

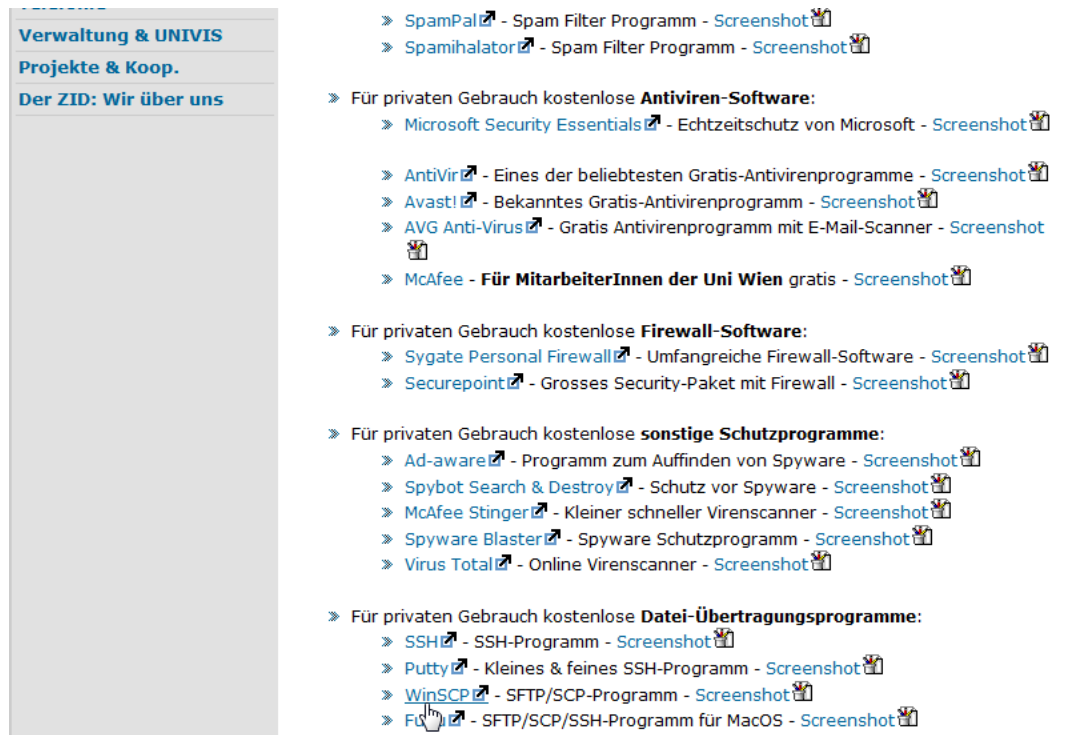
Get Started @ Home

Für Windows-User

WS 2011/12

Get Started – Schritt 1: Install WinSCP

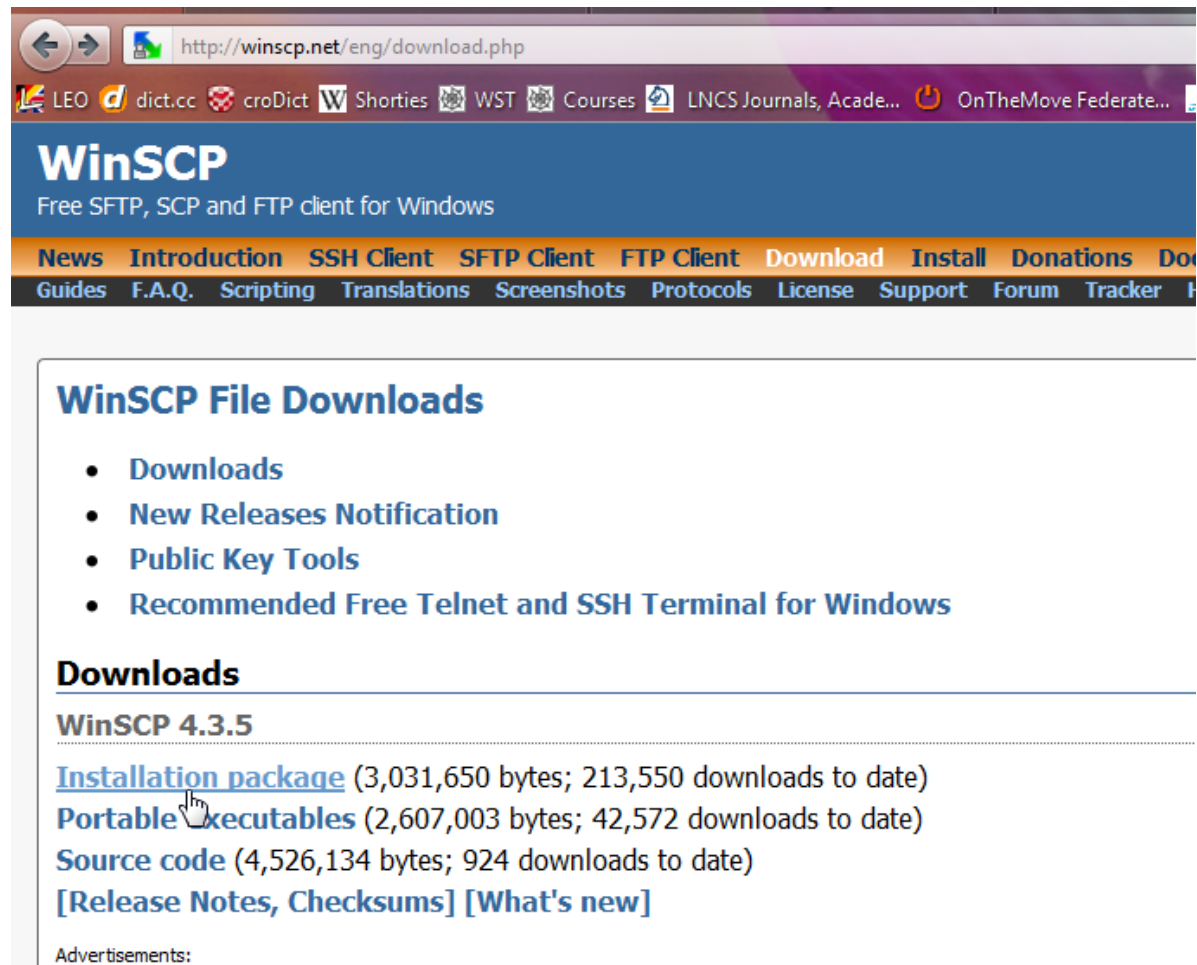
- <http://www.univie.ac.at/ZID/gratissoftware/>



The screenshot shows the ZID website interface. On the left is a navigation menu with the following items: "Verwaltung & UNIVIS", "Projekte & Koop.", and "Der ZID: Wir über uns". The main content area on the right lists various free software options for private use, categorized into three groups:

