.Net-Entwicklung mit freien Werkzeugen

MATHEMA

gearconf
Software entwickeln im Team

Wer bin ich …

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Software entwickeln im Team

- Senior Consultant, Architekt und Trainer (MATHEMA Software GmbH)
- 25+ Jahre Software
- 12+ Jahre Java Enterprise
- 7+ Jahre .Net

- Schwerpunkte
  - Software Architektur
  - Verteilte Systeme
  - Objekt-Relationales Mapping

- Artikel und Konferenzen
  - KaffeeKlatsch (www.kaffeeklatsch.de) , ObjektSpektrum
  - gearconf, Herbstcampus, Java Forum Stuttgart, SET Zürich, Jazzon, PRIO

E-Mail: thomas.haug@mathema.de

Agenda

- Motivation
- Werkzeuge
- Zusammenfassung

Agenda

- Motivation
- Werkzeuge
- Zusammenfassung

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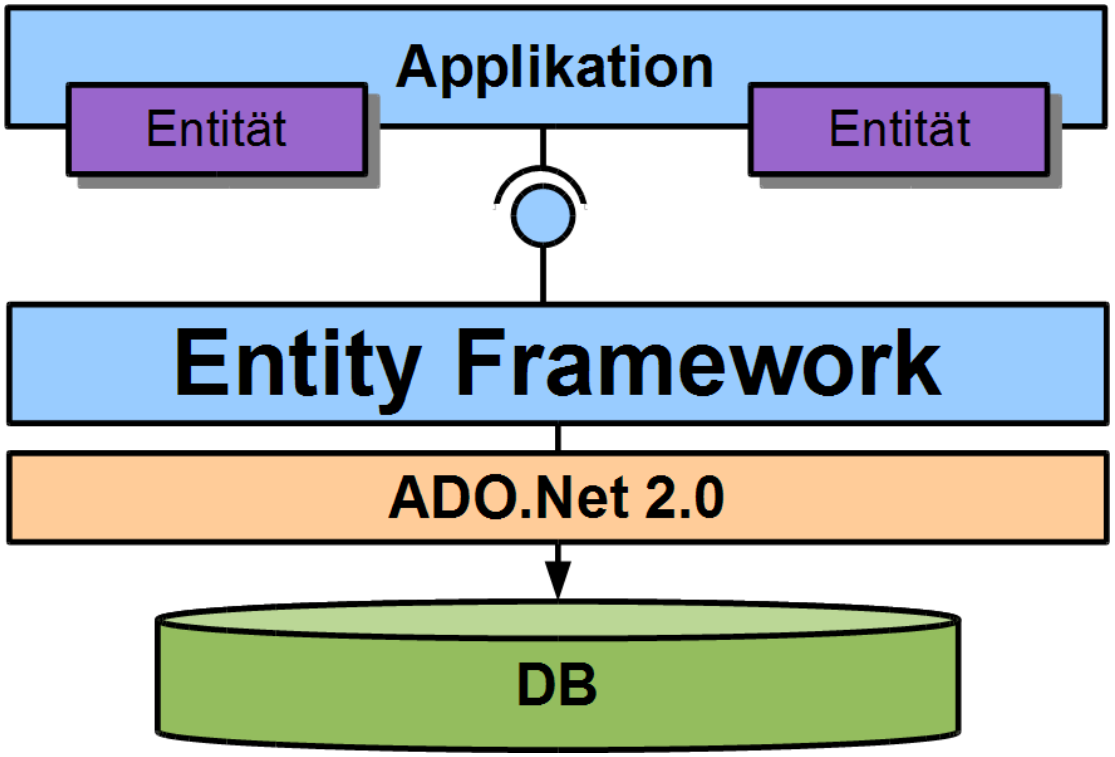
- Entity Framework 4
  - Objekt-Relationales Mapping Framework
  - Bestandteil des .Net 4.0 Release
  - Impendance Mismatch
    - Granularität
    - Vererbung/Polymorphie
    - Identität
    - Beziehungen



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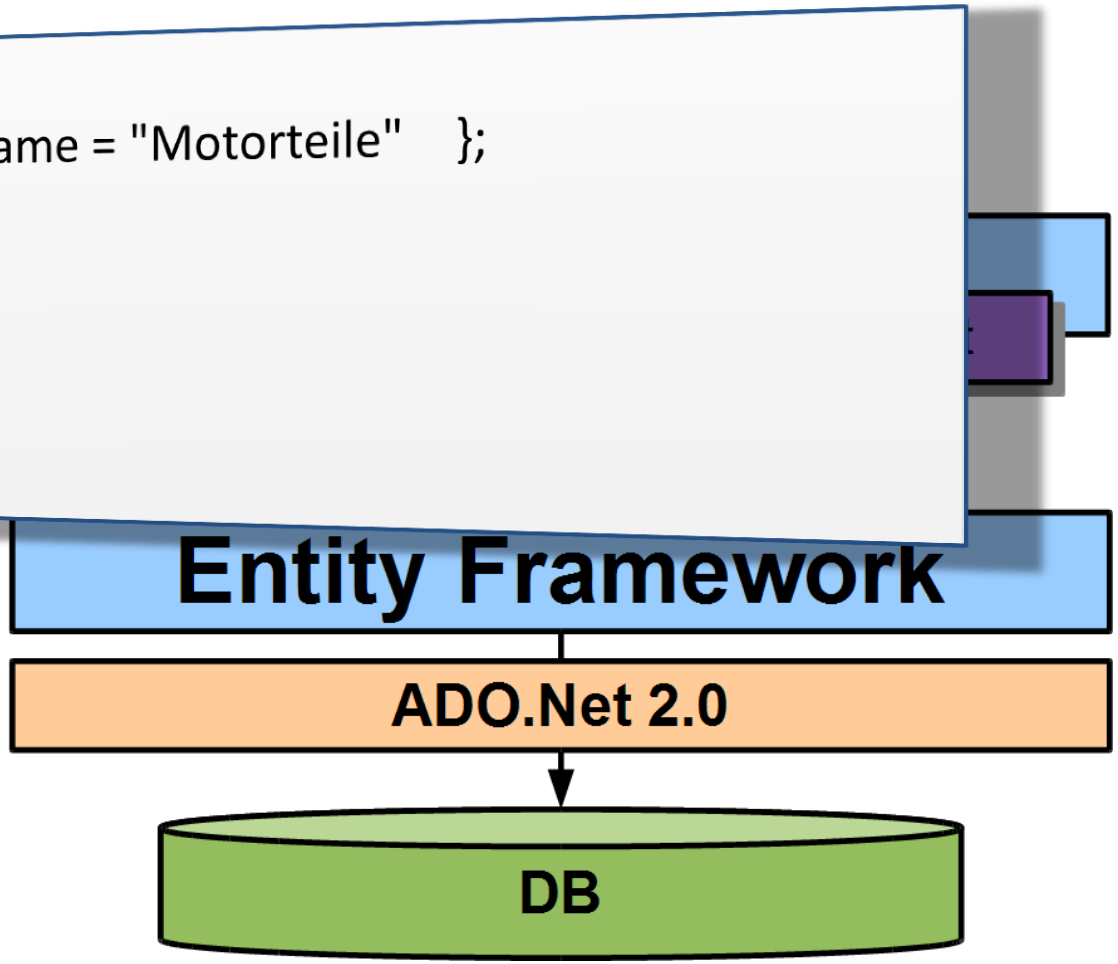
- Beispiel

```
using (EFEntities ctx = new EfEntities()) {
   Category myCat = new Category()  {      Name = "Motorteile"    };

   ctx.Categories.AddObject(myCat);

   ctx.SaveChanges();
}
```



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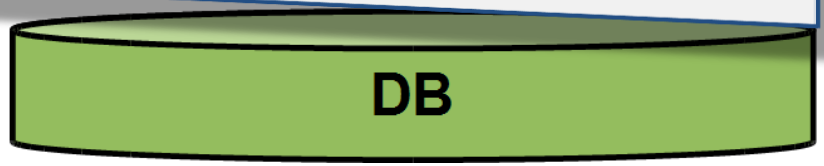
- Mit den Community Technology Preview (CTP) ist Code Frist möglich

```
ContextBuilder<BSContext> builder =
  new ContextBuilder<BSContext>();

builder.Entity<Category>()
        .HasKey(category => category.CategoryID)
        .MapSingleType(  cat => new {
                                CAT_ID = cat.CategoryID,
                                CAT_NAME = cat.Name,
                                CAT_DESC = cat.Description    }
                    )
        .ToTable("EF4_CTP2_CATEGORY");
```



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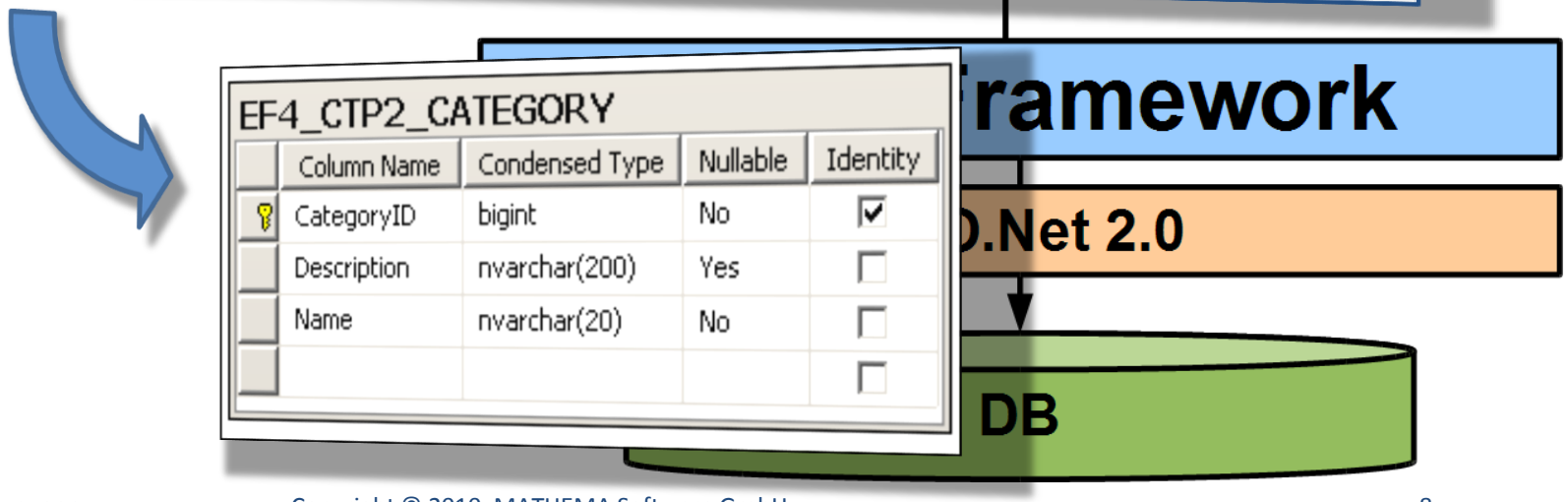
Software entwickeln im Team

- Mit dem Community Technology Preview (CTP) 3 Code Frist möglich

```
EntityConfiguration<Category>    catConf =  builder.Entity<Category>();

catConf.Property(cat => cat.Name).HasMaxLength(20);
catConf.Property(cat => cat.Name).IsRequired();  // not null
catConf.Property(cat => cat.CategoryID).IsIdentity();
```



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- Projektidee

```
[Entity (Table=" EF4_CTP2_CATEGORY ")]
public class Category {

  [Id]
  [Column(Name = " CAT_ID")]
  public long CategoryID { get; set; }

  [Column(Name = " CAT_NAME", Length=20, Nullable=false)]
  public string Name { get; set; }

  [Column(Name = " CAT_DESC", Length=200)]
  public string Description { get; set; }
}
```

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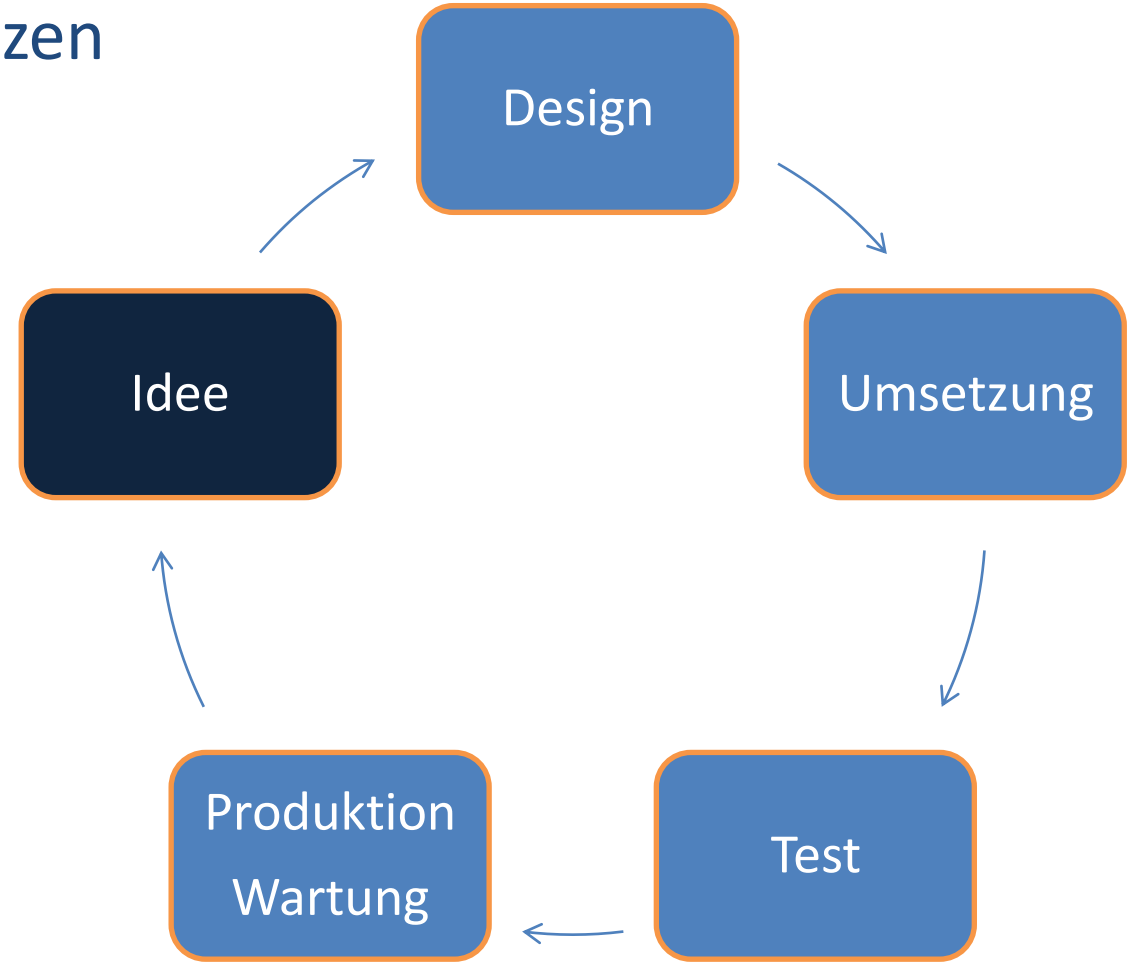
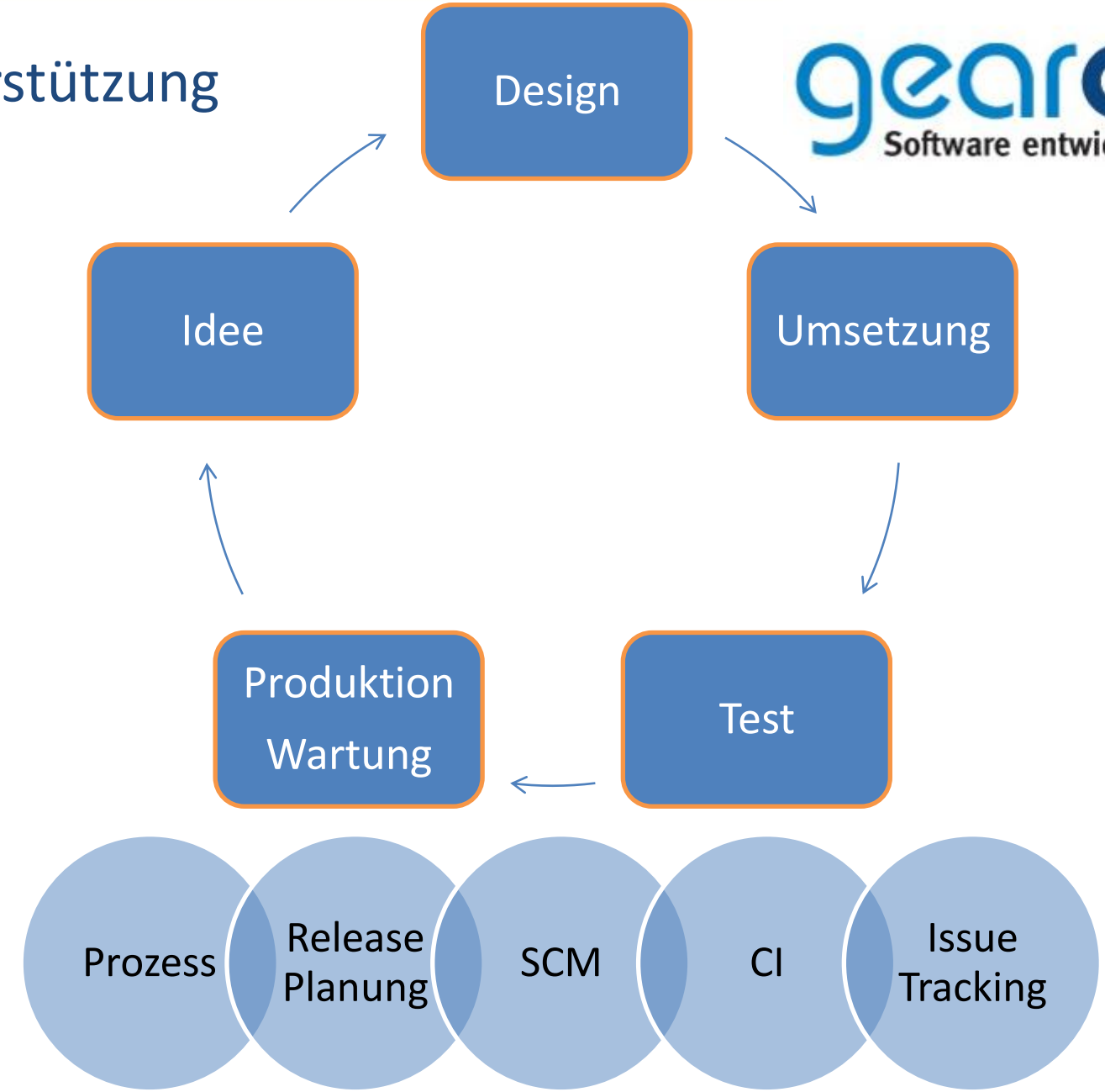
- Was wird benötigt, um die Projektidee „professionell“ umzusetzen



