
⊙ [otal	Download size: Size on disk:	143 MB 500 MB
All av	ailable packages.	k.
		< Back Next > Cancel

5. Choose a download location:

8	MiKTeX Set	up Wizard 2.2.7	\mathbf{X}	
	Remote Pac Select an	kage Repository emote package repository.		
	MiKTeX Setup Wizard will download required packages from a remote package repository selected below. In order to reduce network load, it is recommended that you use the remote package repository which is located in the closest network proximity to your site. Alternatively, you may wish to obtain a copy of the MIKTeX CD-R (see http://www.miktex.org). Available package repositories:			
	Country	URL	Description	
	Italy	htp://cis.uniRoma2.it/TeX/systems/win32/miktex/tm/	CTAN mirror	
	Japan	ftp://ftp.lab.kdd.co.jp/CTAN/systems/win32/miktex/t	CTAN mirror	
	Japan	htp://htp.meisei-u.ac.jp/pub/CTAN/systems/win32/mik	CTAN mirror	
	Japan	ftp://ftp.riken.go.jp/pub/tex-archive/systems/win32/m	CTAN mirror	
	Japan	htp://htp.u-aizu.ac.jp/pub/tex/CTAN/systems/win32/	CTAN mirror	
	Japan	htp://sunsite.sut.ac.jp/pub/archives/ctan/systems/wi	CTAN mirror	
	NSW, Au	http://ctan.unsw.edu.au/tex-archive/systems/win32/mi	CTAN mirror	
		< Back Nex	t> Cancel	

MiKT_EX Setup Wizard will download packages from a remote package repository. Choose a repository which is located in the closest network proximity to your location. Click **Next >** to go to the next page.

6. Specify the location of the local package repository:

MiKTeX Setup Wizard 2.2.7	×
Local Package Repository Select the local package repository.	
MiKTeX Setup Wizard will download required packages to the following folder on your computer. To select a different folder, click Browse. Path to local package repository: C:\Downloads\MiKTeX-2.2	
< Back Next > Cancel	

Downloaded packages will be stored in the *local package repository*, a directory on your computer. Later you will run the wizard again to install MiKTEX from here. Click **Next >** to go to the next page.

7. Review the download settings:

🕘 MiKTeX Set	up Wizard 2.2.7 🛛 🔀
Setup Inform Review ∜	nation ne setup settings.
MiKTeX S review or click Next Settings:	etup Wizard has enough information to start the installation. If you want to change any of the settings, click Back. If you are satisfied with the settings, to start the installation.
Download to	d complete package set from ftp://ftp.univie.ac.at/packages/tex/systems/win32/miktex/tm/package: C:\Downloads\MiKTeX-2.2
	< Back Next > Cancel

Click < Back, if you want to change the settings. Click Next > to start the download process.

8. Two progress bars indicate the progress of the download operation:

MiKTeX Setup Wizard 2.2.7	
MiKTeX Package Download MiKTeX Setup Wizard will now download the selected packages to a local package repository.	
Downloading: pxfonts	
Overall progress ETA: 2 hours, 0 minutes	
p.lab.kdd.co.jp/CTAN/systems/win32/miktex/tm/packages/symbols.cab (1200809 byt p.lab.kdd.co.jp/CTAN/systems/win32/miktex/tm/packages/miktex-mktex-bin.cab (193 p.lab.kdd.co.jp/CTAN/systems/win32/miktex/tm/packages/niceframe.cab (60016 byte p.lab.kdd.co.jp/CTAN/systems/win32/miktex/tm/packages/pxfonts.cab (1419574 byte	es] <u>^</u> 41 b IS]
	>
< Back Next >	Cancel

Click **Next >** when the download is complete.

9. You will see the final wizard page:



Click Finish to close the wizard.

6 Installing MiKT_EX

You install MiKT_FX with the help of MiKT_FX Setup Wizard:

- 1. Download the latest version of the wizard from the SourceForge.net download server⁶.
- 2. Login as Administrator, if you want to set up a shared MiKTEX system.
- 3. Make sure that no MiKTEX application is running.
- 4. Start the wizard (setup.exe). You will be presented with the welcome page:

⁶http://sourceforge.net/project/showfiles.php?group_id=10783



5. Click on the **Install** radio button:



6. Click on the package set you wish to install:

👅 MiKTeX Setup	Wizard 2.2.	.7	
Package Set Choose a pa	ckage set.		
<mark>∑</mark> small A sm fonts	Download size: Size on disk: all set of package	< 23 MB 100 MB jes: TeX, recommended LaTeX packages, pdfTeX, Typ	xe1
OLarge This	Download size: Size on disk: adds Omega, e-To	≝ 64 MB 100 MB TeX and advanced macropack ages like ConTeXt.	
⊙ [otal All av	Download size: Size on disk: vailable pack.ages	< 143 MB 500 MB s.	
		< Back Next > C	ancel

Click **Next >** to go to the next page.