- Für privaten Gebrauch kostenlose Antiviren-Software:**
 - » [SpamPal](#) - Spam Filter Programm - [Screenshot](#)
 - » [Spamihulator](#) - Spam Filter Programm - [Screenshot](#)
 - » [Microsoft Security Essentials](#) - Echtzeitschutz von Microsoft - [Screenshot](#)
 - » [AntiVir](#) - Eines der beliebtesten Gratis-Antivirenprogramme - [Screenshot](#)
 - » [Avast!](#) - Bekanntes Gratis-Antivirenprogramm - [Screenshot](#)
 - » [AVG Anti-Virus](#) - Gratis Antivirenprogramm mit E-Mail-Scanner - [Screenshot](#)
 - » [McAfee](#) - Für MitarbeiterInnen der Uni Wien gratis - [Screenshot](#)
- Für privaten Gebrauch kostenlose Firewall-Software:**
 - » [Sygate Personal Firewall](#) - Umfangreiche Firewall-Software - [Screenshot](#)
 - » [Securepoint](#) - Grosses Security-Paket mit Firewall - [Screenshot](#)
- Für privaten Gebrauch kostenlose sonstige Schutzprogramme:**
 - » [Ad-aware](#) - Programm zum Auffinden von Spyware - [Screenshot](#)
 - » [Spybot Search & Destroy](#) - Schutz vor Spyware - [Screenshot](#)
 - » [McAfee Stinger](#) - Kleiner schneller Virenschanner - [Screenshot](#)
 - » [Spyware Blaster](#) - Spyware Schutzprogramm - [Screenshot](#)
 - » [Virus Total](#) - Online Virenschanner - [Screenshot](#)
- Für privaten Gebrauch kostenlose Datei-Übertragungsprogramme:**
 - » [SSH](#) - SSH-Programm - [Screenshot](#)
 - » [Putty](#) - Kleines & feines SSH-Programm - [Screenshot](#)
 - » [WinSCP](#) - SFTP/SCP-Programm - [Screenshot](#)
 - » [FileZilla](#) - SFTP/SCP/SSH-Programm für MacOS - [Screenshot](#)

Get Started – Schritt 1: Install WinSCP



The screenshot shows a web browser window with the address bar displaying <http://winscp.net/eng/download.php>. The browser's toolbar includes various icons and a search bar. The website's header features the WinSCP logo and the tagline "Free SFTP, SCP and FTP client for Windows". A navigation menu is located below the header, with links for News, Introduction, SSH Client, SFTP Client, FTP Client, Download, Install, Donations, and Guides. The main content area is titled "WinSCP File Downloads" and contains a list of links: Downloads, New Releases Notification, Public Key Tools, and Recommended Free Telnet and SSH Terminal for Windows. Below this list, the "Downloads" section is highlighted, showing the current version "WinSCP 4.3.5". Under this version, there are three links: "Installation package" (3,031,650 bytes; 213,550 downloads to date), "Portable executables" (2,607,003 bytes; 42,572 downloads to date), and "Source code" (4,526,134 bytes; 924 downloads to date). There are also links for "[Release Notes, Checksums]" and "[What's new]". At the bottom of the page, there is a section for "Advertisements:".

http://winscp.net/eng/download.php

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WinSCP

Free SFTP, SCP and FTP client for Windows

News Introduction SSH Client SFTP Client FTP Client **Download** Install Donations Do
Guides F.A.Q. Scripting Translations Screenshots Protocols License Support Forum Tracker H

WinSCP File Downloads

- Downloads
- New Releases Notification
- Public Key Tools
- Recommended Free Telnet and SSH Terminal for Windows

Downloads

WinSCP 4.3.5

[Installation package](#) (3,031,650 bytes; 213,550 downloads to date)

[Portable executables](#) (2,607,003 bytes; 42,572 downloads to date)

[Source code](#) (4,526,134 bytes; 924 downloads to date)

[\[Release Notes, Checksums\]](#) [\[What's new\]](#)

Advertisements:

Get Started – Schritt 1: Install WinSCP

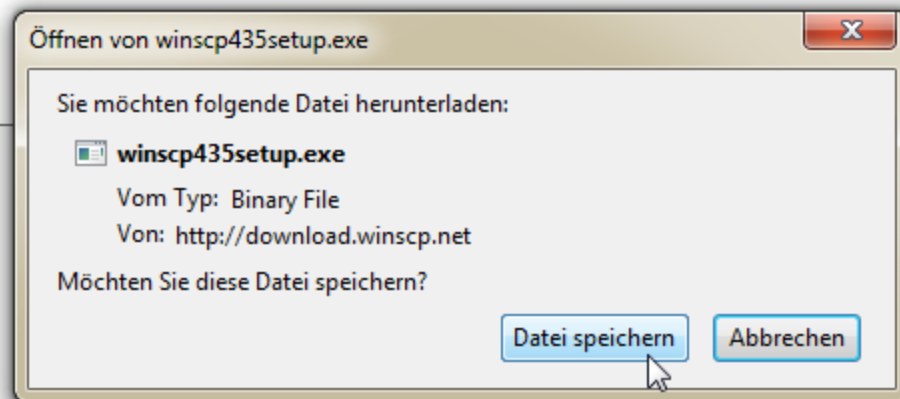
Thank you for downloading from WinSCP.net!

Your download of **winscp435setup.exe** will start shortly...

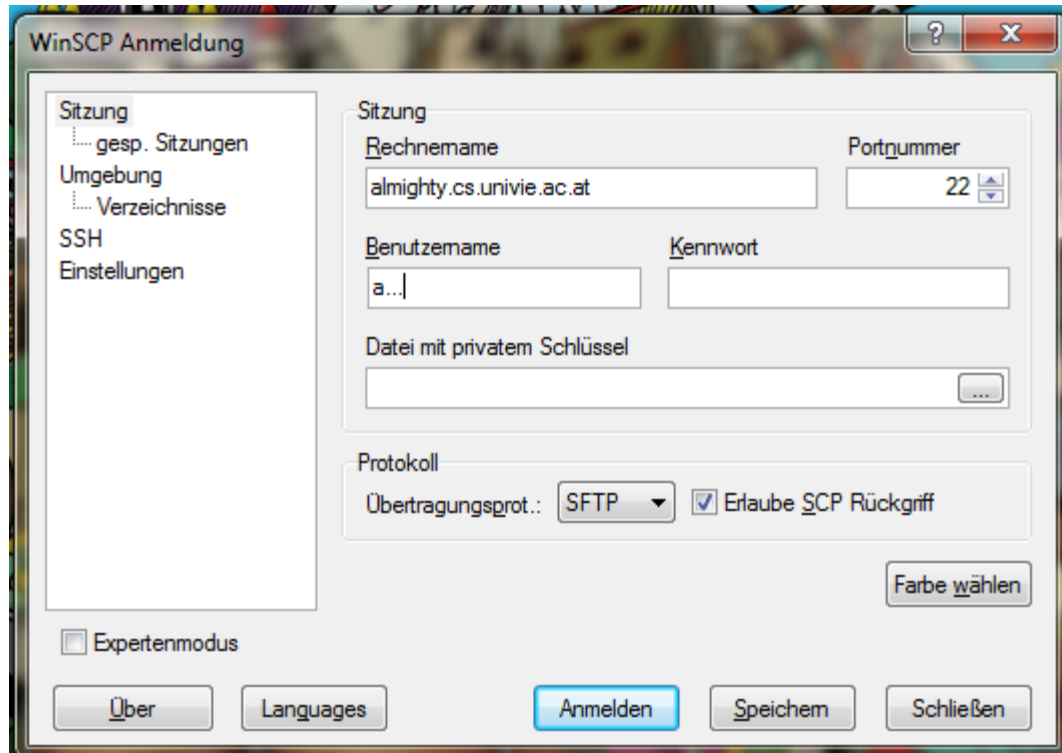
Problems with the download? Please use this [link](#) or another [location](#).