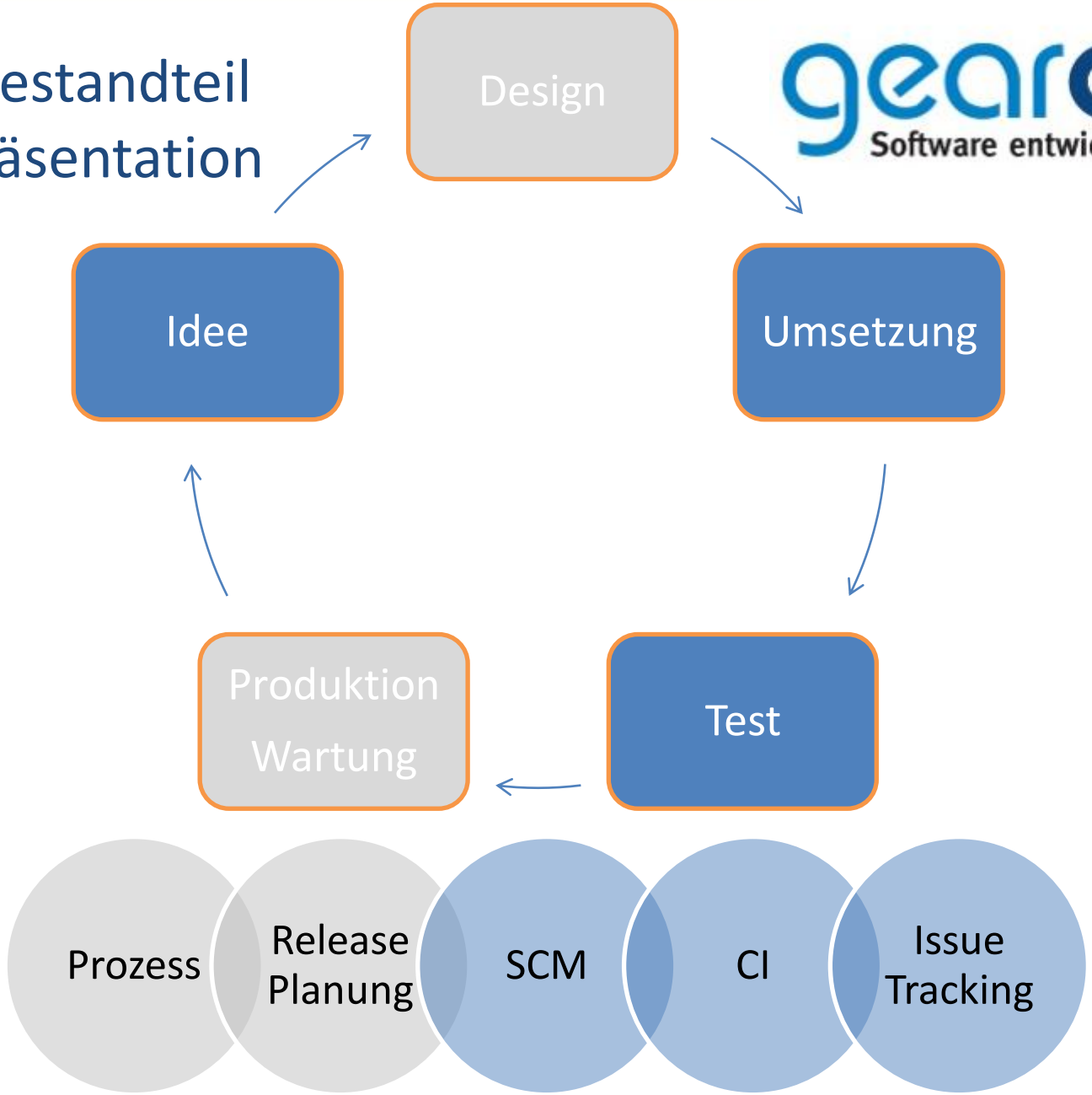
Motivation

- Unterstützung



Motivation

- Kein Bestandteil der Präsentation



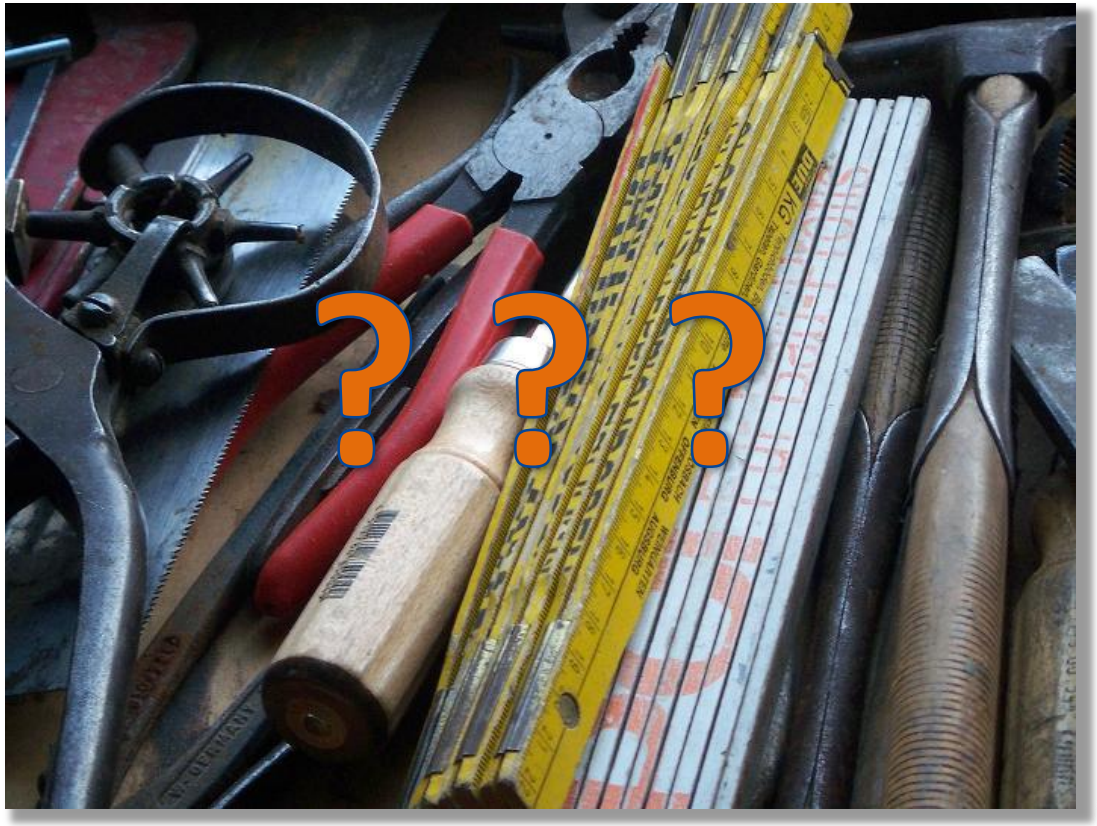
Motivation

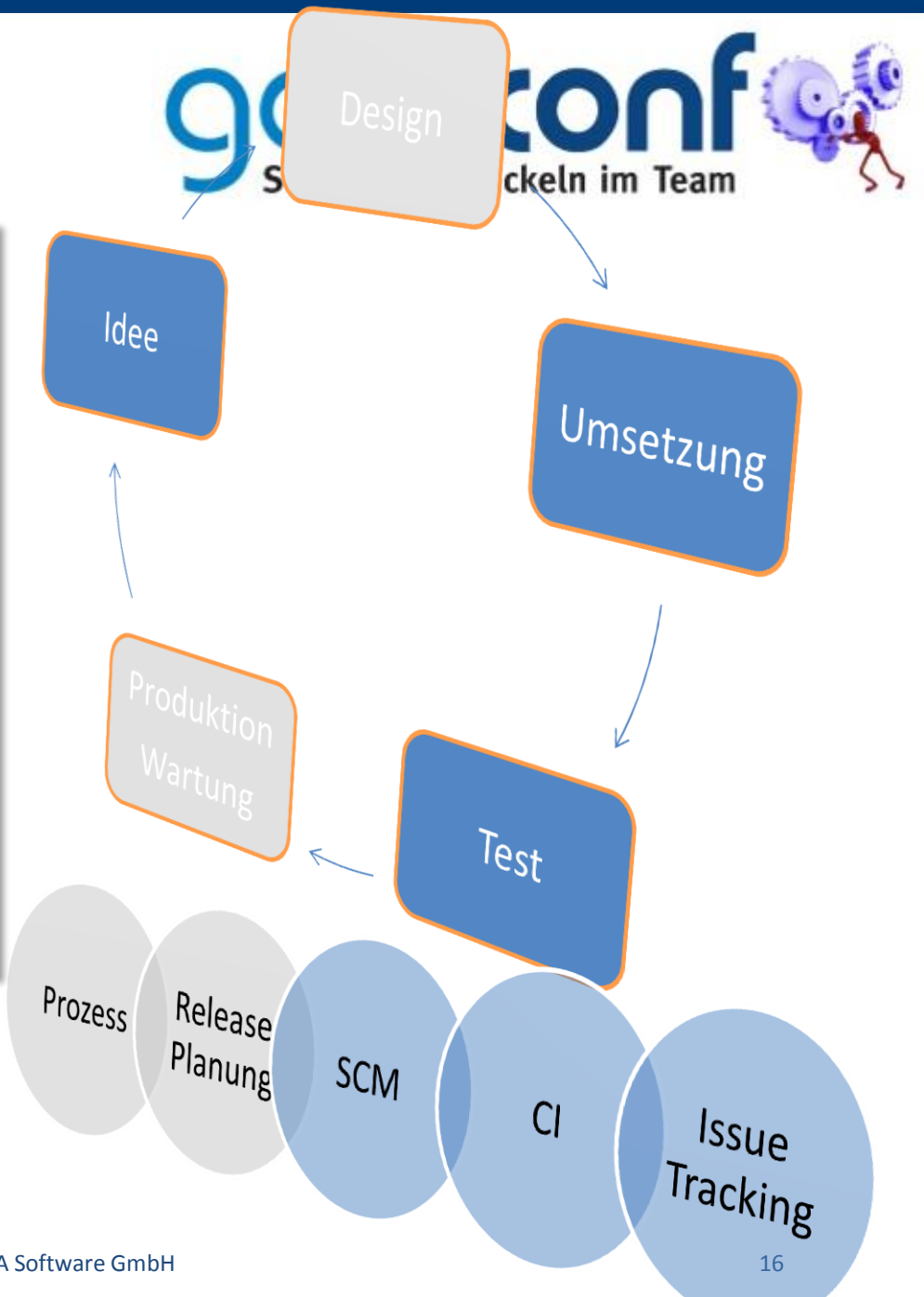
Motivation

Agenda

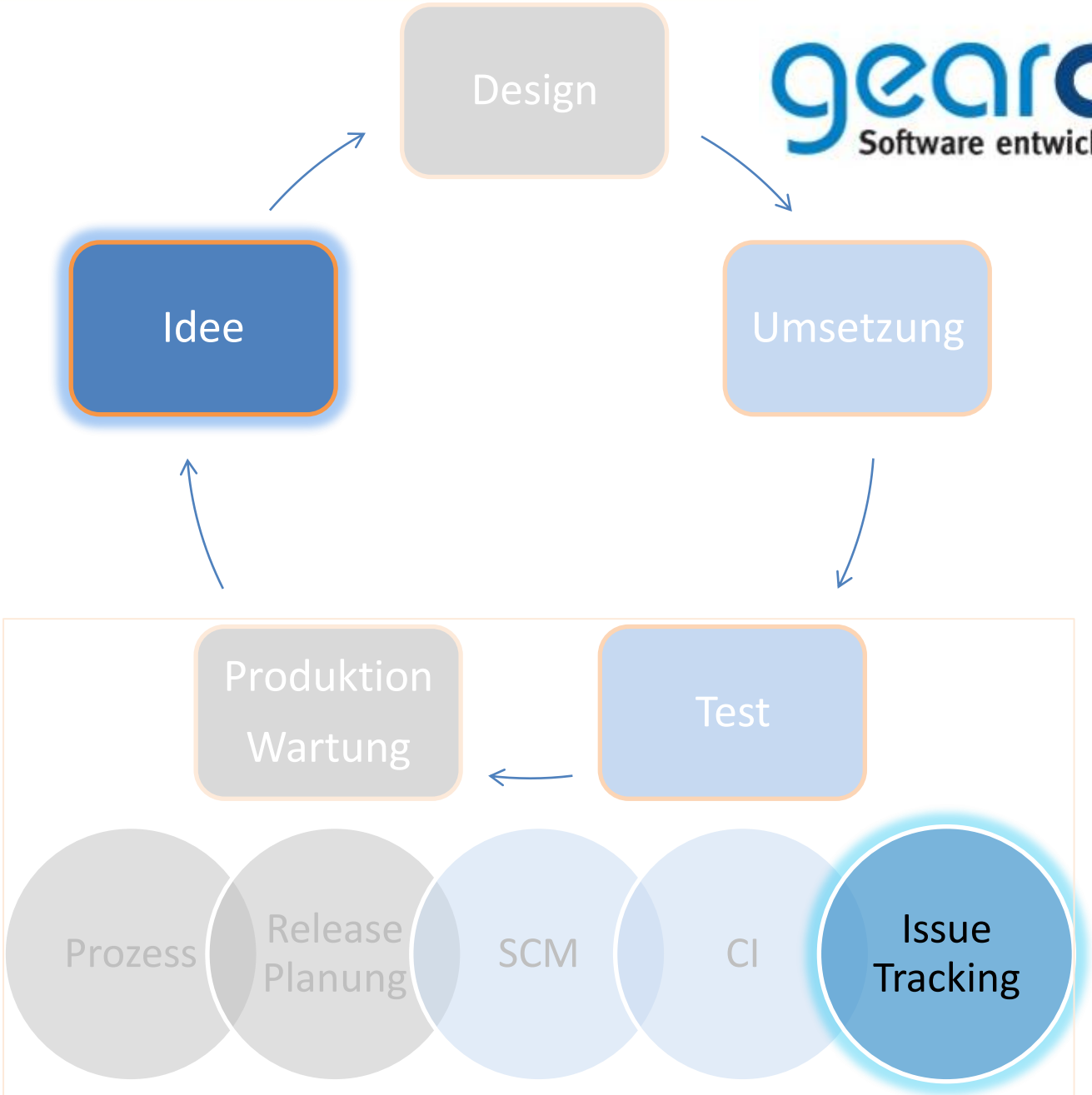
- Motivation
- Werkzeuge
- Zusammenfassung

Welche Werkeuge?



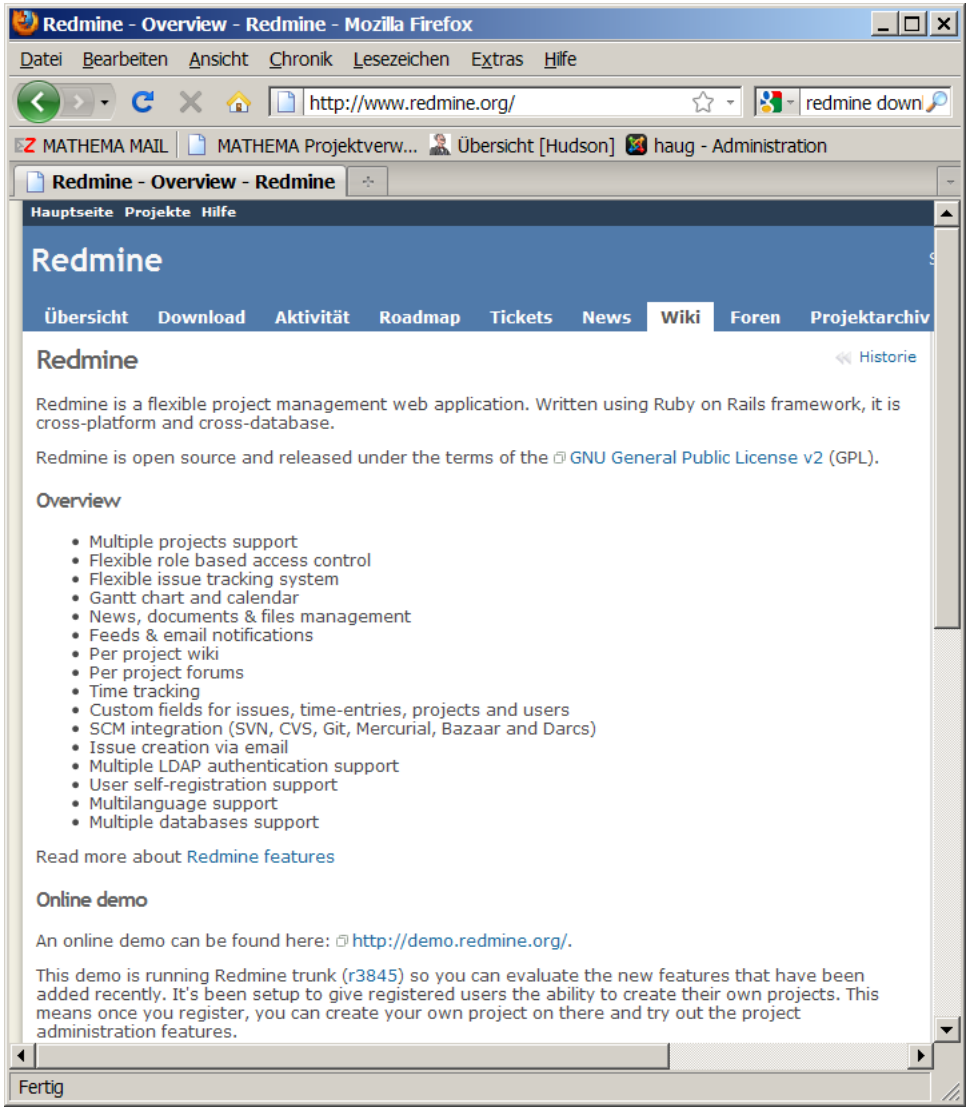


Motivation



Zusammenarbeit und Issue Tracking

- RedMine
- Projekt Management Web Application
- www.redmine.org
- Features (Ausschnitt)
  - ticket management
  - email notifications
  - project wiki
  - SCM integration



Zusammenarbeit und Issue Tracking

- RedMine Installations „Tipp“

  (www.bitnami.org/stack/redmine)

BitNami :: Redmine - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://bitnami.org/stack/redmine

virtual svn

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

BitNami :: Redmine

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- JRubyStack
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- LAPPStack
- MAMPStack
- MAPPStack
- RubyStack
- SAMPStack
- WAMPStack
- WAPPStack

Blog
- Roller
- Typo
- WordPress

Bug-Tracking
- Mantis
- Redmine
- Trac

Business Intelligence
- JasperServer

CMS
- Alfresco
- Drupal
- Enano CMS
- eZ Publish
- Joomla
- KnowledgeTree

Redmine

Subscribe to this project

Categories: Bug-Tracking Project Management
Technologies: MySQL Ruby on Rails
Licenses: Apache GPL

BitNami Redmine Stack greatly simplifies the deployment of Redmine and its required dependencies. It can be deployed using a native installer, as a virtual machine, in the cloud or as a module over an already installed infrastructure Stack.

Redmine is a flexible project management web application. Written using Ruby on Rails framework, it is cross-platform and cross-database. Its main features are:

- Multiple projects support
- Flexible role based access control.
- Flexible issue tracking system
- Gantt chart and calendar
- News, documents and files management
- Feeds and email notifications.
- Per project wiki
- Per project forums
- Simple time tracking functionality
- Custom fields for issues, projects and users
- SCM integration (SVN, CVS, Mercurial and Darcs)
- Multiple LDAP authentication support
- User self-registration support
- Multilanguage support
- Multiple databases support

The BitNami Redmine Stack native installers were packaged using BitRock's cross platform installer tool.