7. Choose if you want to set up a shared MiKT_EX system or if you want to run MiKT_EX privately:

MiKTeX Setup Wizard 2.2.7	×
Shared vs. Private Installation You can grant other users access to the MiKTeX programs.	
Setup Wizard can install a shared MiKTeX environment, so that other users on this computer can access the MiKTeX programs.	
Install a shared MiKTeX environment.	
O Install a grivate MiKTeX environment.	
< <u>B</u> ack <u>N</u> ext > Cancel	

8. Specify the location of the local package repository:

MiKTeX Setup Wizard 2.2.7	×
Local Package Repository Select the local package repository.	100 M
MiKTeX Setup Wizard will use the following folder to install MiKTeX from.	
To select a different folder, click Browse.	
Path to local package repository:	
C:\Downloads\MiKTeX-2.2 Browse	
< Back Next > Cancel	ן

MiKT_EX will be installed from a local package repository, i.e., a directory on your computer which mirrors the contents (or parts of it) of a remote package repository. You have created the local package repository during the download stage. Click **Next** >to go to the next page.

9. Accept the suggested installation directory or enter your own choice:

MiKTeX Setup Wizard 2.2.7	
Installation Folder Choose a location for the installation folder.	C. The second
MiKTeX will be installed in the following folder. You can enter a new path. Path to installation folder:	
C:Viewni	
< Back Next > Ca	ncel

Click **Next >** to go to the next page.

10. Accept the suggested program folder name or enter your own choice:

Setup Wizard 2.2.7
Program Folder You can specify the name of the Program Folder.
MiKTeX Setup Wizard will add shortcuts to the program folder listed below. You may enter a new name.
Program folder name: MIKTEX
< <u>B</u> ack <u>N</u> ext> Cancel

11. Accept the suggested path to the local TEXMF directory or enter your own choice:

MiKTeX Setup Wizard 2.2.7	×
Local TEXMF Tree You can reserve a folder tree for local additions.	
You can cause MiKTeX to deposit newly created files (e.g. bitmap fonts) in a separate folder tree. This folder tree is called the Local TEXMF Tree. If you decide to create such a tree, then you must choose a location for its root folder. Organize local TEXMF tree (recommended): The following folder will be the root of the local TEXMF tree. You can enter a new path.	
Path to root folder: C:Vocaltexm/	
○ No local TEXMF tree (not recommended).	
< Back Next > Cance	

12. Choose if you want to incorporate additional TEXMF directories:

MiKTeX Setup Wizard 2.2.7	
Additional TEXMF Folder Trees You can incorporate existing TEXMF folder trees.	
You can incorporate existing TEXMF folder trees, i.e. you can make use of TeX relate packages that are already installed in you network neighbourhood. If you are unsure, use the default configuration. You can incorporate existing folder trees later via the MIKTeX Options shortcut. Opn't incorporate existing TEXMF folder trees now.	d
< <u>B</u> ack <u>N</u> ext > Ca	ancel

You can safely defer the decision. TEXMF directories can be configured later with the help of MiKT_EX Options. Click **Next >** to go to the next page.

13. Review the setup settings:

AiKTeX Setup Wizard 2.2.7	×
Setup Information Review the setup settings.	22-22.00
MiKTeX Setup Wizard has enough information to start the installation. If you want to review or change any of the settings, click Back. If you are satisfied with the settings, click Next to start the installation.	
Install small package set from C:\Downloads\MiKTeX-2.2	
Local TEXMF folder: C:\texmf	
TEXMF search path: C:\localtexmf;C:\texmf	
Program folder: MiKTeX	
< Back Next > Cancel)

 $\label{eq:click} {\sf Click} \ {\sf Back}, \ {\sf if} \ {\sf you} \ {\sf want} \ {\sf to} \ {\sf change} \ {\sf the} \ {\sf settings}. \ {\sf Click} \ {\sf Next} \ {\sf >} \ {\sf to} \ {\sf start} \ {\sf the} \ {\sf installation} \ {\sf process}.$

14. Two progress bars indicate the progress of the installation process:

MiKTeX Setup Wizard 2.2.7			X
MiKTeX Package Installation MiKTeX Setup Wizard will now install the s	elected MiKT	eX packages.	
Installing: adobestd	G	<u></u>	
Repository type: local Entering scratch folder Estimating expenditure installing: 6841 files (94 packages) Extracting files from adobestd.cab			<
	< <u>B</u> ack	Next >	Cancel

Click **Next >** when the installation is complete.

15. You will see the final wizard page:



Click **Finish** to close the wizard.

7 Troubleshooting the Setup Process

MiKT_EX Setup Wizard logs all actions into the DebugView window. You need to download and install DebugView, if you intend to troubleshoot setup related problems.

To download DebugView, visit the DebugView page⁷ and follow the download/installation instructions.

To create a trace, start DebugView prior to the setup wizard.

In addition, the wizard reports some actions into a log file. The name of the log file is setup*currentdate*.log. Search for this file in the config directory (usually C:\texmf\miktex\config\).

⁷http://www.sysinternals.com/ntw2k/freeware/debugview.shtml