Advertisements:

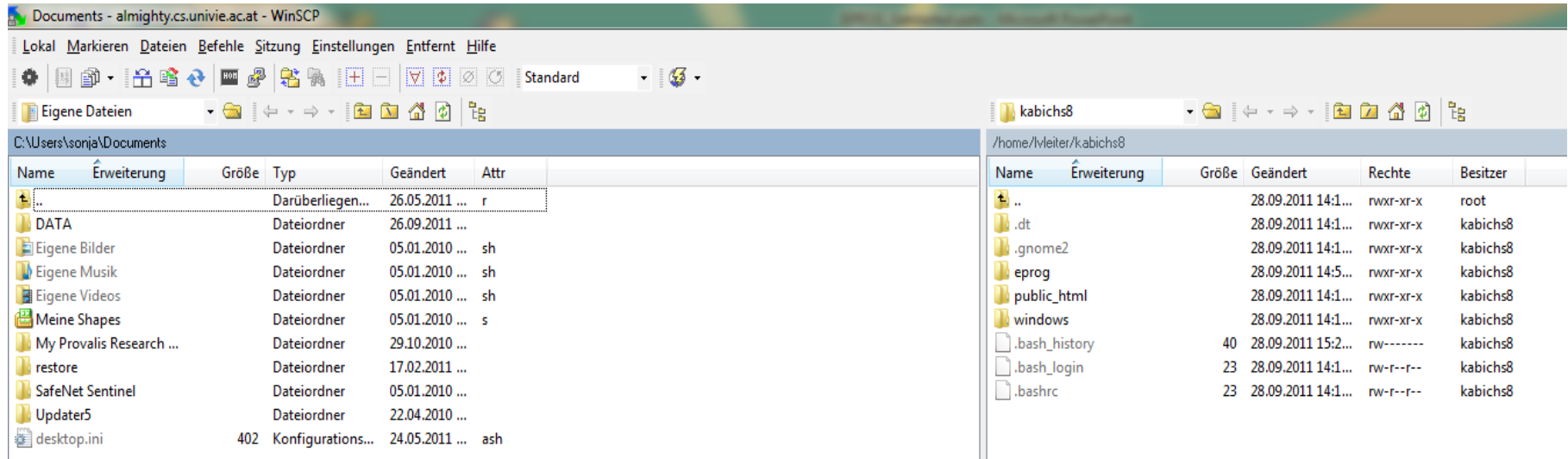
Advertisements:



Get Started – Schritt 1: Install WinSCP



Get Started – Schritt 1: Install WinSCP



HOME



ALMIGHTY

Get Started –

Schritt 2: Install Entwicklungsumgebung

- <http://cewebs.cs.univie.ac.at/courses/PRG/ws11/index.php?t=unterlagen>

Entwicklungsumgebungen für zu Hause 📌

GNU C++ Compiler 📌

In der Lehrveranstaltung wird der «GNU» C++ Compiler in der Version 4.1.1 verwendet. Dieser Compiler ist für fast alle Plattformen bzw. Betriebssysteme verfü

Die Homepage des GNU C++ Compilers ist zu finden unter: «<http://gcc.gnu.org/>»

Auf dieser Homepage findet man auch viele Informationen rund um den Compiler. Unter dem Link Binaries kommt man zu dem downloadbaren Compiler-Program

Bloodshed Dev-C++ 📌

Für FreundInnen der integrierten Entwicklungsumgebung. Es wird eine ältere Version des GCC verwendet, das ist aber für die Lehrveranstaltung nicht problem:

O-Ton: «Bloodshed Dev-C++» is a full-featured Integrated Development Environment (IDE) for the C/C++ programming language. It uses Mingw port of GCC (GI executables, either console or GUI. Dev-C++ can also be used in combination with Cygwin.

Dev-C++ is Free Software (also referred as Open Source) and you can download it form «sourceforge.net».

Borland C++ Compiler 5.5 📌

«<http://cc.codegear.com/Free.aspx?id=24778>» Download des Borland C++ Compiler 5.5 (Free Command-line Compiler)

Weitere Details zur Konfiguration des Compilers finden Sie im "C:\Borland\BCC55\readme.txt" nach der Installation. Es müssen zwei Konfigurations-Dateien im C:\Bc um dieses Verzeichnis erweitert werden.

Eclipse CDT Plugin 📌

«<http://www.eclipse.org/cdt/>» Eclipse CDT Plugin (for C++ Use)

Visual Studio 📌

«<http://www.microsoft.com/germany/express/product/visualcplusplusexpress.aspx>»

Zu Microsoft-Software siehe auch die MSDN-Academic-Alliance der Fakultät für Informatik «<http://informatik.univie.ac.at/studierende/infosammlung/software/>»

MinGW 📌

«<http://www.mingw.org/>» (Installation Suite with GCC Compiler)

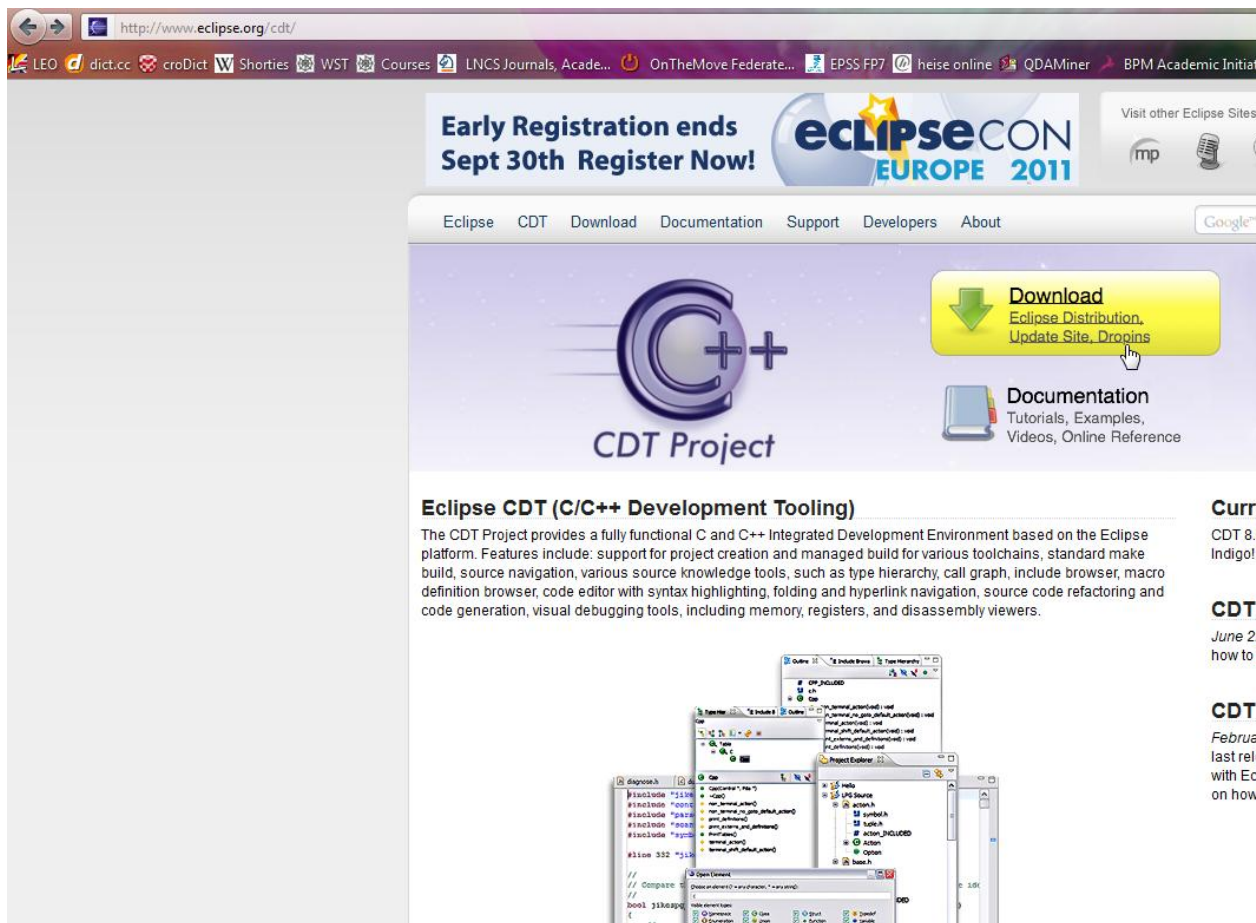
NetBeans IDE 📌

«<http://www.netbeans.org/features/cpp/index.html>»

Get Started –

Schritt 2: Install Entwicklungsumgebung

- Z.B. Eclipse



Get Started –

Schritt 2: Install Entwicklungsumgebung

CDT >>

Download

Documentation

Support

Getting Involved

CDT Downloads

All downloads are provided under the terms and conditions of the [Eclipse Foundation Software User Agreement](#) unless otherwise specified.