Fertig

Zusammenarbeit und Issue Tracking

- Projekt Übersicht

Attributes4Entities - Übersicht - MATHEMA Projektverwaltung - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

mathema.de https://redmine.mathema.de/projects/show/a4e

Hauptseite Meine Seite Projekte Hilfe — Angemeldet als haug Mein Konto Abmelden

Attributes4Entities

Suche: Zu einem Projekt springen...

Übersicht Aktivität Tickets Neues Ticket News Dokumente Dateien Projektarchiv Konfiguration Kuverto

Übersicht

Entity Framework per Annotationen steuern. Erweiterung des Microsoft Entity Framework 4.0 CTP 3 bzw. 4

Tickets

- Fehler: 0 offen von 1
- Feature: 4 offen von 5
- Unterstützung: 3 offen von 3

Alle Tickets anzeigen

Mitglieder

Entwickler
Manager: Thomas Haug

Terminplanung

Kalender | Gantt-Diagramm

Aufgewendete Zeit

29.00 Stunden

Details | Bericht

Powered by Redmine © 2006-2009 Jean-Philippe Lang

Fertig

News Wiki Foren Projektarchiv

Historie

. Written using Ruby on Rails framework, it is

the GNU General Public License v2 (GPL).

users
nd Darcs)

e.org/.

valuate the new features that have been
he ability to create their own projects. This
t on there and try out the project

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Zusammenarbeit und Issue Tracking

- Projekt Tickets

Attributes4Entities - Tickets - MATHEMA Projektverwaltung - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

mathema.de https://redmine.mathema.de/projects/a4e/issues

Hauptseite Meine Seite Projekte Hilfe — Angemeldet als haug Mein Konto Abmelden

Attributes4Entities

Suche: Zu einem Projekt springen...

Übersicht | Aktivität | Tickets | Neues Ticket | News | Dokumente | Dateien | Projektarchiv | Konfiguration | Kuverto

Tickets

Filter

Status: offen — Filter hinzufügen:

Anwenden | Zurücksetzen | Speichern

#	Tracker	Status	Priorität	Thema	Zugewiesen an	Aktualisiert
177	Feature	Neu	Normal	PartCover Integration	Thomas Haug	01.09.10 22:21
176	Feature	Neu	Normal	FXCop Integration	Thomas Haug	01.09.10 22:19
175	Feature	Neu	Normal	StyleCop Integration in NAnt und Hudson	Thomas Haug	01.09.10 22:18
164	Unterstützung	Gelöst	Hoch	MS SQL Server 2008 R2 Express installieren	Thomas Haug	01.09.10 22:15
163	Unterstützung	Gelöst	Niedrig	E-Mails aus Hudson senden	Thomas Haug	01.09.10 22:16
139	Feature	Zugewiesen	Normal	Support for NAnt Build	Thomas Haug	01.09.10 22:17
115	Unterstützung	Neu	Normal	Architektur und Design Review	Thomas Haug	10.07.10 22:16

(1-7/7) | Pro Seite: 25, 50, 100

Auch abrufbar als: Atom | CSV | PDF

Tickets: Alle Tickets anzeigen, Zusammenfassung, Change-Log

Terminplanung: Kalender | Gantt-Diagramm

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News | Wiki | Foren | Projektarchiv

Historie

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the GNU General Public License v2 (GPL).

users
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e.org/.

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Zusammenarbeit und Issue Tracking

- Projekt SCM View

Attributes4Entities - Projektarchiv - MATHEMA Projektverwaltung - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

mathema.de https://redmine.mathema.de/repositories/show/a4e

Nunit download

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

Attributes4Entities Nightly Buil... | Zimbra: Posteingang (15) | Attributes4Entities - Proje...

Hauptseite Meine Seite Projekte Hilfe — Angemeldet als haug Mein Konto Abmelden

Attributes4Entities

Suche: Zu einem Projekt springen...

Übersicht | Aktivität | Tickets | Neues Ticket | News | Dokumente | Dateien | Projektarchiv | Konfiguration | Kuverto

Projektarchiv (Subversion)

Statistiken

Revision:

Name	Größe	Revision	Geändert vor	Autor	Kommentar
EF_Attributes		724	14 Tagen	Thomas Haug	IssueID #176 FxCop Regeln
libs		723	14 Tagen	Thomas Haug	IssueID #176 FxCop 10 (Bestandteil des Windows ...
projects		724	14 Tagen	Thomas Haug	IssueID #176 FxCop Regeln
EfAttributes		644	63 Tagen	Thomas Haug	CTP4 added adjustments for .Net 4.0 Nant Suppor...
EfAttributesTests		710	33 Tagen	Thomas Haug	Doppeltes "\" führt zu Instanzausfall (SQL Serv...
EFAttributesRules.FxCop	24.3 KB	724	14 Tagen	Thomas Haug	IssueID #176 FxCop Regeln
EFAttributesTest.nunit	322 Bytes	647	63 Tagen	Thomas Haug	initial version
nant.build	7.1 KB	722	14 Tagen	Thomas Haug	IssueID #176 Nant Target für FxCop 10 (Bestandt...
EF_CTP4		635	73 Tagen	Thomas Haug	Example using EF CTP4 Data Annotations

Aktuellste Revisionen

#	Datum	Autor	Kommentar
724	20.09.10 22:07	Thomas Haug	IssueID #176 FxCop Regeln
723	20.09.10 21:51	Thomas Haug	IssueID #176 FxCop 10 (Bestandteil des Windows 7.1 SDK)
722	20.09.10 21:50	Thomas Haug	IssueID #176 Nant Target für FxCop 10 (Bestandteil des Windows 7.1 SDK)
721	20.09.10 20:15	Thomas Haug	relativen Pfad verwenden
710	01.09.10 22:08	Thomas Haug	Doppeltes "\" führt zu Instanzausfall (SQL Server) fehler Nachricht.
709	01.09.10 22:04	Thomas Haug	relativer Pfad für Coverage und Nant.xml
708	31.08.10 22:20	Thomas Haug	test...
698	10.08.10 23:45	Thomas Haug	xml file specified
697	10.08.10 23:13	Thomas Haug	coverage with report generation
696	10.08.10 22:20	Thomas Haug	adjustment for .Net 4.0

Revisionen anzeigen

Auch abrufbar als: Atom

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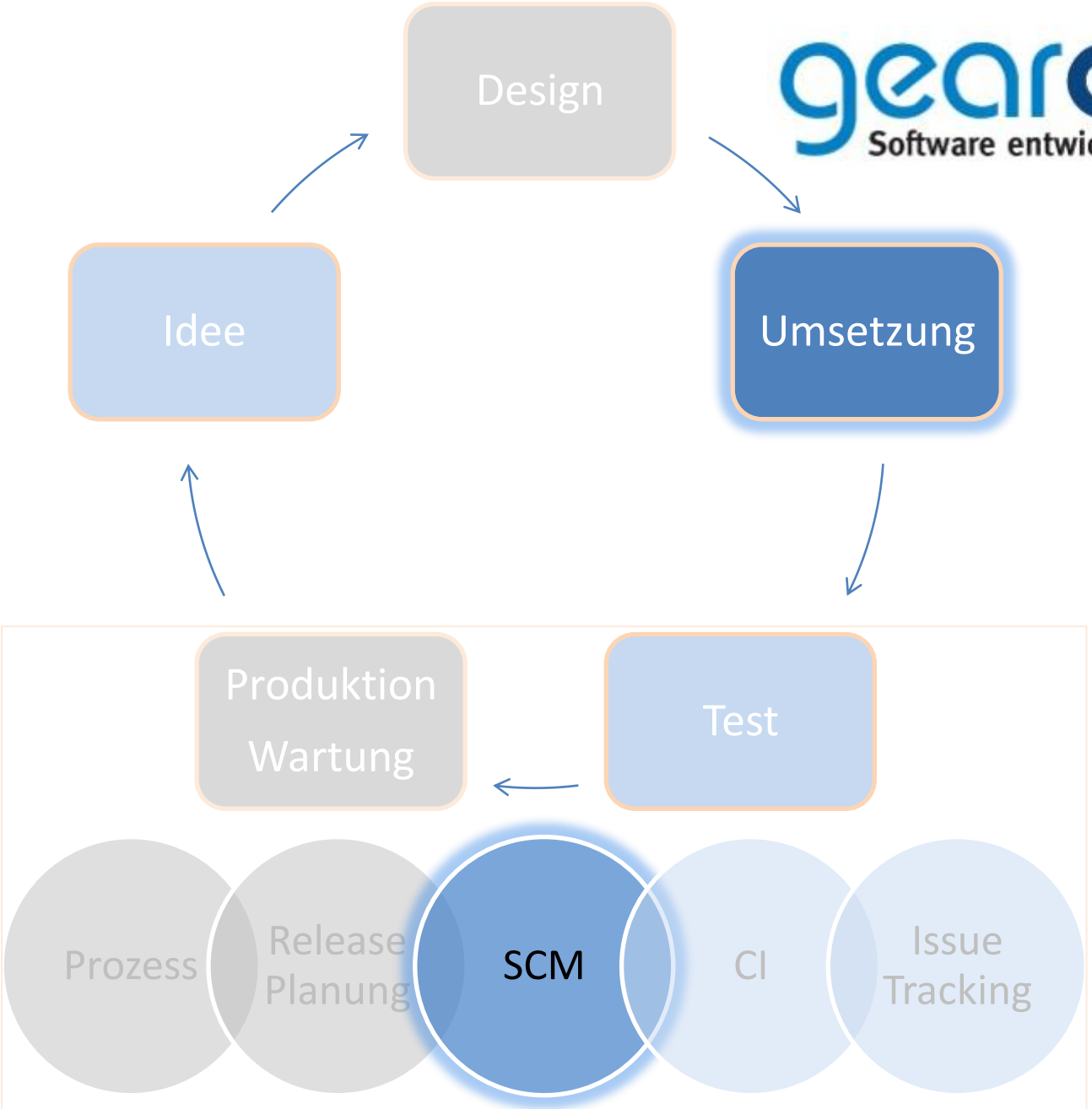
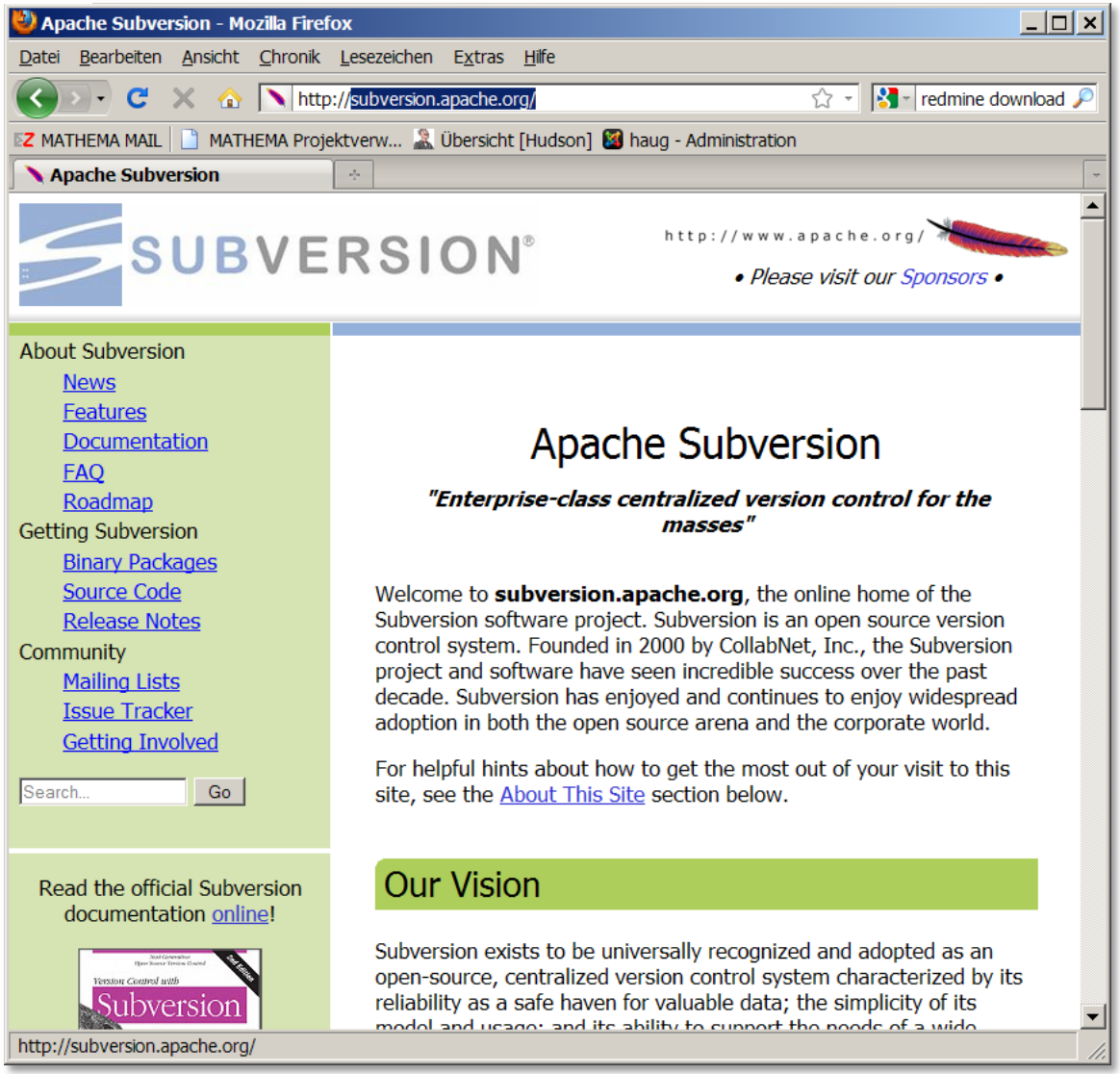
Motivation



- Subversion

- subversion.apache.org



- Subversion

- www.visualsvn.com

VisualSVN Server | Subversion Server for Windows - Mozilla Firefox

http://www.visualsvn.com/server/

VISUALSVNSERVER

download licensing

VISUALSVN SERVER // Subversion Server for Windows

VisualSVN Server allows you to easily install and manage a fully-functional Subversion server on the Windows platform. Thanks to its robustness, unbeatable usability and unique enterprise-grade features, VisualSVN Server is affordable both for small business and corporate users.

VisualSVN Server is based on open standards and offers rock-solid stability, security and performance. Its key features are:

- Works out-of-the-box
- Powerful management console
- Integrated Windows Authentication
- Remote Server Administration
- Access and Operational Logging

"If you plan to install Subversion in a Windows environment, there's no reason not to use VisualSVN [Server]. It greatly simplifies installing and managing Subversion and is available for free."

MSDN Magazine

Trusted by Fortune 500 customers:

McKESSON Raytheon SIEMENS HARRIS

Easy to install, configure and maintain

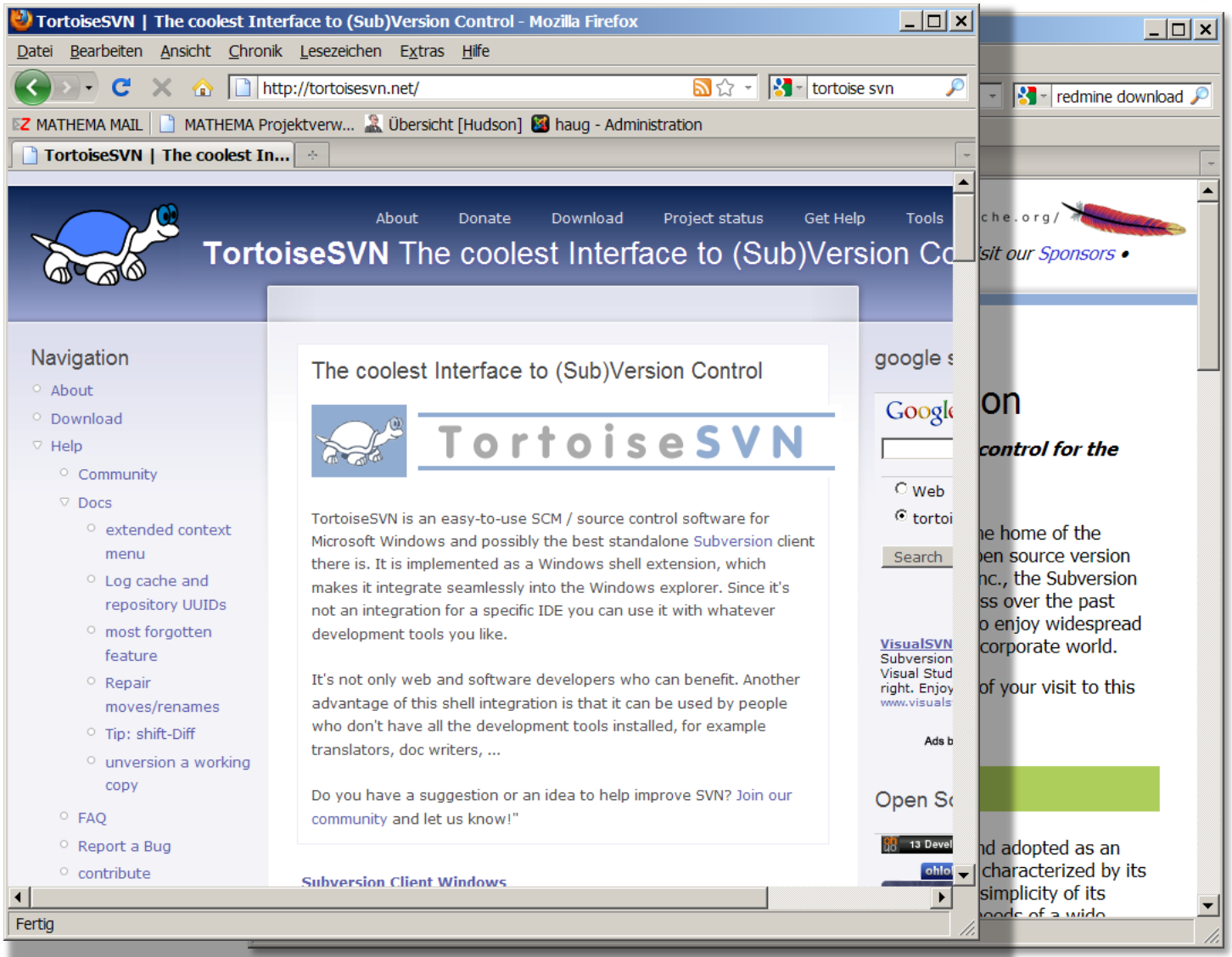
VisualSVN Server is distributed as a single installation package with the latest versions of all the required components. The installation process is extremely simple and allows you to setup a full-featured and ready to use Subversion server in just a few clicks. Upgrades to newer versions are simple too. Learn more...

Powerful management console

VisualSVN Server provides a handy management console co-called *VisualSVN Server Manager*. It is implemented as a standard MMC snap-in and allows you to manage your Subversion server without dealing with configuration files and command line tools. Learn more...

