G++ unter Windows

mit MinGW

Präsentation von Patrick Dammann für IPK SoSe'15 und IPI WiSe'15/16

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- Google: MinGW
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 - (MinGW | Minimalist GNU for Windows)
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- oder direkt unter:
 - o <u>http://sourceforge.net/projects/mingw/</u>

Download von MinGW

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Administrative Update	Welcome to MinGW.org Home of the MinGW and MSYS Projects	Search mingw users
As of June 2013 we are accepting donations. Please see the Donate page for more information on how to Donate.	MinGW, a contraction of "Minimalist GNU for Windows", is a minimalist development environment for native Microsoft Windows applications. MinGW provides a complete Open Source programming tool set which is suitable for the development of native MS-Windows applications, and which do not depend on any 3rd-party C-Runtime DLLs. (It does depend on a number of DLLs provided by Microsoft themselves, as components of the operating system; most notable among these is MSVCRT.DLL, the Microsoft C runtime library. Additionally, threaded applications must ship with a freely distributable theread supervised as part of MinGW itself.	Choose Mail List: MinGW-users Search Recent File Releases
User login Login/Register	MinGW compilers provide access to the functionality of the Microsoft C runtime and some language-specific runtimes. MinGW, being Minimalist, does not, and never will, attempt to provide a POSIX runtime environment for POSIX application deployment on MS-Windows. If you want POSIX application deployment on this platform, please consider Cygwin instead.	 /MSYS/Base/bash/bash- 3.1.23-1/bash-3.1.23-1- msys-1.0.18.README.txt /Installer/mingw-
Navigation	Primarily intended for use by developers working on the native MS-Windows platform, but also available for cross-hosted use, (see note below you may need to follow the "read more" link to see it), MinGW includes:	get/catalogue/msys- bash.xml.lzma > /MSYS/Base/bash/bash- 3 1 23 1/bash-3 1 23 1
 Contact Donate History Licensing Terms Mailing Lists 	 GNU Binutils for Windows (assembler, linker, archive manager) A command-line installer, with optional GUI front-end, (mingw-get) for MinGW and MSYS deployment on MS-Windows A GUI first-time setup tool (mingw-get-setup), to get you up and running with mingw-get. MSYS, a contraction of "Minimal SYStem", is a Bourne Shell command line interpreter system. Offered as an alternative to Microsoft's cmd.exe, this 	 S11.23-1/bash-3.1231- msys-1.0.18-bin.tar.xz /MSYS/Base/bash/bash- 3.1.23-1/bash-3.1.23-1- msys-1.0.18-doc.tar.xz
 Privacy Reporting Bugs Submit Patches Sitemap 	provides a general purpose command line environment, which is particularly suited to use with MinGW , for porting of many Open Source applications to the MS-Windows platform; a light-weight fork of Cygwin-1.3, it includes a small selection of Unix tools, chosen to facilitate that objective. Read more 522336 reads	 /MSYS/Base/Dash/Dash- 3.1.23-1/bash-3.1.23-1- msys-1.0.18-lic.tar.xz /MSYS/Base/bash/bash- 3.1.23-1/bash-3.1.23-1-

Installation MinGW

Intuitiv bis zum Ende "durchklicken".

3		М	inGW Installation I	Manager	- 🗆 🗙
Installation Package Settings					Help
Basic Setup	Package	Class	Installed Version	Repository Version	Description
All Packages	mingw-developer-tool	bin		2013072300	An MSYS Installation for MinGW Developers (meta)
	S mingw32-base	bin		2013072200	A Basic MinGW Installation
	mingw32-gcc-ada	bin		4.8.1-4	The GNU Ada Compiler
	mingw32-gcc-fortran	bin		4.8.1-4	The GNU FORTRAN Compiler
	mingw32-gcc-g++	bin		4.8.1-4	The GNU C++ Compiler
	mingw32-gcc-objc	bin		4.8.1-4	The GNU Objective-C Compiler
	🐑 msys-base	bin		2013072300	A Basic MSYS Installation (meta)
	<				>
	a I Description a	6.0 1 6.000			
	A Basic MSYS Installation This meta package contains core system, bash, various additions and deletions, the	n (meta s the cor s comma set of to) nponents necessary and line utilities, and ols originally installed	to create a basic, sma d archiving/compression d by the old MSYS mor	all, but relatively useful MSYS installation. It includes the on tools. It attempts to replicate, with certain judicious iolithic installers.

PATH-Variable anpassen

- Rechtsklick auf Computer
- Eigenschaften
- Links: Erweiterte Systemeinstellungen
- Reiter: Erweitert
- Unten: Umgebungsvariablen
- Unteres Feld: "Path" suchen
- Bearbeiten

Das hier gilt für **Win 7**, **Win 8** und **Win 8.1**.

Für alles andere einfach mal nach "path variable ändern Win XP/Win Vista/Win 10/Win 95SE" googlen.

- ";C:\MinGW\lib;C:\MinGW\bin;" ANHÄNGEN
 (!)
 - NICHT ersetzen



Notepad++

- Download unter http://notepad-plus-plus.org/
 - (kann man natürlich auch googlen)
- Installation sollte intuitiv sein
- Dazu das Plug-In "nppexec"
 - Download unter: <u>http://goo.gl/pmFcCZ</u>
- Installation von nppExec
 - zip-File entpacken
 - o dll in C:\Programme\Notepad++\Plugins kopieren

NppExec konfigurieren

- Via "Erweiterungen->NppExec->Execute"
- 2 Scripte anlegen
- Ein Kompilier-Script:
 - NPP_SAVE
 - CD "\$ (CURRENT_DIRECTORY) "
 - g++.exe -std=c++11 \$(FILE_NAME)"
 - -o "\$ (NAME PART) .exe"
- Ein Ausführ-Script:
 - CD "\$(CURRENT_DIRECTORY)" "\$(NAME_PART).exe"

NppExec konfigurieren



Erweiterungen-> NppExec-> Advanced Options

enu items *	Advanced options				
Place to the Macros submenu	Execute this script when Notepad++ starts:				
i++ Compile :: G++ Compile			~		
	Execute this script when Notepad++ exits:				
	¥				
	[Options]				
	HotKey	F6	¥		
	ToolbarBtn	Console	~		
	[Console]				
Move up Move down	Visible (on start)	Auto	~		
* Assign shortcut keys using Settings: Shortcut Mapper -> Plugin commands	ShowHelp (on start)	No	~		
	SaveCmdHistory	Yes	~		
enu item	CommentDelimiter	11			
i++Exec	TextColorNormal (RR GG BB)	FF FF FF			
ssociated script:	TextColorError (RR GG BB)	A0 10 10			
i++ EXEC 🗸 🗸	TextColorMessage (RR GG BB)	11 F5 3F			
Add/Modify Delete	BackgroundColor (RR GG BB)	00 00 00			

Shortcuts

Über *Einstellungen -> Tastatur -> Plug-In Commands* lassen sich jetzt Shortcuts anlegen (z.B. Shift+F7 zum kompilieren und Shift+F8 zum Ausführen)