The CDT can either be installed as part of the Eclipse C/C++ IDE packaged zip file or installed into an existing Eclipse using the "Install New Software..." dialog and entering the p2 repository URLs listed below.

CDT 8.0.1 for Eclipse Indigo

Eclipse package: [Eclipse C/C++ IDE Indigo SR-1](#).

p2 software repository: <http://download.eclipse.org/tools/cdt/releases/indigo>.

Archived p2 repos:

- [cdt-master-8.0.1.zip](#)
- [cdt-master-8.0.0.zip](#)

Source links:

- CDT main git commit: [88411c52f862f7e919ada110983ad07c3724de0f](#)
- TCF svn revision: [2113](#)
- EDC git commit: [2e76747f2747144a7dcd7d4ac90d51f220560735](#)
- CDT master git commit: [22891ae22e8be61489bee52b848152da72e7fd45](#)

CDT 7.0.2 for Eclipse Helios

Eclipse package: [Eclipse C/C++ IDE Helios SR2](#).

p2 software repository: <http://download.eclipse.org/tools/cdt/releases/helios>.

Archived p2 repos:

← → W

http://de.wikipedia.org/wiki/Eclipse_(IDE)

LEO dict.cc croDict Shorties WST Courses LNCS Journa

Bahasa Indonesia

Italiano

日本語

한국어

Lietuvių

Latviešu

Nederlands

Norsk (nynorsk)

Norsk (bokmål)

Polski

Português

Română

Русский

Slovenčina

Svenska

Türkçe

Українська

Tiếng Việt

中文

Versionskonflikte zu vermeiden und Eclipse-Anw

Die Version 3.6 (Projektname *Eclipse Helios*) wu

Am 22. Juni 2011 wurde die Version 3.7 (Projektr

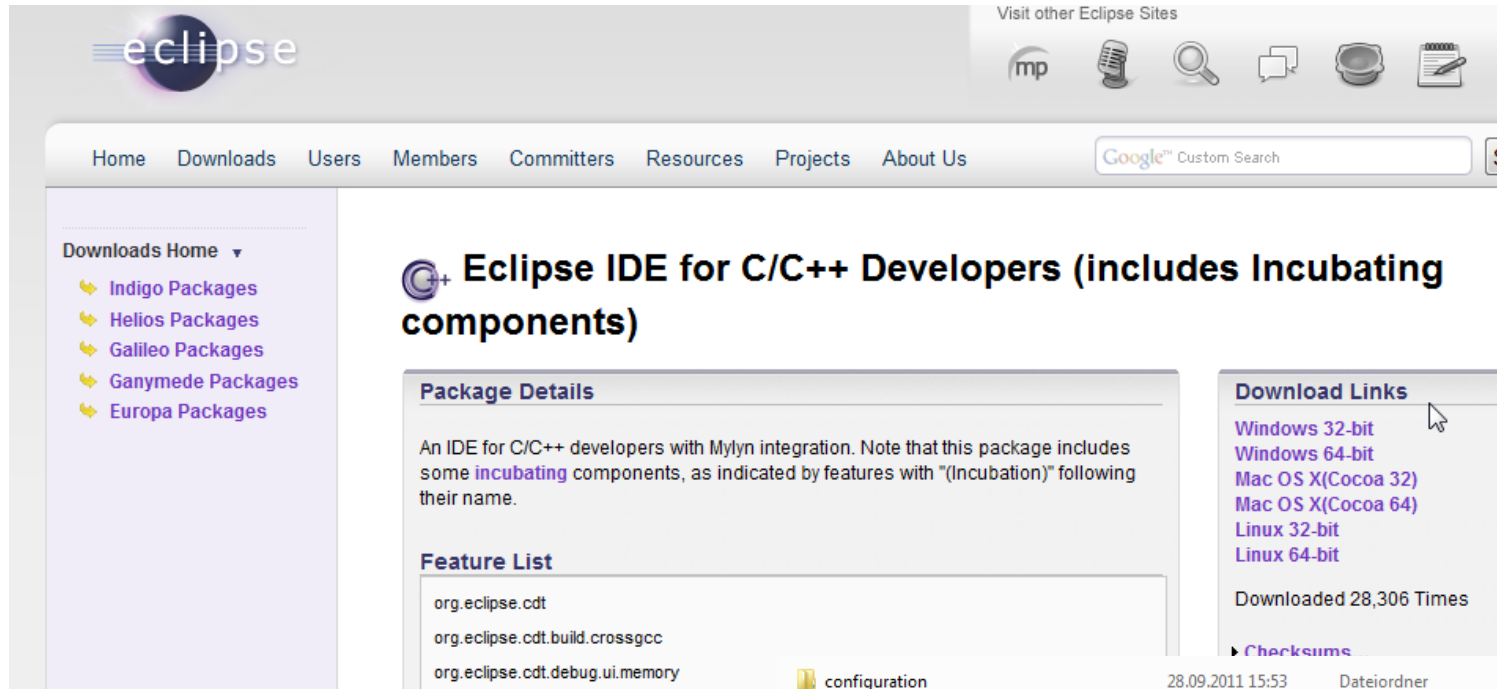
Legende:

Ältere Version; nicht mehr unters

Projektname	Version	Veröffentlichung
	3.0	28. Juni 2004
	3.1	28. Juni 2005
Callisto	3.2	30. Juni 2006 ^[2]
Europa	3.3	30. Juni 2007 ^[3]
Ganymede	3.4	25. Juni 2008 ^[4]
Galileo	3.5	24. Juni 2009 ^[5]
Helios	3.6	23. Juni 2010 ^[6]
Indigo	3.7	22. Juni 2011 ^[7]

Get Started –

Schritt 2: Install Entwicklungsumgebung



The screenshot shows the Eclipse IDE website. The main heading is "Eclipse IDE for C/C++ Developers (includes Incubating components)". Below this, there are sections for "Package Details" and "Download Links". The "Download Links" section lists various operating systems and architectures, including Windows 32-bit, Windows 64-bit, Mac OS X (Cocoa 32), Mac OS X (Cocoa 64), Linux 32-bit, and Linux 64-bit. A "Checksums" link is also visible.

Package Details

An IDE for C/C++ developers with Mylyn integration. Note that this package includes some **incubating** components, as indicated by features with "(Incubation)" following their name.

Feature List

- org.eclipse.cdt
- org.eclipse.cdt.build.crossgcc
- org.eclipse.cdt.debug.ui.memory

Download Links

- Windows 32-bit
- Windows 64-bit
- Mac OS X(Cocoa 32)
- Mac OS X(Cocoa 64)
- Linux 32-bit
- Linux 64-bit