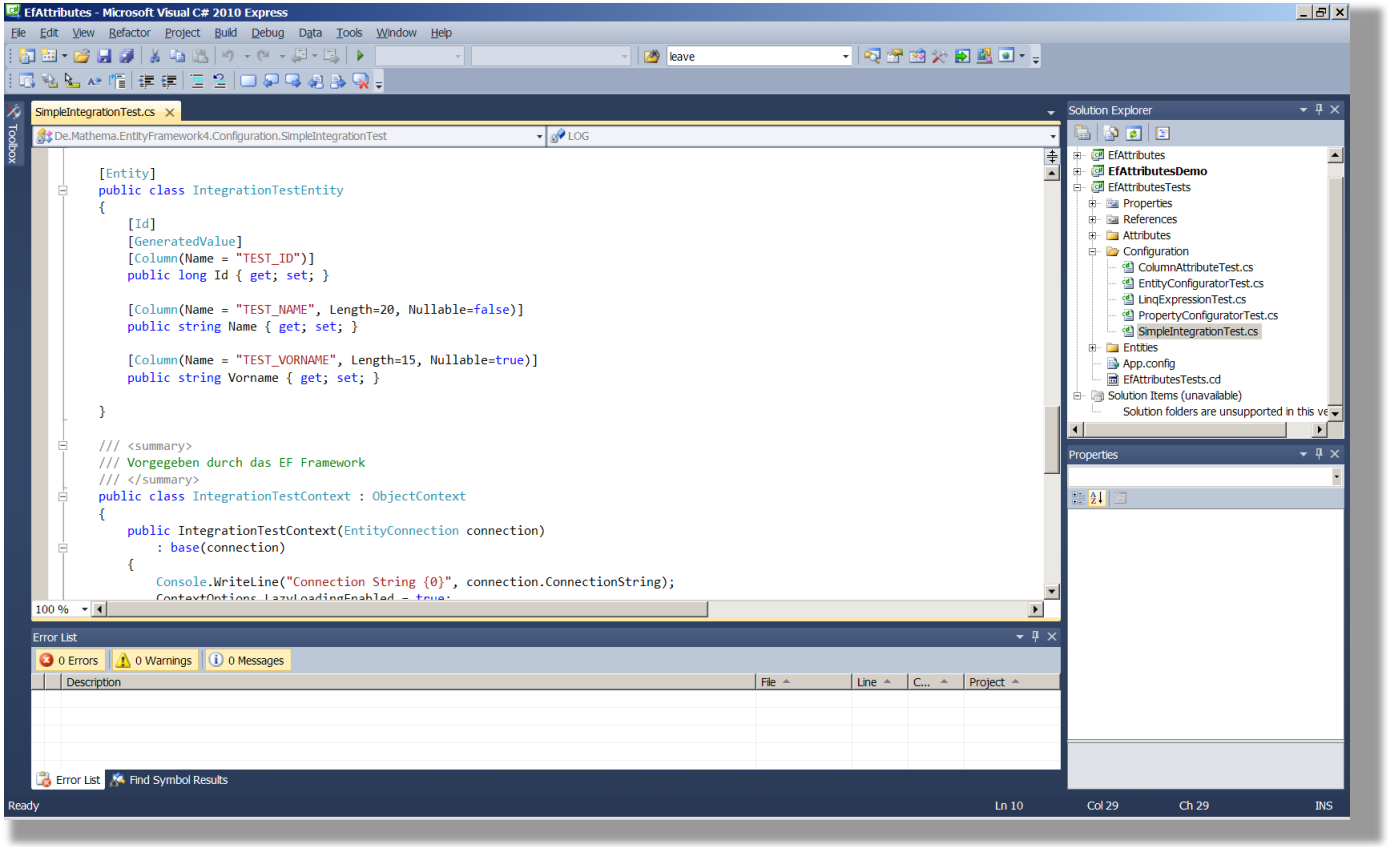
http://subversion.apache.org/

- Subversion
- www.visualsvn.com



Integrated Development Environment

- Visual Studio 2010 Express
- http://www.microsoft.com/germany/express/
- Frei verfügbar
- Keine Plugins möglich

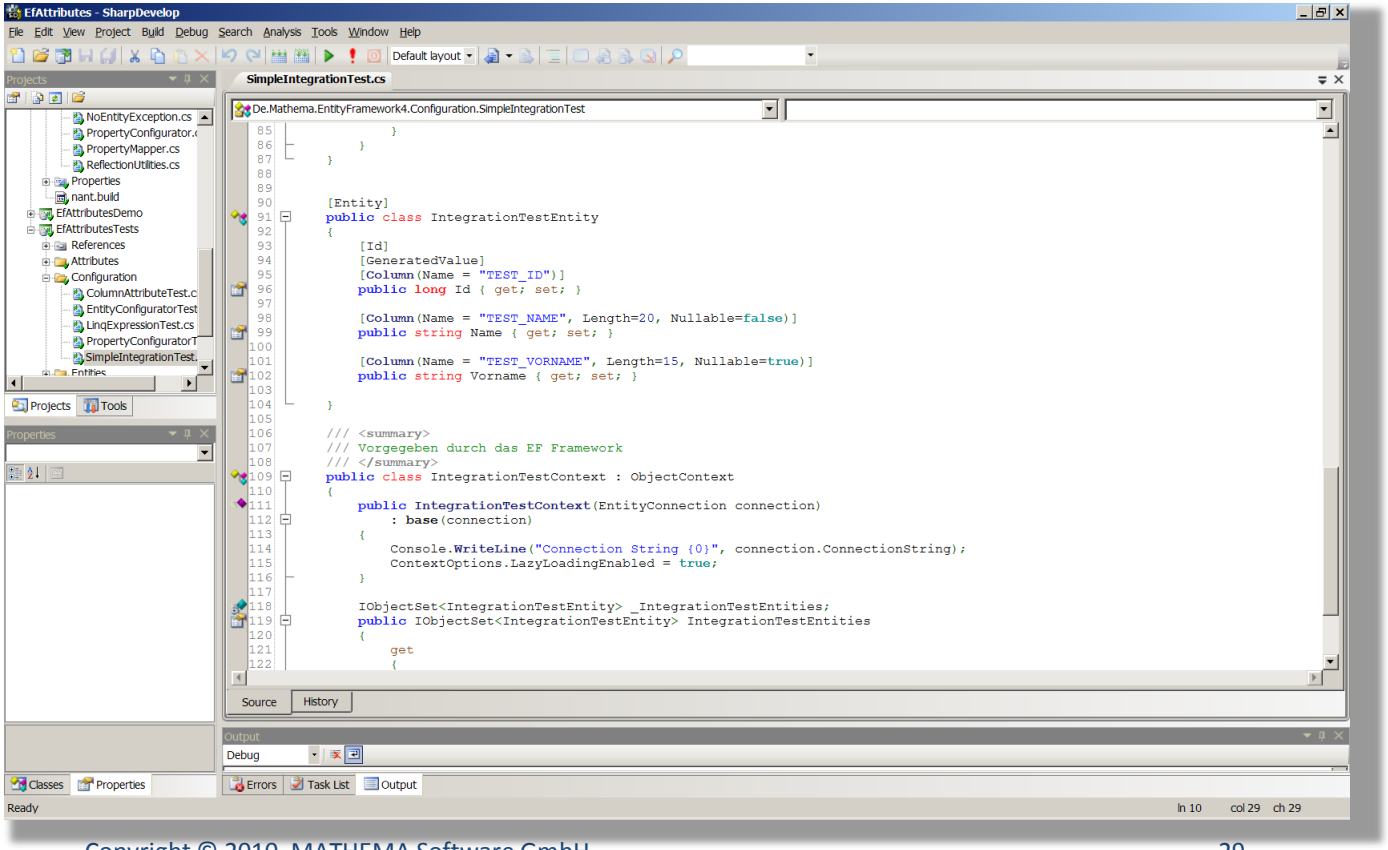


IDE - Visual Studio 2010 Express

- Visual Studio 2010 Express
  - Stabilität
  - Resolve namespaces/ refactoring
  - UI Designer
  - Unit Testing
  - Subversion Unterstützung

Integrated Development Environment

- Sharp Develop 4.0 Beta 3
- http://www.icsharpcode.net/opensource/sd
- Frei verfügbar
- Plugins möglich
- Integriert mit SVN



IDE - Visual Studio 2010 Express

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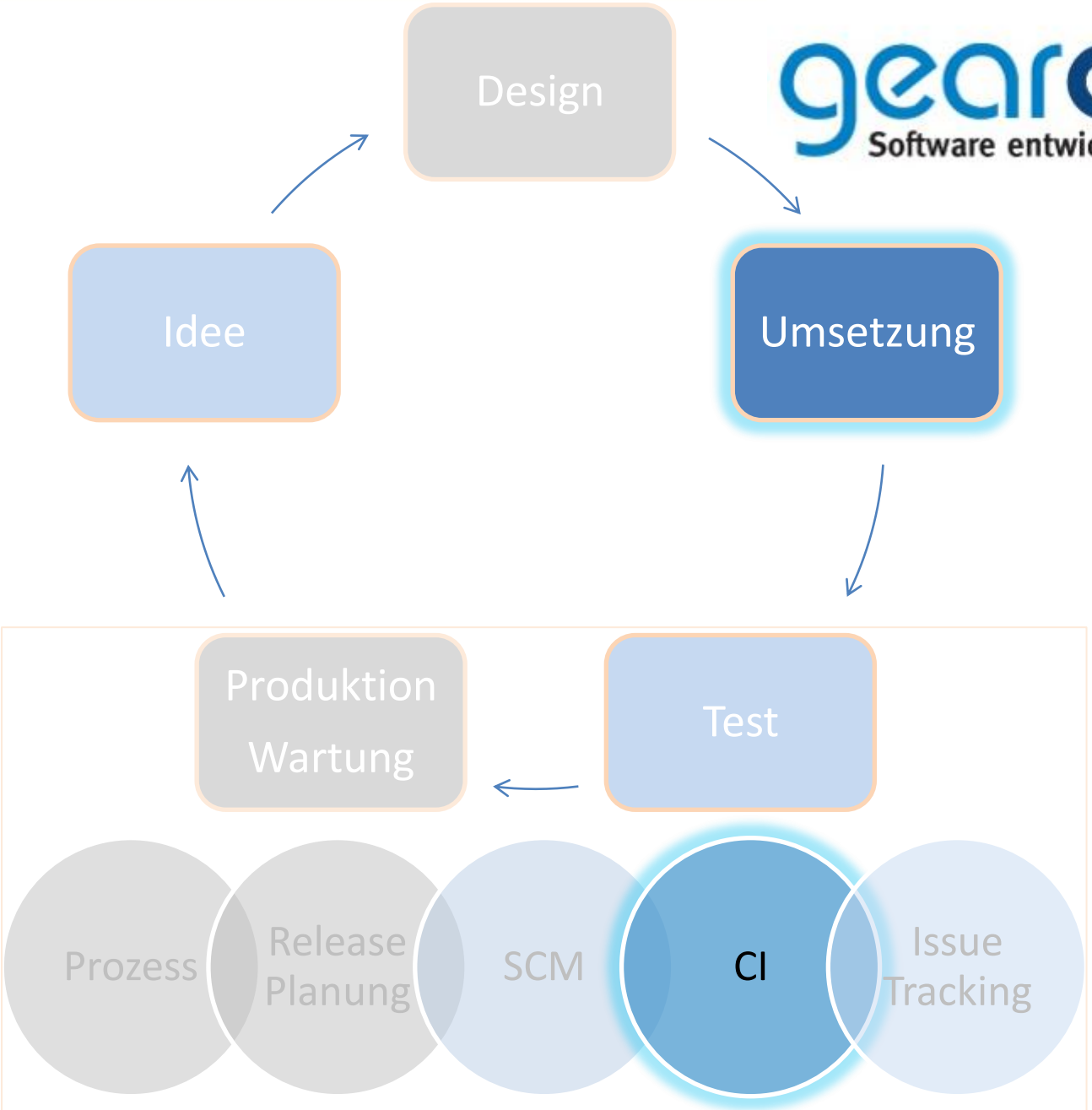
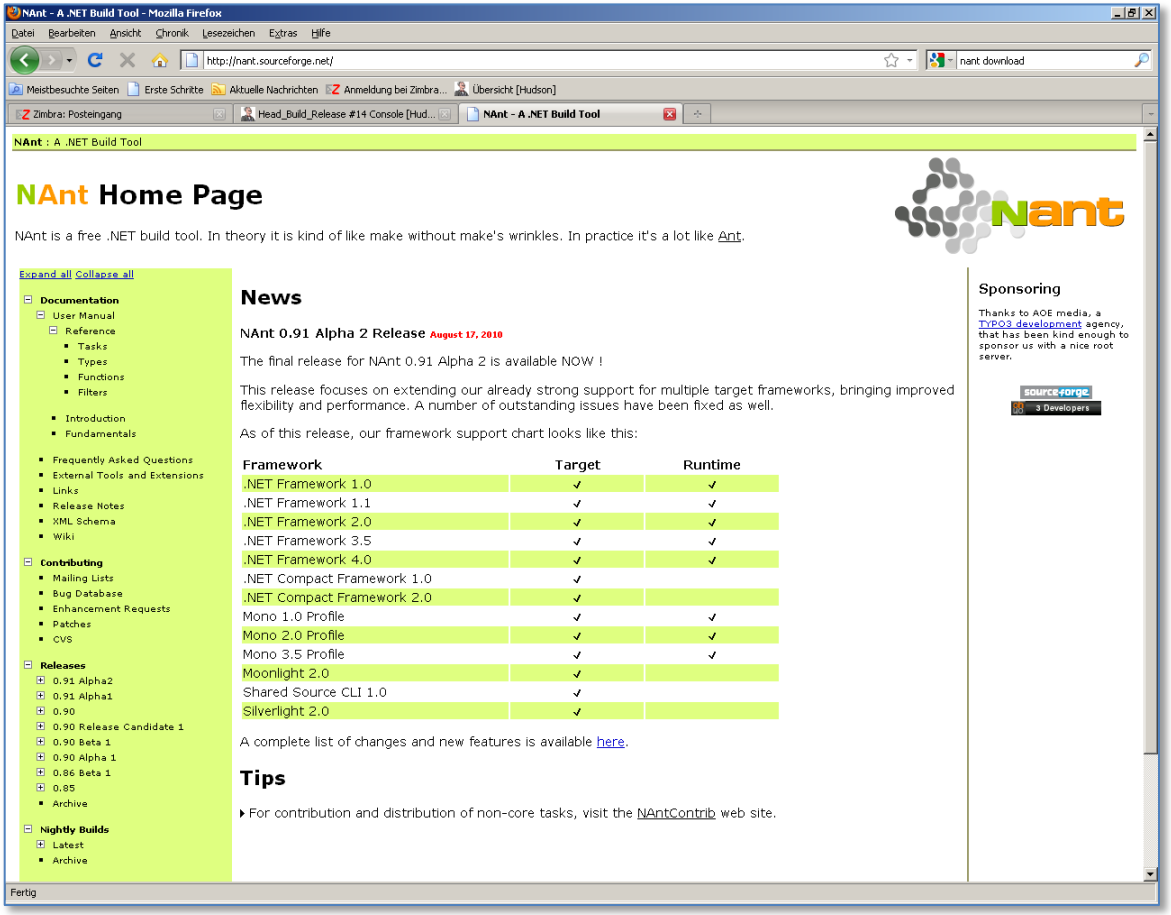
Software entwickeln im Team

- Sharp Develop 4.0 Beta 3
  - Stabilität
  - Resolve namespaces/ refactoring
  - UI Designer
  - Unit Testing
  - Subversion Unterstützung

Motivation



- Ein .Net Build Werkzeug
- http://nant.sourceforge.net
- Portierung von Ant
- frei verfügbar
- *Alternative MSBuild*



- Beispiel

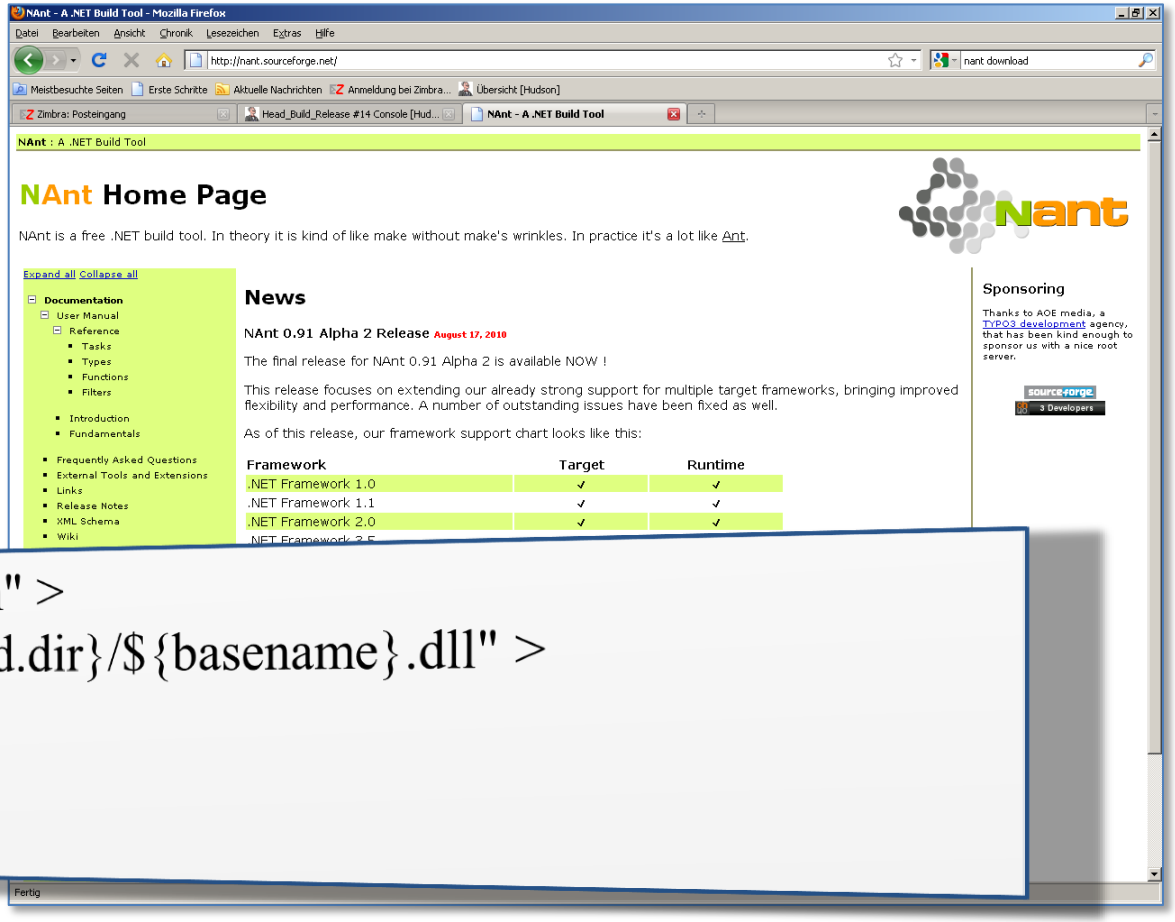
```
<?xml version="1.0" ?>
<project  name="Demo" default="get-env"
          xmlns="http://nant.sourceforge.net/release/0.90/nant.xsd">

    <property name="basedir" value="${project::get-base-directory()}"/>

    <target name= "A">
        <echo>Target A, in Verzeichnis  ${basedir}</echo>
    </target>

    <target name= "B" depends="A" >
        <!– mache etwas anderes   -->
    </target>
</project>
```