Downloaded 28,306 Times

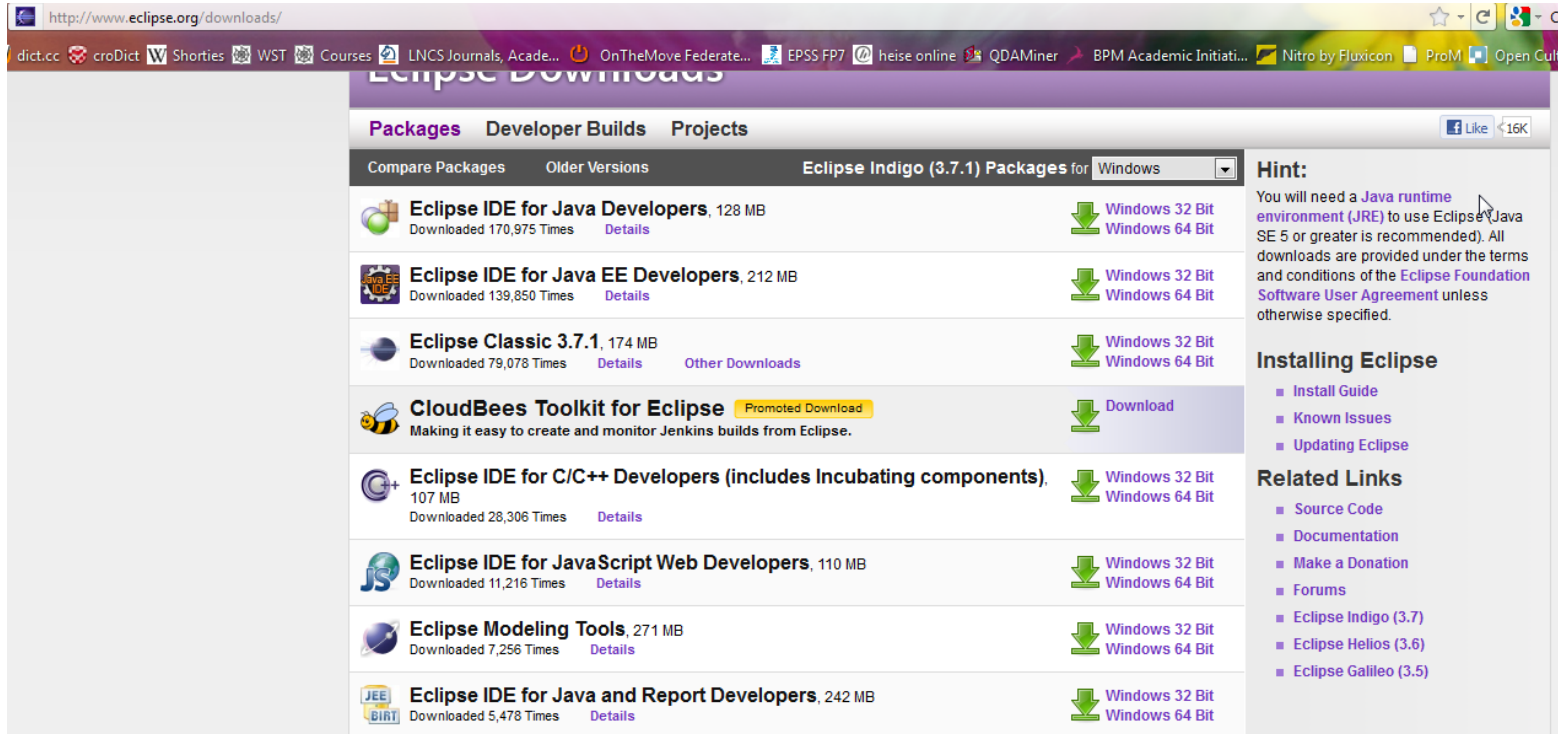
► **Checksums**

→ Datei Speichern → Extrahieren

configuration	28.09.2011 15:53	Dateiordner	
dropins	15.09.2011 21:54	Dateiordner	
features	28.09.2011 15:51	Dateiordner	
p2	28.09.2011 15:51	Dateiordner	
plugins	28.09.2011 15:53	Dateiordner	
readme	28.09.2011 15:51	Dateiordner	
.eclipseproduct	29.07.2010 10:36	ECLIPSEPRODUCT...	1 KB
artifacts.xml	15.09.2011 21:54	XML-Dokument	87 KB
eclipse.exe	21.03.2011 15:05	Anwendung	43 KB
eclipse.ini	15.09.2011 21:54	Konfigurationsein...	1 KB
eclipsesec.exe	21.03.2011 15:05	Anwendung	18 KB
epl-v10.html	25.02.2005 17:53	Firefox Document	17 KB
notice.html	04.02.2011 14:39	Firefox Document	9 KB

Get Started –

Schritt 2: Install Entwicklungsumgebung



The screenshot shows the Eclipse Downloads page for Windows. The page lists several Eclipse IDE packages, each with a download icon, size, and download count. The packages are:

- Eclipse IDE for Java Developers**, 128 MB, Downloaded 170,975 Times
- Eclipse IDE for Java EE Developers**, 212 MB, Downloaded 139,850 Times
- Eclipse Classic 3.7.1**, 174 MB, Downloaded 79,078 Times
- CloudBees Toolkit for Eclipse**, 107 MB, Downloaded 28,306 Times
- Eclipse IDE for C/C++ Developers (includes Incubating components)**, 110 MB, Downloaded 11,216 Times
- Eclipse IDE for JavaScript Web Developers**, 110 MB, Downloaded 11,216 Times
- Eclipse Modeling Tools**, 271 MB, Downloaded 7,256 Times
- Eclipse IDE for Java and Report Developers**, 242 MB, Downloaded 5,478 Times

Each package has a download icon and a link to the download page. The page also includes a hint about the Java runtime environment (JRE) and a list of related links.

Hint: You will need a [Java runtime environment \(JRE\)](#) to use Eclipse. Java SE 5 or greater is recommended. All downloads are provided under the terms and conditions of the [Eclipse Foundation Software User Agreement](#) unless otherwise specified.

Installing Eclipse

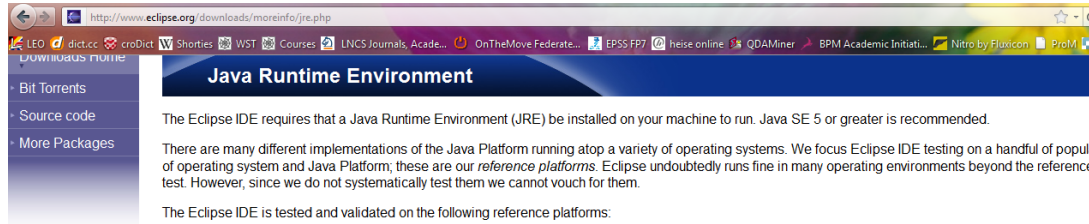
- [Install Guide](#)
- [Known Issues](#)
- [Updating Eclipse](#)

Related Links

- [Source Code](#)
- [Documentation](#)
- [Make a Donation](#)
- [Forums](#)
- [Eclipse Indigo \(3.7\)](#)
- [Eclipse Helios \(3.6\)](#)
- [Eclipse Galileo \(3.5\)](#)

Get Started –

Schritt 2: Install Entwicklungsumgebung



Java Runtime Environment

The Eclipse IDE requires that a Java Runtime Environment (JRE) be installed on your machine to run. Java SE 5 or greater is recommended.

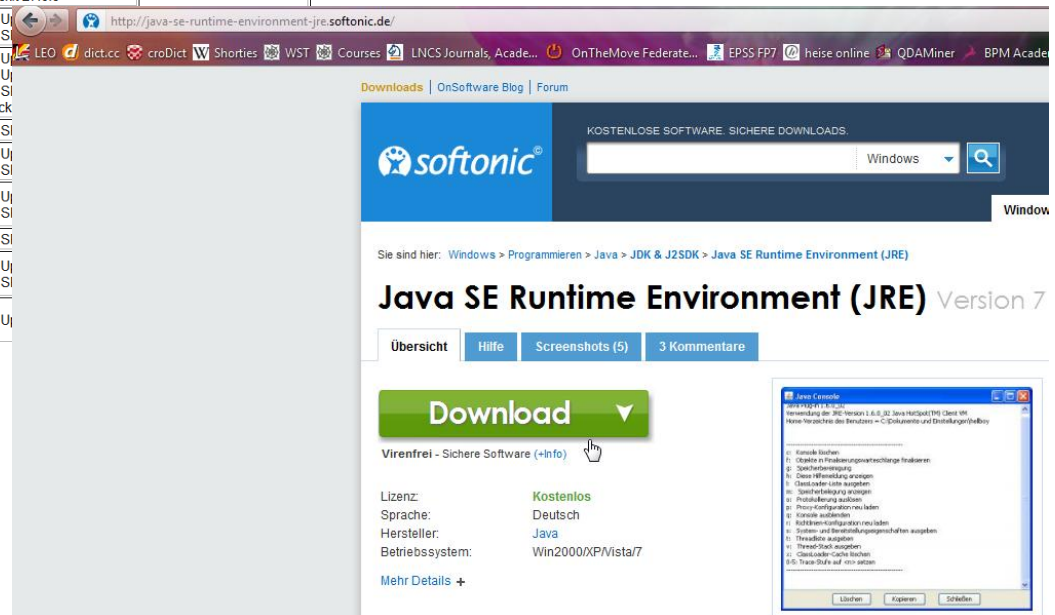
There are many different implementations of the Java Platform running atop a variety of operating systems. We focus Eclipse IDE testing on a handful of popular operating system and Java Platform; these are our *reference platforms*. Eclipse undoubtedly runs fine in many operating environments beyond the reference test. However, since we do not systematically test them we cannot vouch for them.