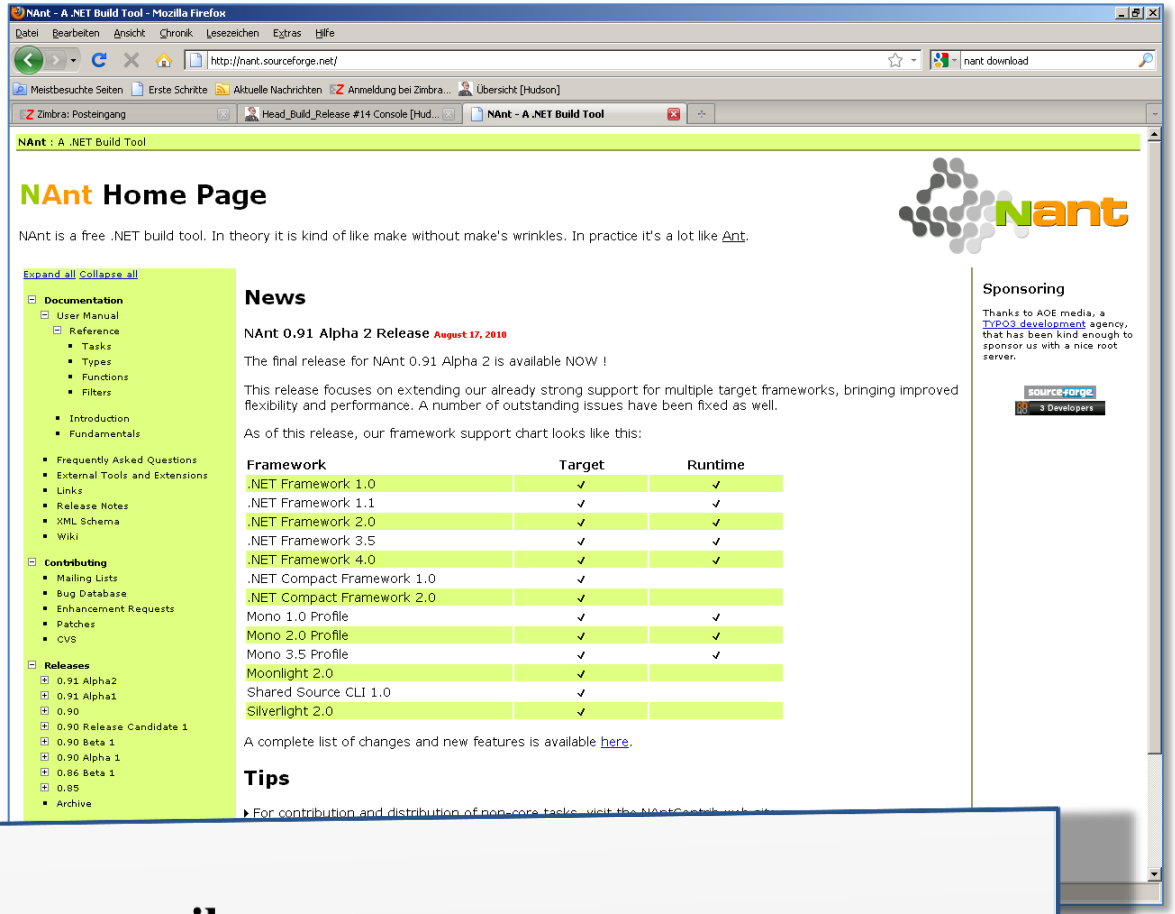
- Tasks
  - Werden innerhalb der Targets ausgeführt
- Task (Auswahl)
  - csc, nunit2, echo, copy, exec, mkdir,…




```
<target name="compile" depends="clean" >
    <csc target="library" output="${build.dir}/${basename}.dll" >
      …
    </csc>
</target>
```

- NAnt und .Net 4.0
  - Erweiterungen an Konfiguration notwendig (http://paigecsharp.blogspot.com/2009/08/nant-net-framework-40-configuration.html)

    (Entity Framework 4 benötigt zusätzliche Assemblies)
- NAnt aufrufen
  - NAnt [options] <target>
  - Beispiel




```
c:\project\demo>NAnt /f:nant.build clean compile
```

- Beispiel

```
<project  name="Attributes4Entities " default="get-env" >
    <target name="clean" description="cleans build directory">
        <delete dir="${build.dir}" if="${directory::exists(build.dir)}" />
    </target>

    <target name="compile" depends="“clean" >
        <csc target="library" output="${build.dir}/${basename}.dll" >
            <sources>
                <include name="${framework.dir}/**.cs"/>
            </sources>
            <references refid="system.assemblies"/>
        </csc>
    </target>
</project>
```

Continuous Integration

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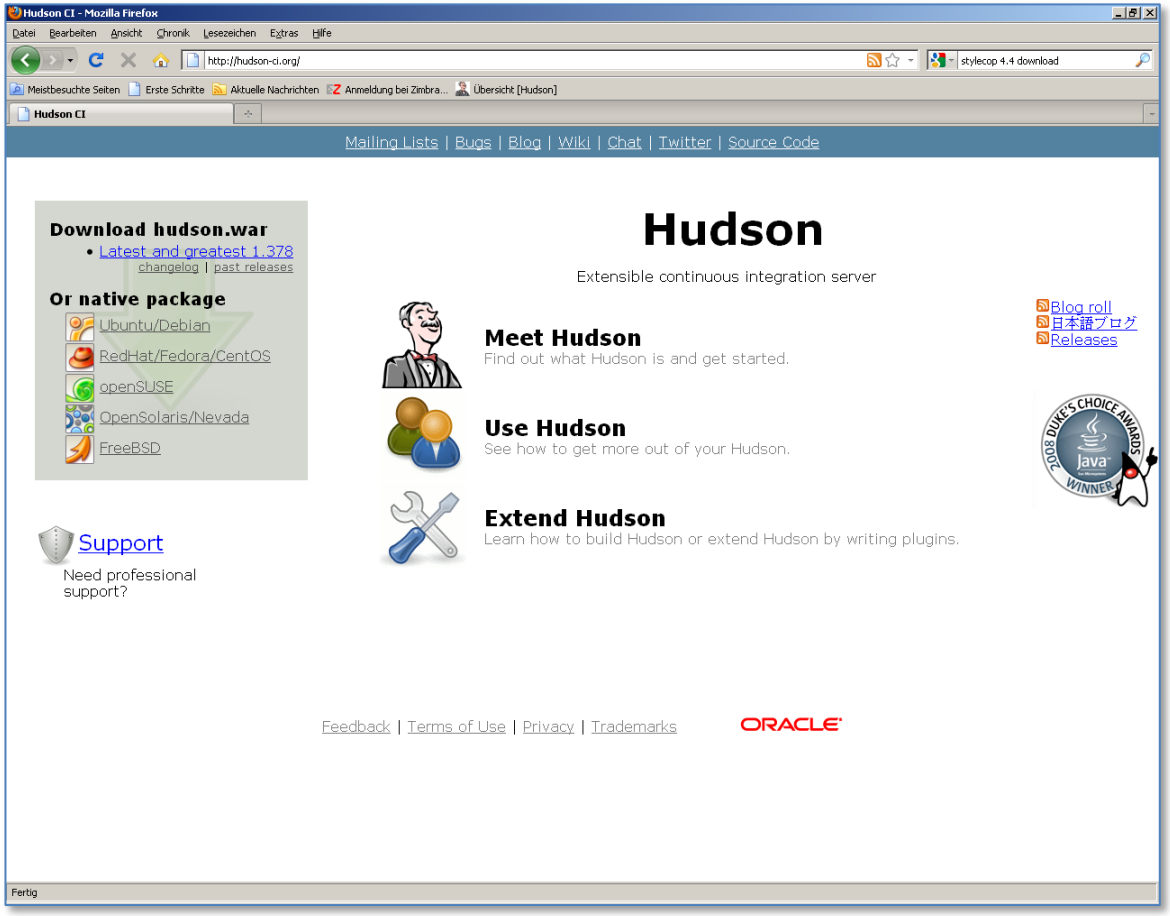
Software entwickeln im Team

http://martinfowler.com/articles/continuousIntegration.html

- Kontinuierliches Integrationswerkzeug
- http://www.hudson-ci.org/
- Frei verfügbar
- In Java implementiert
- Erweiterbar



- .Net Plugins

Update Center [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/pluginManager/installed

Hudson » Plugin Manager

Zurück zur Übersicht

Aktualisierungen | Verfügbar | **Installiert** | Erweiterte Einstellungen

Aktiviert	Name ↓	Version	Previously installed version	Pinned
☑	Hudson CVS Plug-in	1.2		
☑	Email-ext plugin This plugin is a replacement for Hudson's email publisher	2.6		
☑	HTML Publisher plugin This plugin publishes HTML reports.	0.4		
☑	Maven Integration plugin	1.379		
☑	Hudson NAnt Plugin This plugin is a NAnt Builder for building .NET projects.	1.4.1		
☑	NCover plugin This plugin publishes NCover coverage reports.	0.3		
☑	Hudson NUnit plugin This plugin transforms NUnit test reports so they can be recorded by Hudson's JUnit features.	0.10		
☑	Hudson Redmine plugin This plugin integrates Redmine project management into Hudson.	0.8		
☑	Hudson SSH Slaves plugin	0.13		
☑	Hudson Subversion Plug-in	1.17		
☑	Hudson ViewVC plugin This plugin integrates ViewVC browser interface for CVS and Subversion to Hudson. Entries in change logs will by hyperlinked to the specified files/diffs in ViewVC.	1.3		
☑	Hudson Violations plugin This plugin does reports on checkstyle, pmd, cpd, fxcop, pylint, jcReport, and findbugs violations.	0.7.6		

Erzeugung dieser Seite: 05.10.2010 22:17:02 Hudson ver. 1.379

Suchen: nunit Abwärts Aufwärts Hervorheben Groß-/Kleinschreibung Ausdruck nicht gefunden

gearconf
Software entwickeln im Team

- Source Code Management konfigurieren

Attributes4Entities Nightly Build Config [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/configure

Build-Verlauf (Trend)

#83 05.10.2010 21:36:12
#82 05.10.2010 00:01:47
#81 04.10.2010 00:01:47
#80 03.10.2010 00:01:47
#79 02.10.2010 00:01:47

0.8.1 or later

Projekt deaktivieren (Es werden keine weiteren Builds ausgeführt, bis das Projekt wieder reaktiviert wird.)

Parallele Builds ausführen, wenn notwendig (beta)

Erweiterte Projekteinstellungen

Erweitert...

Source-Code-Management

- Keines
- CVS
- Subversion

Module

Repository URL: http://svn.mathema.de/repository/public/trunk/Projekte/Attributes4Entities

Lokales Modulverzeichnis (optional)

Weiteres Modul hinzufügen...

Update-Kommando verwenden

Wenn angewählt, versucht Hudson - wann immer möglich - 'svn update' auszuführen, um den Build zu beschleunigen. Dieses bedeutet allerdings auch, daß Artefakte des vorangegangenen Builds zu Beginn des neuen Builds nicht entfernt werden.

Zurücksetzen (revert)

Wenn angewählt, führt Hudson "svn revert" vor dem Ausführen von "svn update" aus. Dies verlangsamt zwar den Buildprozess, verhindert aber, daß Dateien zwischen zwei Builds verändert werden.

Repository Browser: (Auto)

Erweitert...

#55 13.09.2010 00:01:11
#54 12.09.2010 00:01:11

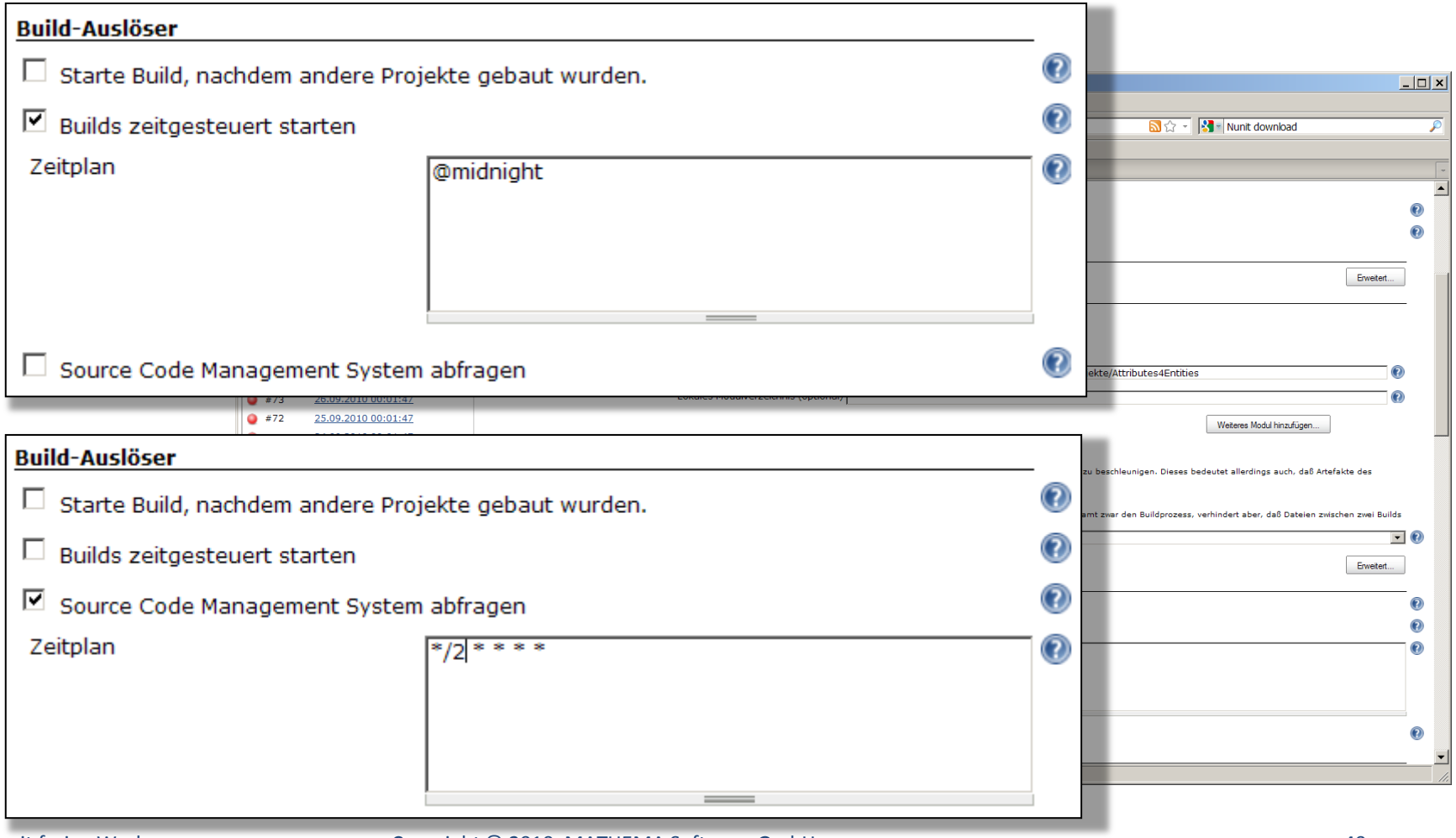
Source Code Management System abfragen

Buildverfahren

gearconf
Software entwickeln im Team

- Build Auslöser

nightly



SCM Abfrage
(CI-Build)

gearconf
Software entwickeln im Team

- NAnt in Hudson ausführen

Attributes4Entities Nightly Build Config [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/configure

Build-Verlauf (Trend)

#83 05.10.2010 21:36:12
#82 05.10.2010 00:01:47
#81 04.10.2010 00:01:47
#80 03.10.2010 00:01:47
#79 02.10.2010 00:01:47
#78 01.10.2010 00:01:47
#77 30.09.2010 00:01:47
#76 29.09.2010 00:01:47

0.8.1 or later
Projekt deaktivieren (Es werden keine weiteren Builds ausgeführt, bis das Projekt wieder reaktiviert wird.)
Parallele Builds ausführen, wenn notwendig (beta)

Erweiterte Projekteinstellungen

Source-Code-Management
Keines
CVS
Subversion

Buildverfahren

Execute NAnt build

NAnt Version: DEFAULT_NANT

Nant Build File: EF_Attributes\projects\nant.build

Targets: clean compile

Erweitert...