The Eclipse IDE is tested and validated on the following reference platforms:

Operating System	Version	Hardware	JRE	Windowing System
Windows	7	x86 32-bit	Sun Java 5 Update 22	Win32
		x86 64-bit	IBM Java 5 SR11	
	Vista	x86 32-bit	Sun Java 5 Update 22	
		x86 64-bit	IBM Java 5 SR11	
	XP	x86 32-bit	Sun Java 5 Update 22	
		x86 64-bit	IBM Java 5 SR11	
Red Hat Enterprise Linux	5.0	x86 32-bit	Sun Java 6 Update 17	
		x86 64-bit	Sun Java 5 Update 22	
	4.0	x86 32-bit	IBM Java 5 SR11	
		Power 64-bit	Oracle JRockit 27.6.5	
SUSE Linux Enterprise Server	11	x86 32-bit	Sun Java 6 Update 17	
		x86 64-bit	Sun Java 5 Update 22	
		Power 64-bit	IBM Java 5 SR11	
Ubuntu Long Term Support	10.04	x86 32-bit	Sun Java 6 Update 17	
		x86 64-bit	Sun Java 5 Update 22	
Sun Solaris	10	x86 32-bit	Sun Java 6 Update 17	
		SPARC 32-bit	Sun Java 5 Update 22	

64-bit Eclipse: use 64-bit JDK.
32-bit Eclipse: use 32-bit JDK.

→ Datei speichern → Ausführen



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KOSTENLOSE SOFTWARE. SICHERE DOWNLOADS.

Download ▼

Virenfrei - Sichere Software (+Info)

Lizenz: **Kostenlos**
Sprache: **Deutsch**
Hersteller: **Java**
Betriebssystem: **Win2000/XP/Vista/7**

Mehr Details +

Sie sind hier: Windows > Programmieren > Java > JDK & J2SDK > Java SE Runtime Environment (JRE)

Java SE Runtime Environment (JRE) Version 7

Übersicht | Hilfe | Screenshots (5) | 3 Kommentare

Java Console
Klicken Sie auf OK, um die Installation zu beenden.
Verwendung der JRE Version 7.0.520 Java HotSpot(TM) Client VM
Wenn Sie das Betriebssystem ändern, müssen Sie die Einstellungen neu konfigurieren.

- 1) Kontrolle durchführen
- 2) Objekt in Programmiersprache laden
- 3) Speicherfreigabe
- 4) Datei- und Verzeichnisnamen
- 5) Klassenloader nicht ausgeben
- 6) Thread- und Klassenloader nicht ausgeben
- 7) Kontrolle durchführen
- 8) Klassenloader nicht ausgeben
- 9) System- und Benutzereinstellungen nicht ausgeben
- 10) Thread- und Klassenloader nicht ausgeben
- 11) Thread- und Klassenloader nicht ausgeben
- 12) Thread- und Klassenloader nicht ausgeben
- 13) Thread- und Klassenloader nicht ausgeben
- 14) Thread- und Klassenloader nicht ausgeben
- 15) Thread- und Klassenloader nicht ausgeben
- 16) Thread- und Klassenloader nicht ausgeben
- 17) Thread- und Klassenloader nicht ausgeben
- 18) Thread- und Klassenloader nicht ausgeben
- 19) Thread- und Klassenloader nicht ausgeben
- 20) Thread- und Klassenloader nicht ausgeben

Übernehmen | Kopieren | Schreiben

Get Started –

Schritt 2: Install Entwicklungsumgebung

- Install MinGW <http://www.mingw.org/>
 - Checkbox
 - C++ anklicken
 - msys anklicken
- Kontrolle Umgebungsvariablen: Start → Computer → Systemeigenschaften → Erweiterte Systemeigenschaften → Umgebungsvariablen...
 - **Entweder für alle User:** Systemvariablen, Path: Wenn nicht schon enthalten muss folgendes an die bestehende Eintragung ergänzt werden (nicht ersetzen!): z.B. durch (bzw. Mit dem entsprechenden Path – dort wo Sie es gespeichert haben, Java: z.B. jre6 oder jre7)

`;C:\msys\1.0\bin;C:\mingw\bin;C:\Programme\Java\jre6\bin`

Achtung: keine Leerzeichen!
 - **Oder** Ergänzung des Paths bei den **Benutzervariablen**
- Start eclipse.exe

Weiter Hilfe

Weitere Anleitungen bei Installation oder bei Fehlermeldungen

http://wiki.eclipse.org/CDT/User/FAQ#Are_there_complete_HowTos_for_setting_up_the_CDT.3F

oder Google fragen...

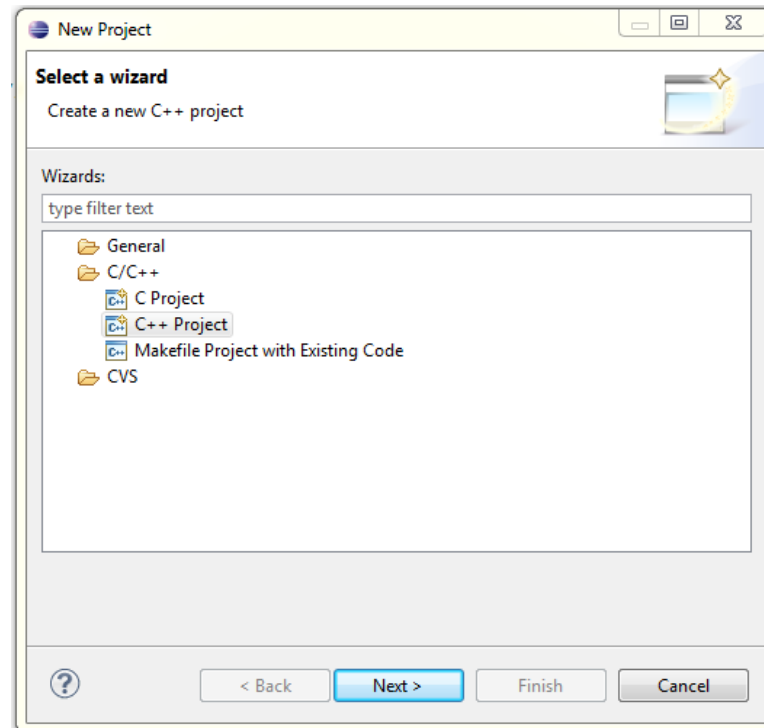
Get Started @ Home

Hello World

WS 2011/12

Hello World

- Start eclipse.exe
- File → New → Project...