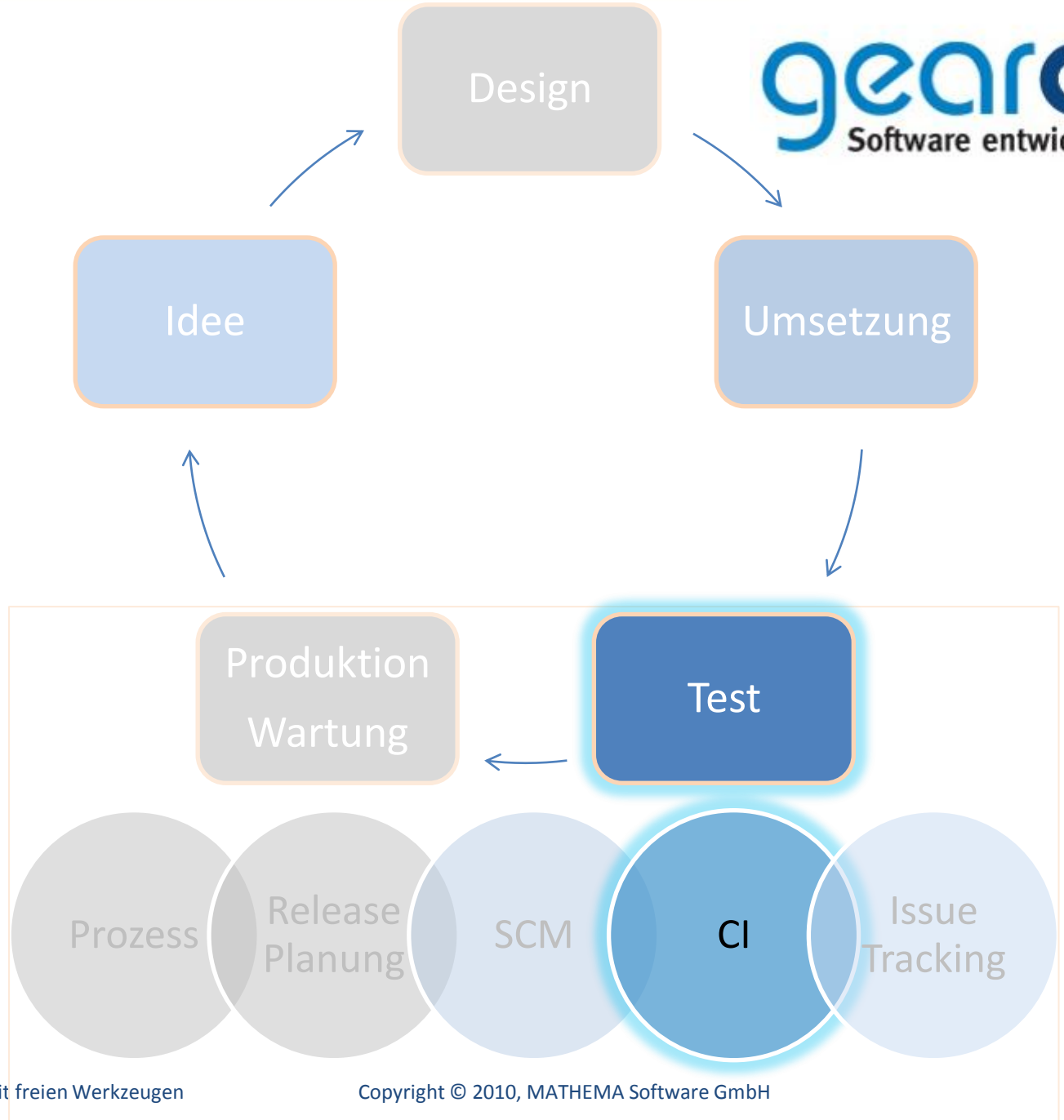
Löschen

#56 14.09.2010 00:01:11
#55 13.09.2010 00:01:11
#54 12.09.2010 00:01:11

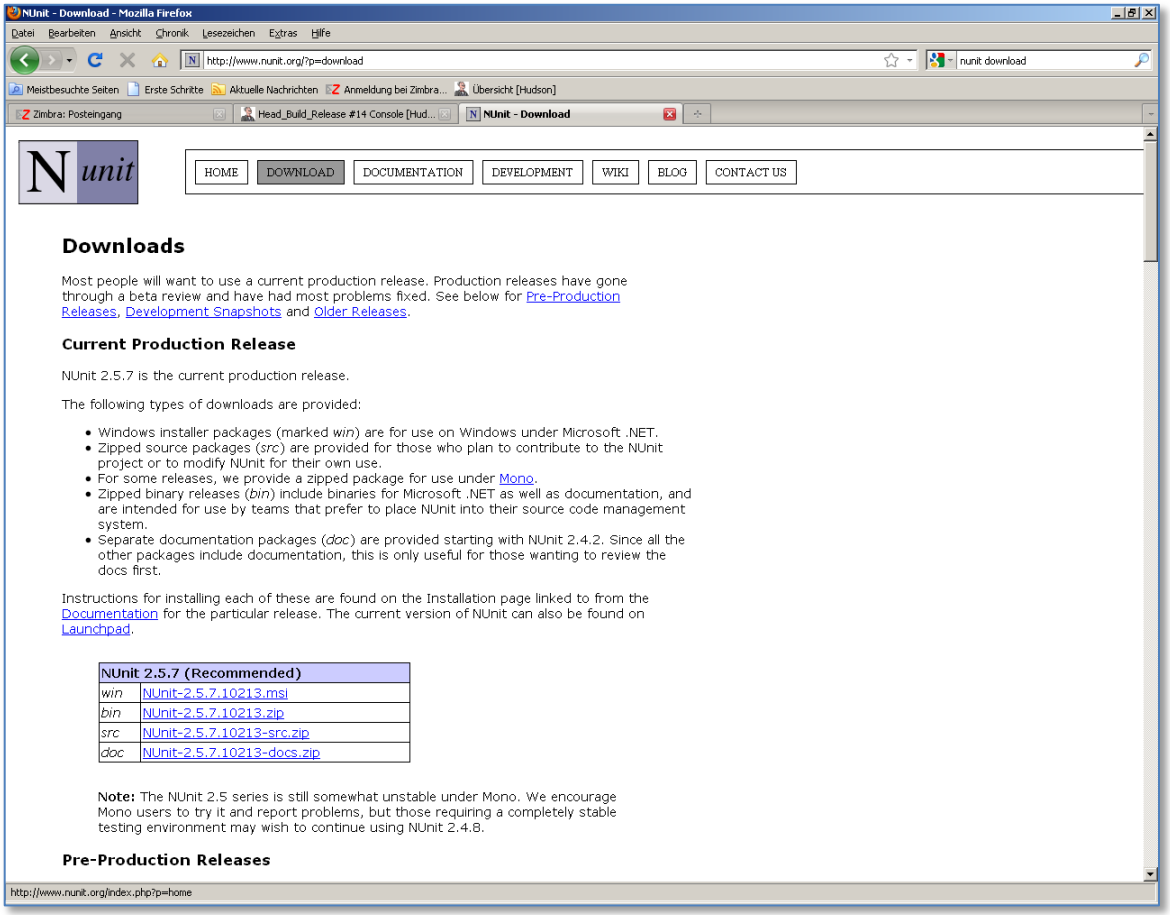
Source Code Management System abfragen

Buildverfahren

Motivation



- Nunit
- www.nunit.org
- Version 2.5.7
- Frei verfügbar



- Nunit Beispiel

```
using NUnit.Framework;

[TestFixture]
public class DemoTest {
    private IRechner rechner;

    [SetUp]
    public void Setup()  {
        rechner = new Rechner();
    }

    [TearDown]
    public void TearDown() {
       rechner = null;
    }
```

- Nunit Beispiel

```
using NUnit.Framework;

[TestFixture]
public class DemoTest {
   // …

   [Test]
   public void pruefeAddition() {
        Assert.AreEqual(4,                          // Erwartungswert
                        rechner.Addiere(1,3),   // OUT
                        "Das Additionsergebnis ist falsch ");
   }
```

- Nunit Beispiel

```
using NUnit.Framework;

[TestFixture]
public class DemoTest {
   // …

    [Test]
    public void pruefeDivisionDurchNull() {
        Assert.Throws<DivisionDurchNullException>(() => rechner.Dividiere(10,0));
    }
}
```

- Tests ausführen
  - Nunit.exe
  - Nunit-console.exe

EFAttributesTest.nunit - NUnit

File View Project Test Tools Help

Tests | Categories

C:\dev\dotNet\project\a4e\EF_Attributes\projects\EfAttributesTests\E
C:\dev\dotNet\project\a4e\EF_Attributes\projects\EfAttributesTest
De
Mathema
EntityFramework4
Attributes
EntityTest
TestAttribute
Configuration
ColumnAttributeTest
TestColumnLengthByteArrayProperty
TestColumnLengthStringProperty
TestColumnNameOfIdProperty
TestColumnUniCodeStringProperty
TestColumnWithEmpyNameProperty
TestColumnWithNameProperty
TestIllegalAccessToColumnNameOfProperty
TestNegativeColumnLengthByteArrayProperty
TestNegativeColumnLengthStringProperty
TestSimpleColumnProperty
EntityConfiguratorTest
CreateEntityDefinitionTest
CreateEntityDefinitionWithMappedTableName
LinqExpressionTest
checkExpression
TestLambdaForPropertyMapper
PropertyConfiguratorTest
TestEntityWithGeneratedValue
TestGeneratedValueAttribute
TestIdAttribute
TestInconsistentTransientAndColumnAttributeU
TestInconsistentTransientAndGeneratedValue
TestInconsistentTransientAndIdAttributeUsage
TestTransientAttribute
SimpleIntegrationTest
simpleTest

Run | Stop | TestColumnUniCodeStringProperty

Passed: 18 Failed: 3 Errors: 1 Inconclusive: 0 Invalid: 0 Ignored

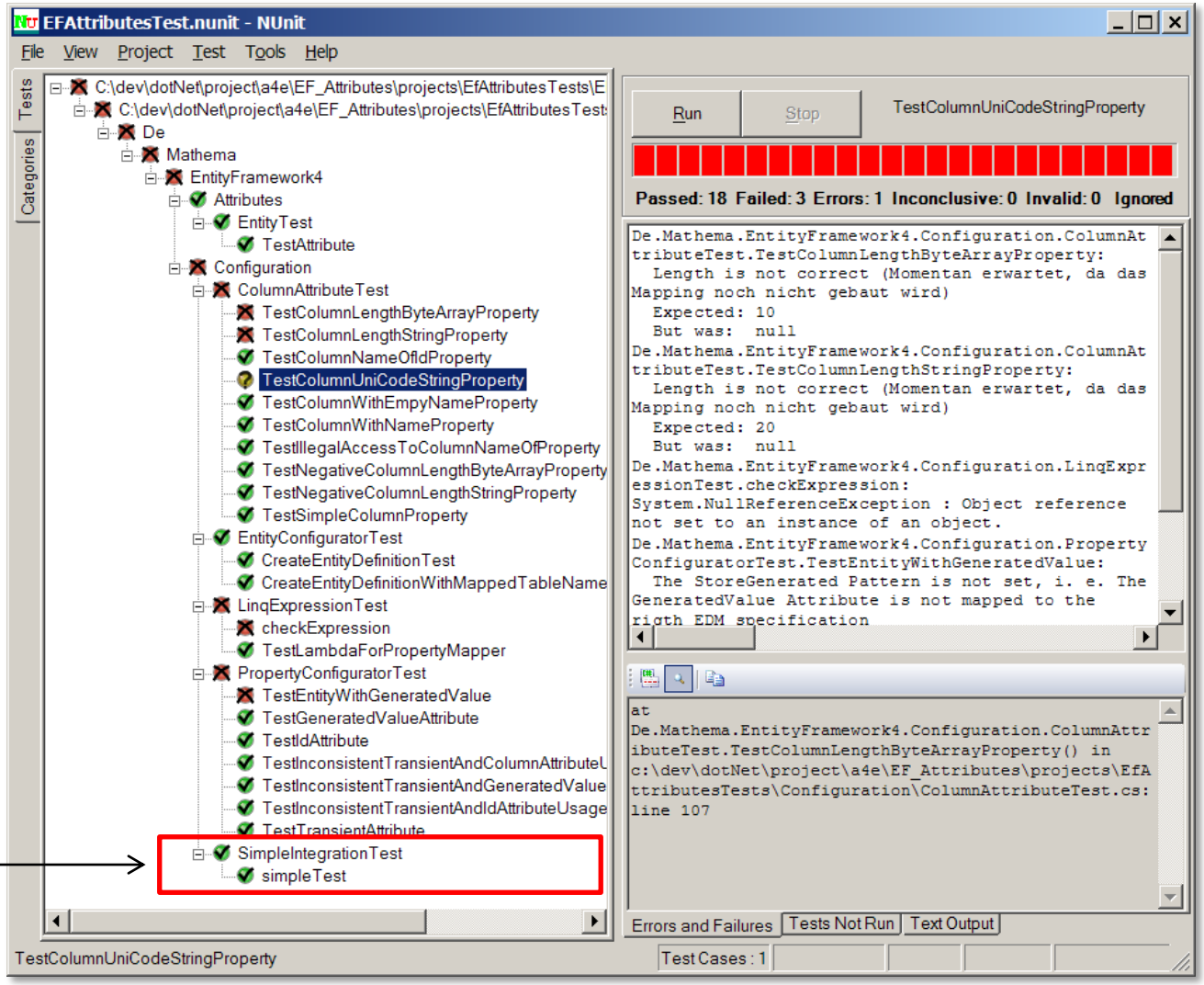
```
De.Mathema.EntityFramework4.Configuration.ColumnAt
tributeTest.TestColumnLengthByteArrayProperty:
  Length is not correct (Momentan erwartet, da das
Mapping noch nicht gebaut wird)
  Expected: 10
  But was:  null
De.Mathema.EntityFramework4.Configuration.ColumnAt
tributeTest.TestColumnLengthStringProperty:
  Length is not correct (Momentan erwartet, da das
Mapping noch nicht gebaut wird)
  Expected: 20
  But was:  null
De.Mathema.EntityFramework4.Configuration.LinqExpr
essionTest.checkExpression:
System.NullReferenceException : Object reference
not set to an instance of an object.
De.Mathema.EntityFramework4.Configuration.Property
ConfiguratorTest.TestEntityWithGeneratedValue:
  The StoreGenerated Pattern is not set, i. e. The
GeneratedValue Attribute is not mapped to the
rigth EDM specification
```

```
at
De.Mathema.EntityFramework4.Configuration.ColumnAttr
ibuteTest.TestColumnLengthByteArrayProperty() in
c:\dev\dotNet\project\a4e\EF_Attributes\projects\EfA
ttributesTests\Configuration\ColumnAttributeTest.cs:
line 107
```

Errors and Failures | Tests Not Run | Text Output

TestColumnUniCodeStringProperty | Test Cases : 1

- Tests ausführen
  - Nunit.exe
  - Nunit-console.exe



Integrationstest verwendet SQL Server 2008 R2 Express

gearconf
Software entwickeln im Team

- Nunit in NAnt ausführen
  - Nunit2 Target

```
<target name="test" depends="test">
  <nunit2>
    <formatter type="Plain" />
    <test>
      <assemblies basedir="${test.dir}">
        <include name="${basename}-test.dll" />
      </assemblies>
      <references refid="test.assemblies" />
    </test>
  </nunit2>
</target>
```

- Funktioniert nicht mit da Nunit 2.2.8 in NAnt

gearconf
Software entwickeln im Team

- Nunit in NAnt ausführen
  - exec-Variante

```
<target name="test" depends="compile">
  <exec program="${nunit-dir}/bin/net-2.0/nunit-console" failonerror="true"
        workingdir="${basedir}">
    <arg value="${NUnit.Projectfile}"/>
    <arg value="/labels"/>
    <arg value="/nologo"/>
    <arg value="/xml=../log/Nunit.xml"/>
  </exec>
</target>
```

gearconf
Software entwickeln im Team

- Nunit in Hudson veröffentlichen
  - Nunit Plugin notwendig

Attributes4Entities Nightly Build Config [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/configure

Nunit download

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

Attributes4Entities Nightly Buil... | Zimbra: Posteingang (18) | Attributes4Entities - MATHEMA... | Attributes4Entities Nightly...

Fingerabdrücke von Dateien aufzeichnen, um deren Verwendung zu verfolgen

Publish HTML reports

HTML directory to archive	Index page[s]	Report title	Keep past HTML reports	
Attributes4Entit	index.htm	Coverage Repor	☑	Löschen

Hinzufügen

Publisher NCover HTML report

Publish NUnit test result report

Test report XMLs: Attributes4Entities\EF_Attributes\projects\build\log*.xml

Fileset 'includes' setting that specifies the generated raw XML report files, such as 'myproject/target/test-reports/*.xml'. Basedir of the fileset is the workspace root.

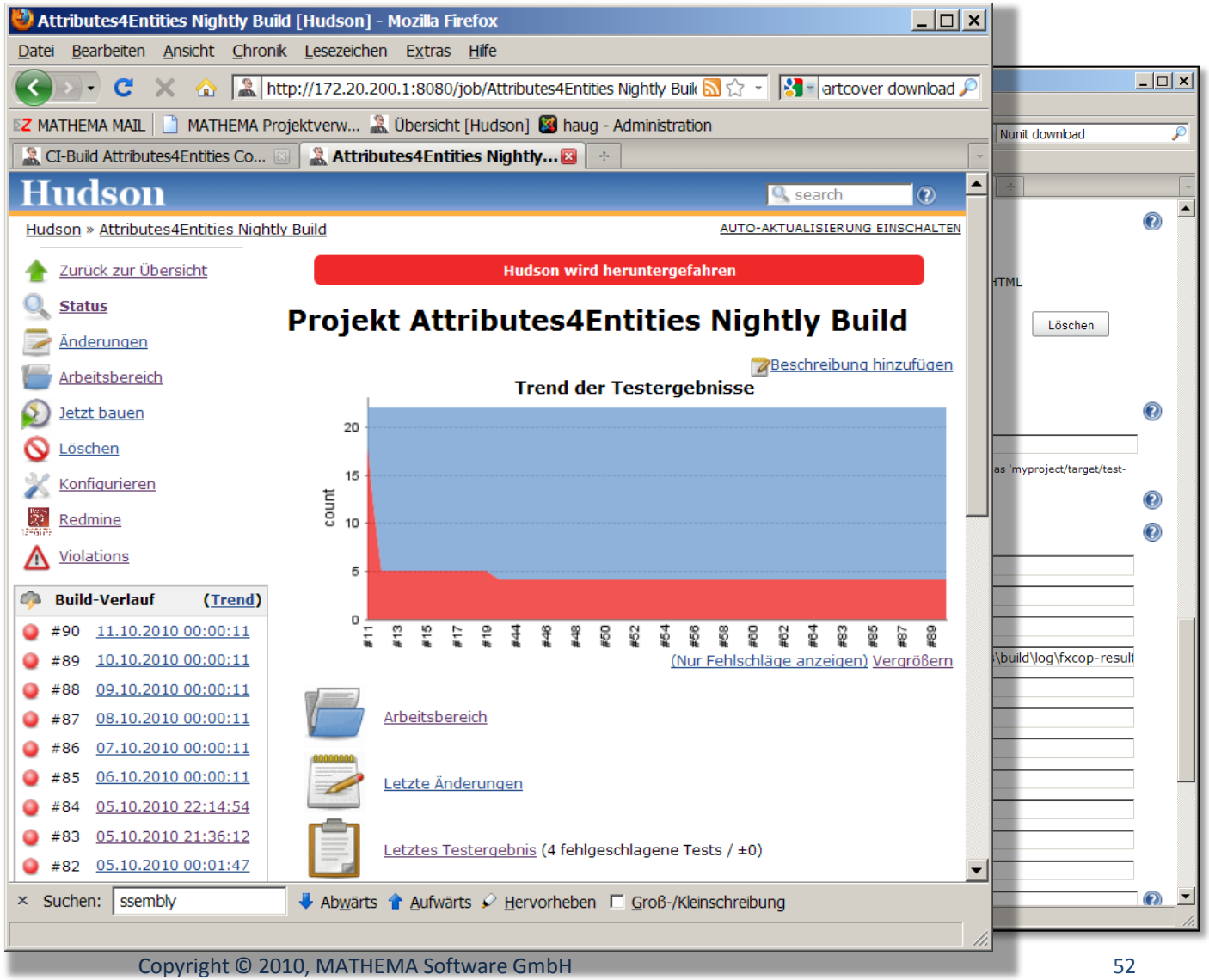
fxcop	10	999	999	Attributes4Entities\EF_Attributes\projects\build\log\fxcop-result
gendarme	10	999	999	
jcreport	10	999	999	
jslint	10	999	999	
pmd	10	999	999	
pylint	10	999	999	
simian	10	999	999	
stylecop	10	999	999	

Per file limit: 100

Fertig

gearconf
Software entwickeln im Team

- NUnit in Hudson
  - Auf Projekt Ebene ist der Trend gezeigt



gearconf
Software entwickeln im Team

- NUnit in Hudson
  - Auf Build Ebene die Tests

Attributes4Entities Nightly Build #90 Testergebnis [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/90/testReport/

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

CI-Build Attributes4Entities Co... | Attributes4Entities Nightly...

ntities Nightly Build » #90 » Testergebnis

AUTO-AKTUALISIERUNG EINSCHALTEN

Hudson wird heruntergefahren

Testergebnisse

[unformatiert]

Fehlschläge (±0)

Tests (±0)
Dauer: 13 Sekunden
Beschreibung hinzufügen

) diesen Build

Alle fehlgeschlagenen Tests

Testname	Dauer	Alter
>>> De.Mathema.EntityFramework4.Configuration.ColumnAttributeTest.TestColumnLengthByteArrayProperty	0.922	80
>>> De.Mathema.EntityFramework4.Configuration.ColumnAttributeTest.TestColumnLengthStringProperty	0.016	80
>>> De.Mathema.EntityFramework4.Configuration.LingExpressionTest.checkExpression	0.141	80
>>> De.Mathema.EntityFramework4.Configuration.PropertyConfiguratorTest.TestEntityWithGeneratedValue	0.016	80

Alle Tests

Package	Dauer	Fehlgeschlagen	(Diff.)	Übersprungen	(Diff.)	Summe	(Diff.)
De.Mathema.EntityFramework4.Attributes	47 ms	0		0		1	
De.Mathema.EntityFramework4.Configuration	13 Sekunden	4		0		21	

Erzeugung dieser Seite: 11.10.2010 23:33:13 Hudson ver. 1.379

Suchen: ssembly | Abwärts | Aufwärts | Hervorheben | Groß-/Kleinschreibung

Löschen

gearconf
Software entwickeln im Team

- NUnit in Hudson
  - Auf Klassen Ebene der Fehlschlag / die Fehlschäge

Attributes4Entities Nightly Build #90 test - TestColumnLengthByteArrayProperty [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/90/testReport/De.M

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

CI-Build Attributes4Entities Co... | Attributes4Entities Nightly...

Hudson

Hudson » Attributes4Entities Nightly Build » #90 » Testergebnis » De.Mathema.EntityFramework4.Configuration » ColumnAttributeTest » TestColumnLengthByteArrayProperty

AUTO-AKTUALISIERUNG EINSCHALTEN

- Zurück zum Job
- Status
- Änderungen
- Konsolenausgabe [unformatiert]
- Verlauf
- Markiere ("tagge") diesen Build
- Coverage Report
- Testergebnis
- Violations
- Vorheriger Build

Hudson wird heruntergefahren

Fehlschlag

De.Mathema.EntityFramework4.Configuration.ColumnAttributeTest.TestColumnLengthByteArrayProperty
(from ColumnAttributeTest)

Schlägt fehl seit 80 Builds (Seit #11)
Dauer: 0,92 Sekunden.
Beschreibung hinzufügen

Stacktrace

```
MESSAGE:
  Length is not correct (Momentan erwartet, da das Mapping noch nicht gebaut wird)
  Expected: 10
  But was:  null

+++++++++++++++++++
STACK TRACE:
bei
De.Mathema.EntityFramework4.Configuration.ColumnAttributeTest.TestColumnLengthByteArrayProperty()
in c:\dev\build\hudson\jobs\Attributes4Entities Nightly Build\workspace\Attributes4Entities
\EF_Attributes\projects\EfAttributesTests\Configuration\ColumnAttributeTest.cs:Zeile 107.
```

Erzeugung dieser Seite: 11.10.2010 23:35:48 Hudson ver. 1.379

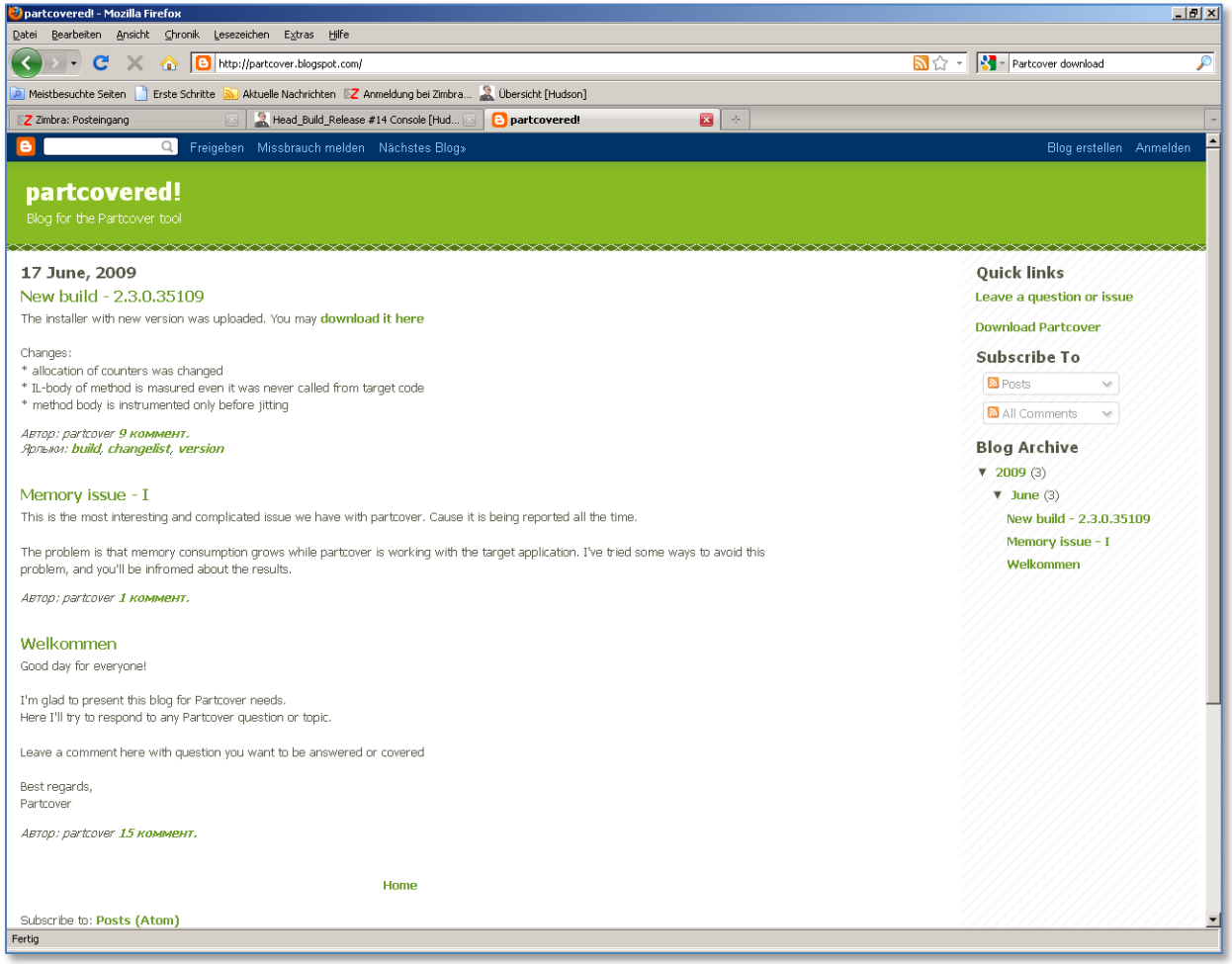
Suchen: ssembly | Abwärts | Aufwärts | Hervorheben | Groß-/Kleinschreibung

Abdeckung prüfen

partcovered!

gearconf
Software entwickeln im Team

- PartCover
- partcover.blogspot.com
- Frei verfügbar
- Hinweis: Dokumentation ist sehr rudimentär



Abdeckung prüfen

partcovered!

gearconf
Software entwickeln im Team

- PartCover in Nant aufführen

```
<target name="coverage" depends="test">
  <exec program="${partcover}\partcover.exe" failonerror="false">
    <arg value="--target &quot;${nunit-dir}/bin/net-2.0/nunit-console.exe&quot;" />
    <arg value="--target-work-dir &quot;${test.dir}&quot;"/>
    <arg value="--target-args &quot;${basename}-test.dll  /labels
                /xml=../log/Nunit.xml&quot;" />
    <arg value="--include &quot;[${basename}]*&quot;" />
    <arg value="--output &quot;partcover-results.xml&quot;" />
  </exec>

  <!-- Ergebnisse publizieren  nächste Folie -->

</target>
```

Abdeckung prüfen

partcovered!

gearconf
Software entwickeln im Team

- PartCover in Nant aufführen

```
<target name="coverage" depends="test">
  <exec program="${partcover}\partcover.exe" failonerror="false">
    ...
  </exec>

  <exec program="${reportgenerator-dir}\bin\ReportGenerator.exe"
          failonerror="false">
    <arg value="&quot;partcover-results.xml&quot;" />
    <arg value="&quot;${log.dir}\coverage-report&quot;" />
  </exec>
</target>
```

Abdeckung prüfen

partcovered!

gearconf
Software entwickeln im Team

- PartCover Ergebnisse in Hudson veröffentlichen
  - Report generator plugin notwendig

Attributes4Entities Nightly Build Config [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/configure

Fingerabdrücke von Dateien aufzeichnen, um deren Verwendung zu verfolgen

Publish HTML reports

HTML directory to archive	Index page[s]	Report title	Keep past HTML reports
Attributes4Entit	index.htm	Coverage Repor	☑

Löschen

Hinzufügen

Publisher NCover HTML report

Publish NUnit test result report

Publish HTML reports

HTML directory to archive	Index page[s]	Report title	Keep past HTML reports
Attributes4Entitie	index.htm	Coverage Report	☑

Löschen

Hinzufügen

fxcop	10	999	999	Attributes4Entities\EF_Attributes\projects\build\log\fxcop-result
gendarme	10	999	999	
jcreport	10	999	999	
jslint	10	999	999	
pmd	10	999	999	
pylint	10	999	999	
simian	10	999	999	
stylecop	10	999	999	
Per file limit	100			

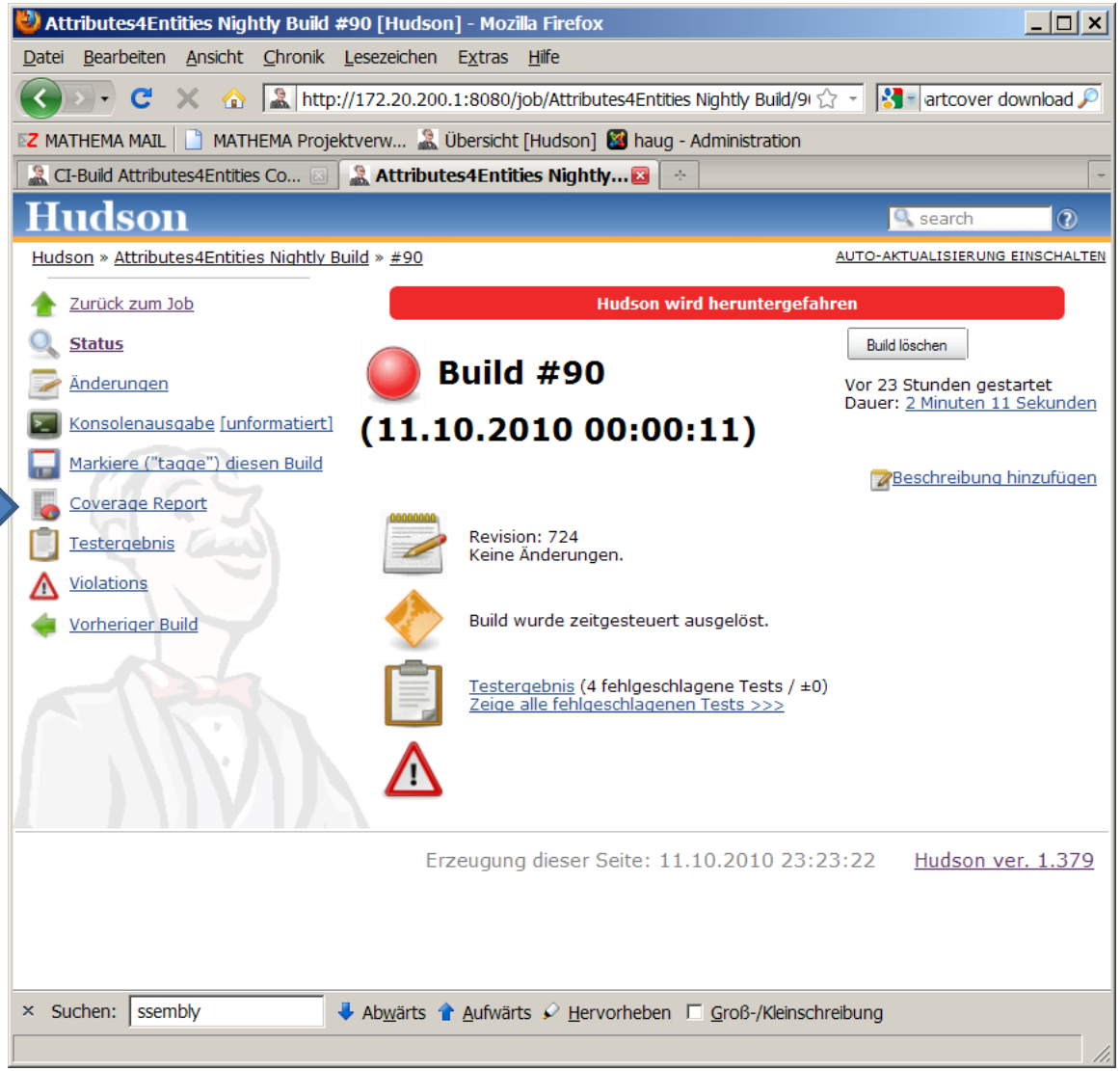
Fertig

Abdeckung prüfen

partcovered!

gearconf
Software entwickeln im Team

- PartCover Ergebnisse in Hudson



Abdeckung prüfen

partcovered!

gearconf
Software entwickeln im Team

- PartCover Ergebnisse in Hudson

Attributes4Entities Nightly Build #90 [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/9

artcover download

Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/81/Coverage_Report/?

Nunit download

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

http://172.20...rage_Report/?

Summary

Generated on:	04.10.2010 - 00:03
Parser:	PartCover23Parser
Assemblies:	1
Files:	11
Coverage:	91,3 %
Covered lines:	503
Coverable lines:	551
Total lines:	1341

Assemblies

Attributes4Entities	91,3 %
De.Mathema.EntityFramework4.Attributes.ColumnAttribute	100 %
De.Mathema.EntityFramework4.Attributes.EntityAttribute	0 %
De.Mathema.EntityFramework4.Attributes.GeneratedValueAttribute	0 %
De.Mathema.EntityFramework4.Attributes.IdAttribute	0 %
De.Mathema.EntityFramework4.Attributes.TransientAttribute	0 %
De.Mathema.EntityFramework4.Configuration.ConfigurationException	100 %
De.Mathema.EntityFramework4.Configuration.Configurator`1	0 %
De.Mathema.EntityFramework4.Configuration.Definition.EntityDefinition	74,2 %
De.Mathema.EntityFramework4.Configuration.Definition.PropertyDefinition	85,7 %
De.Mathema.EntityFramework4.Configuration.Definition.PropertyMapperEmitter	100 %
De.Mathema.EntityFramework4.Configuration.EntityConfigurator	94,4 %
De.Mathema.EntityFramework4.Configuration.EntityMapper	94,5 %

search

AUTO-AKTUALISIERUNG EINSCHALTEN

Build löschen

Vor 23 Stunden gestartet
Dauer: 2 Minuten 11 Sekunden

Beschreibung hinzufügen

23:22 Hudson ver. 1.379

Abdeckung prüfen

partcovered!

gearconf
Software entwickeln im Team

- PartCover Ergebnisse in Hudson

Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/81/Coverage_Report/?

Nunit download

Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/90/Coverage_Repc

artcover download

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

CI-Build Attributes4Entities Co... | http://172.2...ge_Report/?

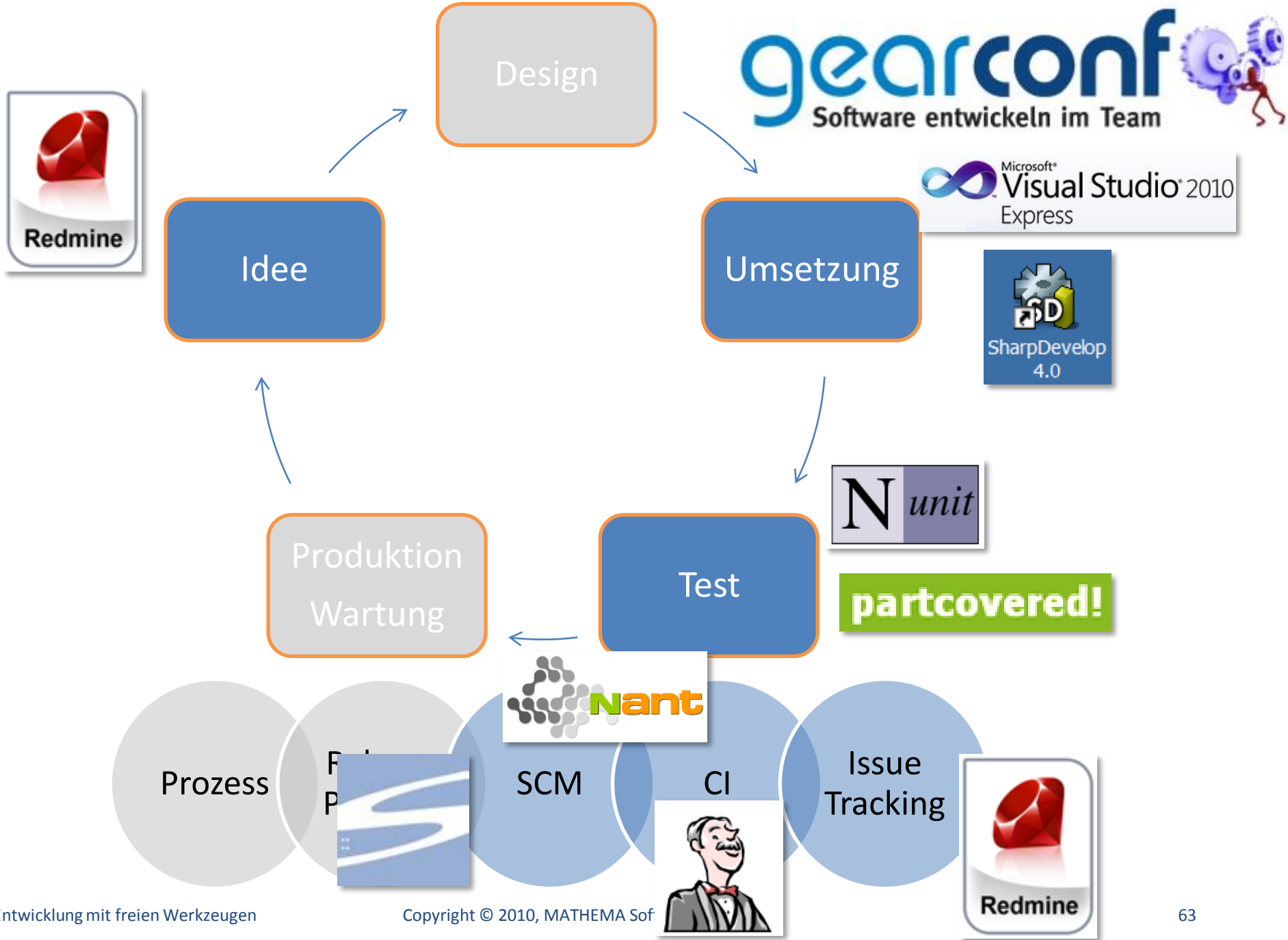
Back to Attributes4Entities Nightly Build | index

```
   2  using System.Collections.Generic;
   3  using System.Linq;
   4  using System.Text;
   5
   6  namespace De.Mathema.EntityFramework4.Configuration.Definition
   7  {
   8      /// <summary>
   9      /// Instances of this class "describe" Enitity classes and how to map these to Database columns
  10      /// </summary>
  11      public class EntityDefinition
  12      {
  13          private string tableName;
  14          public string TableName
  15          {
  16              get
3 17              {
3 18                  return tableName;
3 19              }
  20              set
4 21              {
4 22                  if (value == null)
0 23                  {
0 24                      throw new ArgumentNullException("TableName property must not be null");
  25                  }
4 26                  tableName = value;
```