C++ Project

Create C++ project of selected type

Project name:

☒ Use default location

Location:

Choose file system:

Project type:

- Executable
 - Empty Project
 - Cross-Compile Project
 - Hello World C++ Project**
- Shared Library
- Static Library
- Makefile project
- GNU Autotools

Toolchains:

- Microsoft Visual C++
- MinGW GCC**

☒ Show project types and toolchains only if they are supported on the platform

C++ Project

Basic Settings


Basic properties of a project

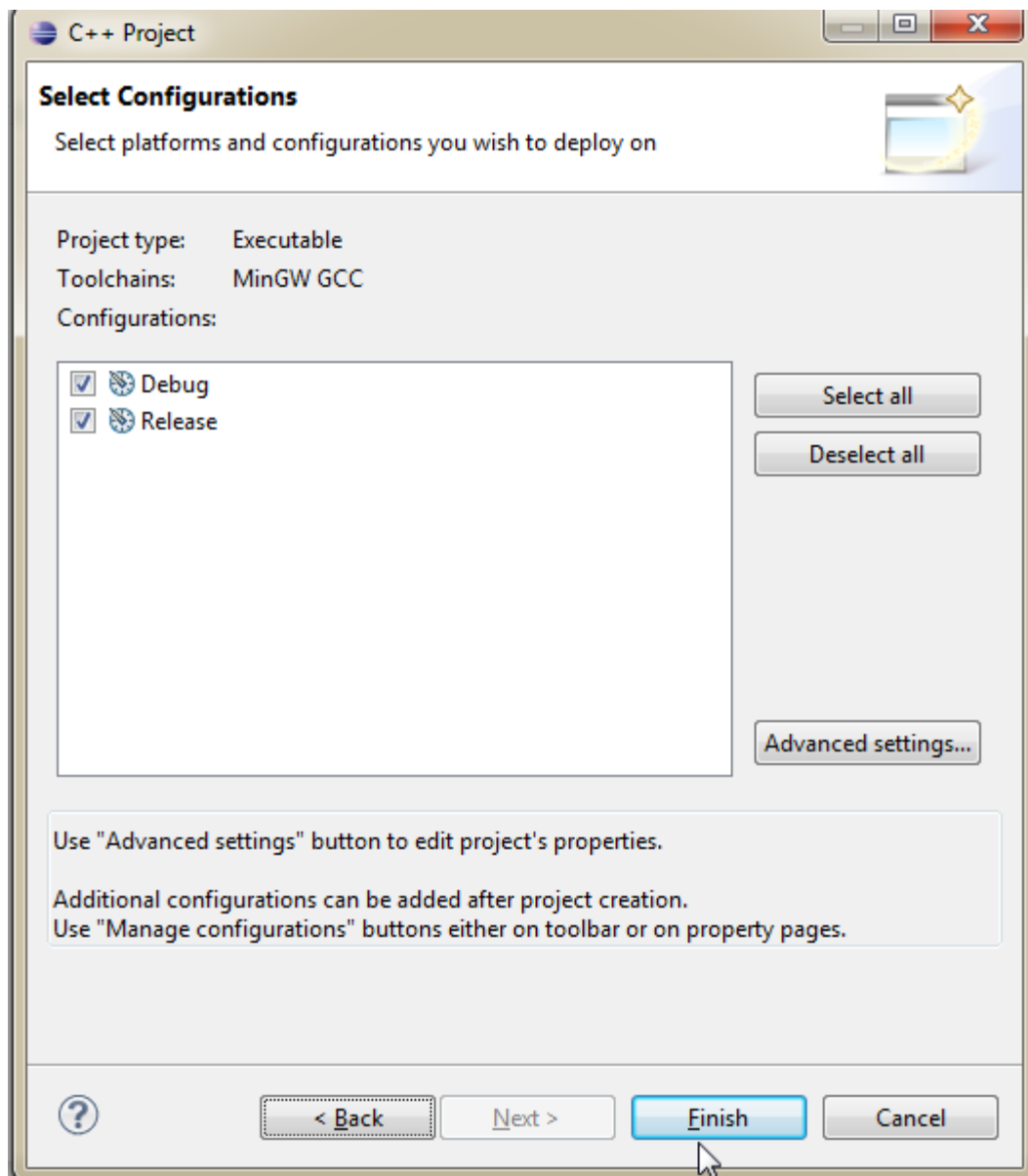
Author

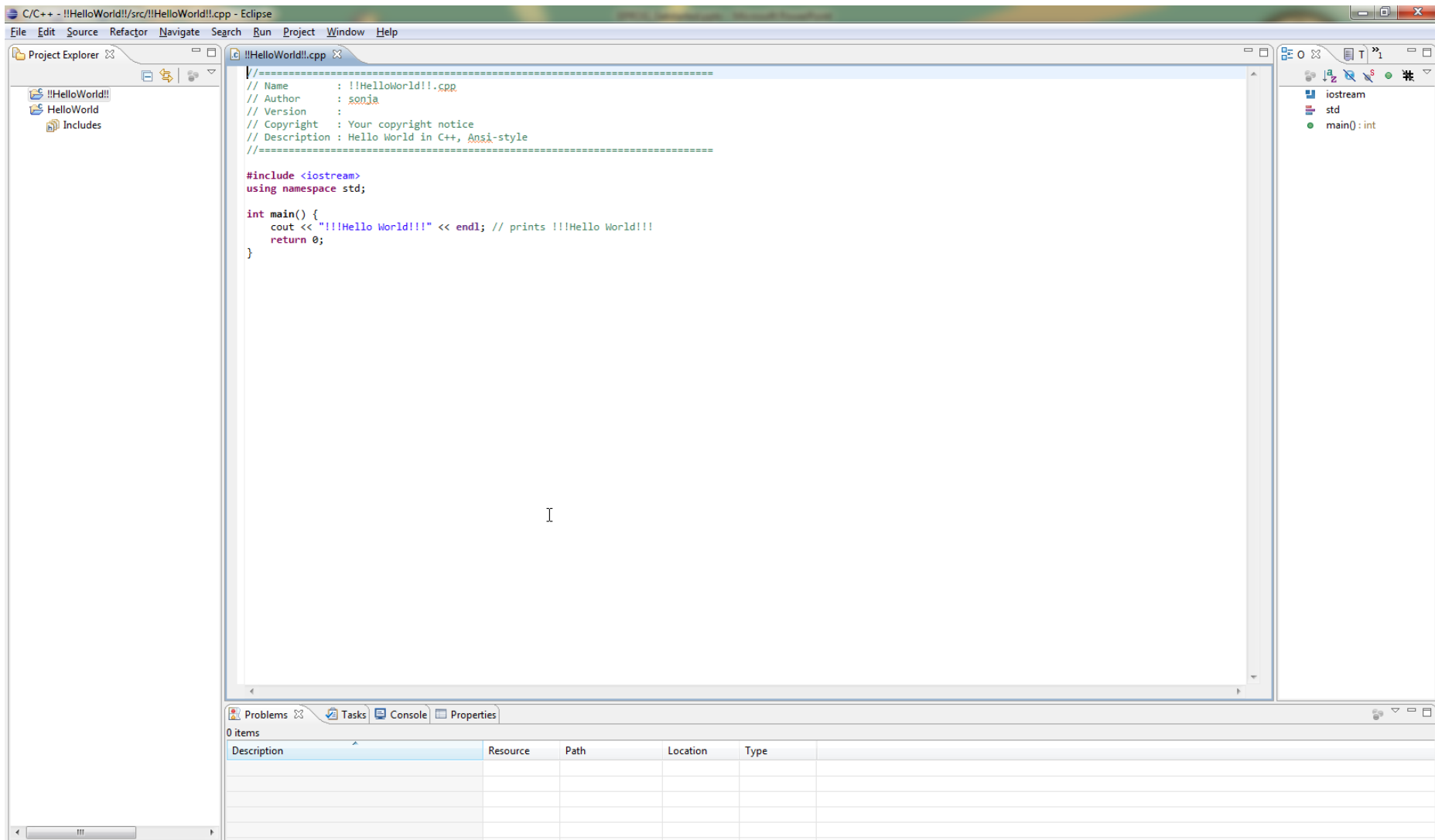
Copyright notice

Hello world greeting

Source

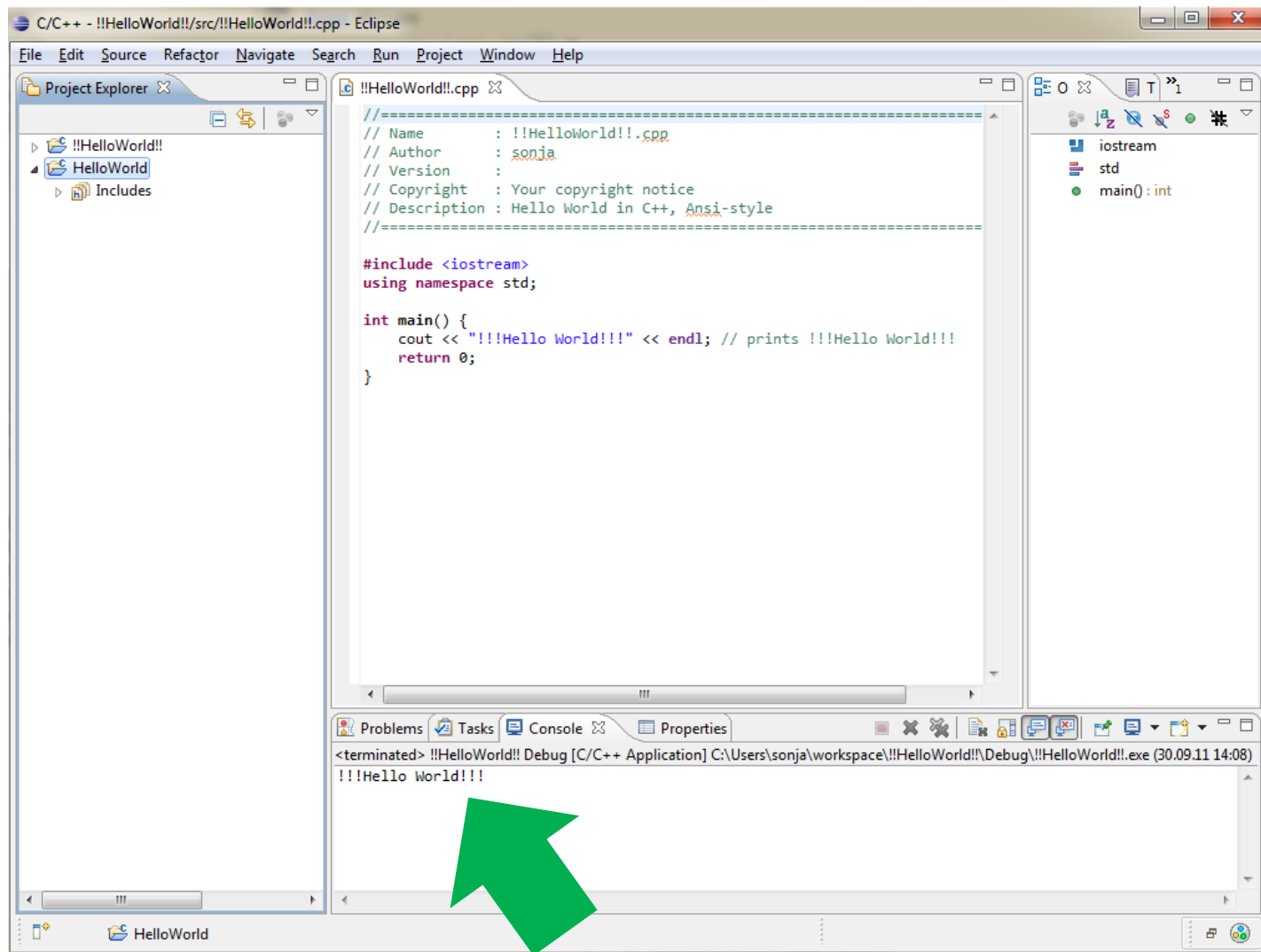






Running the Application

- Within the C/C++ Perspective, click **Run > Run Configurations....**
- Select **C/C++ Application**.
- Click **New**.
A new Run Configuration is created. Its name and path to the executable are provided by the project ('Hello World' in our case).
- Click **Run**.
- Now, you should see the Hello World application running in the **Console** view. The **Console** also shows which application is running in a title bar.
- You can click the other views to see the information that they contain.



Fehlermeldung

internal builder is used for build - nothing to build for mingw

Verification that the IDE & Compiler Are Working

In the Eclipse Main Menu

- select "File" -> "New" -> "C++ Project"

In the "C++ Project" window

- type "configTest" as Project name (note how the grayed-out default location updates as you type)

Below the "Project types:" and "Toolchain:" listboxes

- uncheck "Show project types and toolchains only if they are supported on the platform"

This will display all toolchains in the "Toolchain:" listbox on the right

- select "Linux GCC" toolchain
- select "Finish"

In the Project Explorer on the left, you will now see the new project named "configTest"

- right click the project name, select "New" -> "Source Folder"

In the "New Source Folder" window

- type "src" as Folder name
- select "Finish"

The new folder "src" now appears in the project explorer

- right click this folder, select "New" -> "Source File"

In the "New Source File" window

- type "*configTest.cpp*" as Source File
- select "Finish"

This will open a text editor to the right of the Project Explorer, and the text editor window should be labeled "*configTest.cpp*". In this window