Agenda

- Motivation
- Werkzeuge
- Zusammenfassung

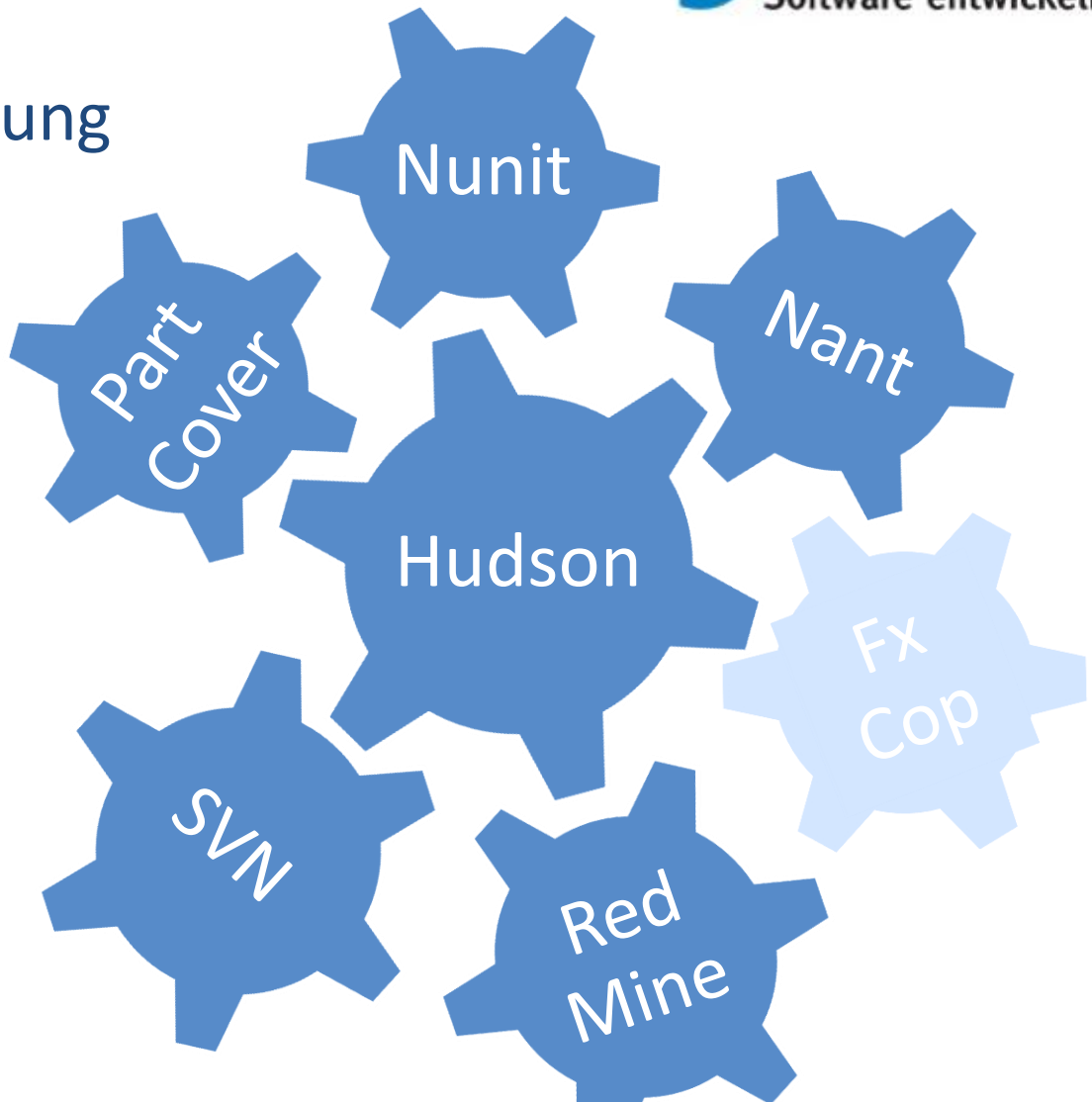
Zusammenfassung



Zusammenfassung

gearconf
Software entwickeln im Team

- Zusammenfassung



Zusammenfassung

gearconf
Software entwickeln im Team

- Was fehlt
  - Statische Code Analyse mit Style Cop
  - Metriken
- Wunschliste
  - Gated Checkins
  - Bessere IDEs (Refactoring, Unit-Testing)

Foto: pixelio.de - Olaf Rendler

gearconf
Software entwickeln im Team

Vielen Dank

Thomas Haug

Thomas.Haug@mathema.de

gearconf
Software entwickeln im Team

- FXCop

Microsoft FxCop - My FxCop Project [C:\dev\dotNet\project\a4e\EF_Attributes\projects\EFAttributesRules.FxCop]

File Edit Project Tools Windows Help

Analyze

Targets | Rules

- My FxCop Project
  - Design Rules
  - Globalization Rules
  - Interoperability Rules
  - Mobility Rules
  - Naming Rules
  - Performance Rules
  - Portability Rules
  - Security Rules
  - Security Transparency Rules
  - Usage Rules

Active | Excluded In Project | Excluded In Source | Absent

Le...	Fix Category	Certainty	Rule	Item
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Entities
	Breaking	50%	Avoid namespaces with few types	De.Mathema.EntityFramework4.Entities
	Breaking	75%	Identifiers should not contain type names	De.Mathema.EntityFramework4.Entities.Valid
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Entities.Valid
	Breaking	75%	Identifiers should not contain type names	De.Mathema.EntityFramework4.Entities.Valid
	Breaking	50%	Properties should not return arrays	De.Mathema.EntityFramework4.Entities.Valid
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Entities.Valid
	Breaking	75%	Identifiers should not contain type names	De.Mathema.EntityFramework4.Entities.Valid
	Breaking	50%	Properties should not return arrays	De.Mathema.EntityFramework4.Entities.Test
	Breaking	50%	Properties should not return arrays	De.Mathema.EntityFramework4.Entities.Test
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Attributes
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Configuration
	Breaking	90%	Static holder types should not have constructors	De.Mathema.EntityFramework4.Configuration.Refl
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Configuration.Refl
	Breaking	75%	Avoid unsealed attributes	De.Mathema.EntityFramework4.Attributes.Transie
	Breaking	75%	Avoid unsealed attributes	De.Mathema.EntityFramework4.Attributes.EntityA
	Breaking	75%	Avoid unsealed attributes	De.Mathema.EntityFramework4.Attributes.IdAttrib
	Breaking	75%	Avoid unsealed attributes	De.Mathema.EntityFramework4.Attributes.Column
	Breaking	75%	Avoid unsealed attributes	De.Mathema.EntityFramework4.Attributes.Generat
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Configuration.Defi
	Breaking	50%	Avoid namespaces with few types	De.Mathema.EntityFramework4.Configuration.Defi
	Breaking	50%	Properties should not return arrays	De.Mathema.EntityFramework4.Configuration.Defi
	Breaking	50%	Properties should not return arrays	De.Mathema.EntityFramework4.Configuration.Defi
	Depends on Fix	95%	Mark members as static	De.Mathema.EntityFramework4.Attributes.E
	Depends on Fix	95%	Review unused parameters	De.Mathema.EntityFramework4.Attributes.E
	Depends on Fix	95%	Review unused parameters	De.Mathema.EntityFramework4.Configuration.Defi
	Depends on Fix	95%	Review unused parameters	De.Mathema.EntityFramework4.Configuration.Defi
!	Non Breaking	95%	Assemblies should have valid strong names	attributes4entities-test.dll

Ready

```
.class De.Mathema.EntityFramework4.Entities.ValidTestEntity
{
    Attributes                    : Count == 1  (AttributeNodeCollection)
    {
        [De.Mathema.EntityFramework4.Attributes.EntityAttribute()]
    }
    BaseClass                     : System.Object  (ClassNode)
    BaseType                      : System.Object  (TypeNode)
    ConsolidatedTemplateArguments : <null>  (TypeNodeCollection)
    ConsolidatedTemplateParameters : <null>  (TypeNodeCollection)
```

Output | Properties

- FXCop

Microsoft FxCop - My FxCop Project [C:\dev\dotNet\project\a4e\EF_Attributes\projects\EFAttributesRules.FxCop]

File Edit Project Tools Windows Help

Analyze

Targets | Rules

- Attributes4Entities-test.dll
  - {}
  - {} De.Mathema.EntityFramework4.Attributes
  - {} De.Mathema.EntityFramework4.Configura
  - {} De.Mathema.EntityFramework4.Entities
    - SimpleValidTestEntity
    - TestContext
    - TestEntity
    - ValidTestEntity
      - ValidTestEntity()
      - boolProperty : bool
      - FullColumnDefinitionProperty : string
      - Id : long
      - intProperty : int
      - LongProperty : long
      - SimpleColumnProperty : string
      - SparseColumnDefinitionProperty : b
      - TransientProperty : string
      - <boolProperty>k__BackingField : b
      - <FullColumnDefinitionProperty>k__

Active | Excluded In Project | Excluded In Source | Absent

Le...	Fix Category	Certainty	Rule	Item
	Breaking	75%	Identifiers should not contain type names	De.Mathema.EntityFramework4.Entities.ValidTestEn
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Entities.ValidTestEn
	Breaking	75%	Identifiers should not contain type names	De.Mathema.EntityFramework4.Entities.ValidTestEn
	Breaking	50%	Properties should not return arrays	De.Mathema.EntityFramework4.Entities.ValidTestEn
	Breaking	85%	Identifiers should be cased correctly	De.Mathema.EntityFramework4.Entities.ValidTestEn
	Breaking	75%	Identifiers should not contain type names	De.Mathema.EntityFramework4.Entities.ValidTestEn

1 message(s) selected

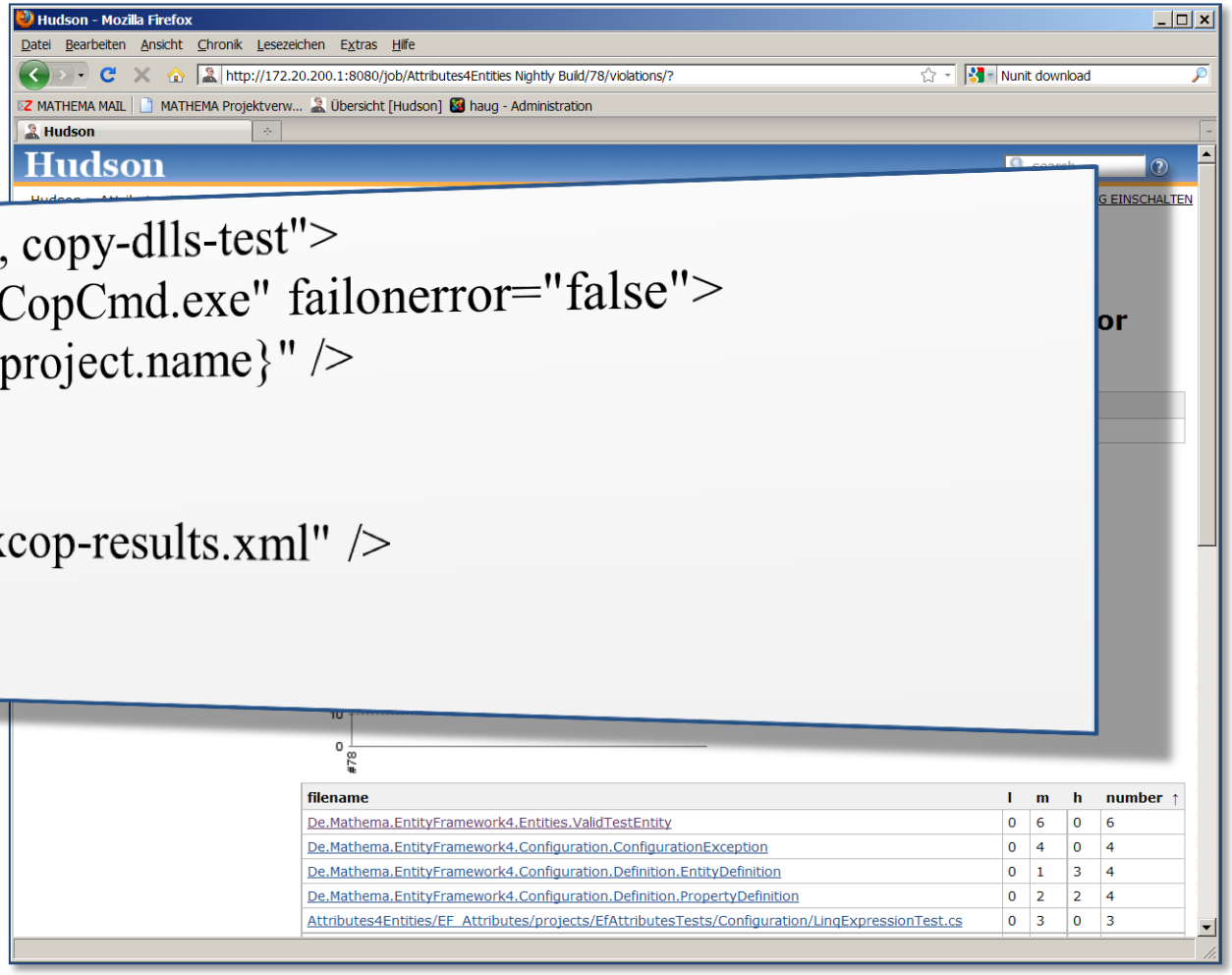
```
Warning, Certainty 50, for PropertiesShouldNotReturnArrays
{
    Target        : #SparseColumnDefinitionProperty  (IntrospectionAccessorizedTargetMember)
    Resolution    : "Change 'ValidTestEntity.SparseColumnDefinitionProperty'
                    to return a collection or make it a method."
    Help          : http://msdn.microsoft.com/library/0fss9skc(VS.100).aspx  (String)
    Category      : Microsoft.Performance  (String)
    CheckId       : CA1819  (String)
    RuleFile      : Performance Rules  (String)
    Info          : "Properties that return arrays are prone to code inefficiencies.
                    Consider using a collection or making this a method.
                     See the design guidelines for more information."
    Created       : 05.10.2010 11:27:56  (DateTime)
    LastSeen      : 05.10.2010 11:27:56  (DateTime)
    Status        : Active  (MessageStatus)
    Fix Category  : Breaking  (FixCategories)
}
```

Output | Properties

gearconf
Software entwickeln im Team

- FXCop in Hudson ausführen

```
<target name="fxcop" depends="test, copy-dlls-test">
    <exec program="${fxcop-dir}\FxCopCmd.exe" failonerror="false">
        <arg value="/project:${fxcop.project.name}" />
        <arg value="/forceoutput" />
        <arg value="/summary" />
        <arg value="/out:${log.dir}/fxcop-results.xml" />
    </exec>
</target>
```



gearconf
Software entwickeln im Team

- FxCop in Hudson
  - Ergebnisse mit Violations Plugin veröffentlichen

Hudson - Mozilla Firefox

Attributes4Entities Nightly Build Config [Hudson] - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/configure

Fingerabdrücke von Dateien aufzeichnen, um deren Verwendung zu verfolgen

Publish HTML reports

HTML directory to archive	Index page[s]	Report title	Keep past HTML reports
Attributes4Entit	index.htm	Coverage Repor	☑

Löschen

Hinzufügen

Publisher NCover HTML report

Publish NUnit test result report

Test report XMLs: Attributes4Entities\EF_Attributes\projects\build\log*.xml

Fileset 'includes' setting that specifies the generated raw XML report files, such as 'myproject/target/test-reports/*.xml'. Basedir of the fileset is the workspace root.

Report Violations

				XML filename pattern
checkstyle	10	999	999	
cpd	10	999	999	
findbugs	10	999	999	
fxcop	10	999	999	Attributes4Entities\EF_Attributes\projects\build\log\fxcop-result
gendarme	10	999	999	
jcreport	10	999	999	
jslint	10	999	999	
pmd	10	999	999	
pylint	10	999	999	
simian	10	999	999	
stylecop	10	999	999	

Per file limit: 100

Fertig

gearconf
Software entwickeln im Team

- Überblick

Hudson - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/78/violations/?

Nunit download

MATHEMA MAIL | MATHEMA Projektverw... | Übersicht [Hudson] | haug - Administration

Hudson

Hudson » Attributes4Entities Nightly Build » #78

AUTO-AKTUALISIERUNG EINSCHALTEN

- Zurück zum Job
- Status
- Änderungen
- Konsolenausgabe [unformatiert]
- Markiere ("tagge") diesen Build
- Coverage Report
- Violations
- Vorheriger Build
- Nachfolgender Build

Violations Report

/job/Attributes4Entities%20Nightly%20Build/78 for build 78

Type	Violations	Files in violation
fxcop	64	33

fxcop

filename	l	m	h	number ↑
De.Mathema.EntityFramework4.Entities.ValidTestEntity	0	6	0	6
De.Mathema.EntityFramework4.Configuration.ConfigurationException	0	4	0	4
De.Mathema.EntityFramework4.Configuration.Definition.EntityDefinition	0	1	3	4
De.Mathema.EntityFramework4.Configuration.Definition.PropertyDefinition	0	2	2	4
Attributes4Entities/EF_Attributes/projects/EfAttributesTests/Configuration/LinqExpressionTest.cs	0	3	0	3

gearconf
Software entwickeln im Team

- Klassendetails

Hudson - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/78/violations/file/De.Mathema.

Nunit download

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Hudson

search

es4Entities Nightly Build » #78

AUTO-AKTUALISIERUNG EINSCHALTEN

ob

abe [unformatiert]

gge") diesen Build

port

uild

r Build

De.Mathema.EntityFramework4.Entities.ValidTestEntity

fxcop	6 violations
0	IdentifiersShouldNotContainTypeNames - Consider replacing the language-specific data
0	IdentifiersShouldNotContainTypeNames - Consider replacing the language-specific data
0	IdentifiersShouldNotContainTypeNames - Consider replacing the language-specific data
0	IdentifiersShouldBeCasedCorrectly - Correct the casing of 'bool' in member name 'Valid
0	IdentifiersShouldBeCasedCorrectly - Correct the casing of 'int' in member name 'ValidTe
0	PropertiesShouldNotReturnArrays - Change 'ValidTestEntity.SparseColumnDefinitionProp

Erzeugung dieser Seite: 04.10.2010 22:55:45 Hudson ver. 1.369

- Klassendetails mit Erläuterung

Hudson - Mozilla Firefox

Datei Bearbeiten Ansicht Chronik Lesezeichen Extras Hilfe

http://172.20.200.1:8080/job/Attributes4Entities Nightly Build/78/violations/file/De.Mathema.

Nunit download

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Hudson

search

es4Entities Nightly Build » #78

AUTO-AKTUALISIERUNG EINSCHALTEN

ob

De.Mathema.EntityFramework4.Entities.ValidTestEntity

abe [unformatiert]

gge") diesen Build

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uild

r Build

fxcop	6 violations
0	IdentifiersShouldNotContainTypeNames - Consider replacing the language-specific data
0	
0	
0	
0	
0	

Severity	Medium High
Class	Naming#CA1720
Detail	Avoid using language-specific types name in parameters and members and data type identifiers in parameters. Types names might not be intuitive for all developers. It is recommended that you select a generic name, such as 'value', instead. If this is not sufficient, be sure to use the type name as it is defined in the .NET Framework Library and avoid language-specific type names completely. Some examples of C#-specific type names are 'float' (use 'Single' if a generic name is not sufficient), and 'ulong' (use 'UInt64' if a generic name is not sufficient).

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