- enter the following code (make sure to add a newline after the last line of code)

```
#include <iostream>

using namespace std;

int main()
{
    int i;

    for (i=0; i < 15; i++)
        cout << i << " ";

    cout << "done..." << endl;

    return 0;
}
```


In the Eclipse main menu

- select "File" -> "Save"
- select "Project" -> "Build Automatically" to disable it
- select "Project" -> "Build Project"

If everything is working fine, this should result in the following text in the Console window below your text editor window:

```
**** Build of configuration Debug for project configTest ****  
  
**** Internal Builder is used for build ****  
g++ -O0 -g3 -Wall -c -fmessage-length=0 -osrc\configTest.o ..\src\configTest.cpp  
g++ -oconfigTest.exe src\configTest.o  
Build complete for project configTest  
Time consumed: 453 ms.
```

If not, see
next slide

Obviously, the "Time consumed" value may vary, depending on your system speed.

- [configure your project to use the Windows PE Binary Parser](#)
- in the Project Explorer on the left, select the configTest project (alternatively, have focus to the source code editor for configTest.cpp - just don't have focus on the Console)
- from the Eclipse main menu, select "Run" -> "Run As" -> "1 Local C/C++ Application"

This should result in the following output in the console window:

```
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 done...
```

- [tell Eclipse what your executable extension will be](#)
- exit Eclipse

Congratulations, you have successfully installed Eclipse CDT and can now use it for development of C/C++ applications that will port easily to other operating systems.

- This would be a good time to [make yourself familiar with build configurations](#)

Fixing the "Program is not a Recognized Executable" Error

When you compile & link a program, the Eclipse run feature will try to recognize the executable into this problem:

In the Eclipse main menu

- select "Project" -> "Properties"
- navigate to "C/C++ Build" -> "Settings" -> (on the right) "Binary Parsers"

In the "Binary parser:" list

- uncheck the "Elf Parser"
- check the "PE Windows Parser"
- select "OK" (lower right)

http://wiki.wxwidgets.org/Eclipse,_CDT_%26_MingW_%26_MSYS_Setup_Guide#Fixing_the_.22Program_is_not_a_Recognized_Executable.22_Error