

Office und .NET - zwei Welten wachsen zusammen mit VSTO 3.0



Ihr Referent



Lars Keller

Was lernen Sie hier nicht?

• W

The screenshot shows the Microsoft Office 2007 contact management interface. The main window is titled "Lars Keller - Kontakt". The ribbon includes "Kontakt", "Einfügen", and "Text formatieren". The contact details for Lars Keller are as follows:

- Name: Herr Lars Keller
- Firma: netcreate OHG
- Position: Geschäftsführer - Entwicklung/EDV
- Speichern unter: Keller, Lars
- Internet: E-Mail: Keller@netcreate.de; Website: http://www.netcreate.de
- Telefonnummern: Geschäftlich: +49 531 380802- 51
- Adressen: Geschäftlich: Mittelweg 94, 38106 Braunschweig

A business card image is displayed on the right side of the contact card. Below the contact details, there is a "Notizen" section. At the bottom of the window, a "FormRegion1" section contains a "BASTA108 - Demo" header and a table with contact statistics and attachments.

Stats	Attachments	Suche
Letzter Kontakt: 11.09.2008	07.09.2008 Kontakt Herr Lars Keller.vcf	<input type="text"/> <input type="button" value="Search"/>
Kontaktübersicht	11.09.2008 wichtige Daten NRW08.Präsentation.pdf	Results
insgesamt: 3		
ausgehend: 1		
empfangen: 2		

- Agenda

- I VSTO Grundlagen

- II Ribbon Customizing

- III Smart Tag

VSTO - Grundlagen

- IV Word Content Controls

- V VSTO Power Tools

- VI Outlook 2007

- VII Add-In Deployment

- VIII VSTO 4.0 Ausblick

VSTO Grundlagen

Einstieg:

- Visual Studio Tools for Office
 - .NET Wrapperklassen für Office–COM Add-Ins
- Entstehung von VSTO
 - PIA (Primary Interop Assemblies) für Office
 - Schicht zwischen Office und .NET
 - VSTO 1 für Office 2003
 - Erschien mit Visual Studio 2003
 - Eigene Runtime
 - Schicht zwischen PIAs und Visual Studio

VSTO Grundlagen

VS 2005

VSTO 2.0
Office 2003
.NET 2.0

Dokumentenzentrisch

Office 2003

Smart Tags
Action Pane

VSTO 2005 SE

VSTO 2.0 SE
Office 2003
.NET 2.0 / 3.0

Dokumentenzentrisch
Anwendungszentrisch

Visual Studio 2008

Add-Ins
Custom Task Pane
Ribbon Customizing

Anwendungszentrische

VS 2008

VSTO 3.0
Office 2007
.NET 3.5

Dokumentenzentrische
Anwendungszentrische

Office Produkte
.NET 3.5
Ribbon Designer
Outlook Form Region

Visual Studio 2005

Office 2003

VSTO 3.0

Office 2003

Office 2007

Office 2007

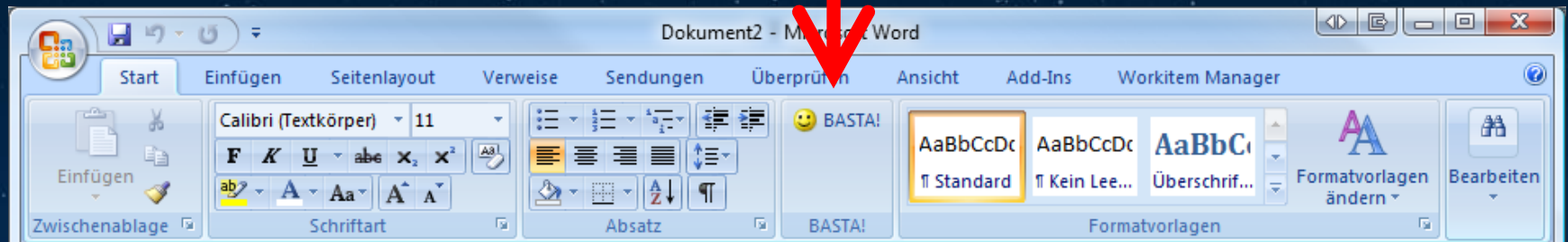
VSTO Grundlagen

COM Add-Ins:

- Natives COM Add-In
- .NET Shared COM Add-In
 - Nutzer-Spezifischer Speicherbereich (App Domain)
 - Schwaches Securitymodell
- .NET Isolated COM Add-In
 - Shim Loader
 - Starkes Securitymodell
 - CAS
 - Separate Konfiguration

Ribbon Customizing

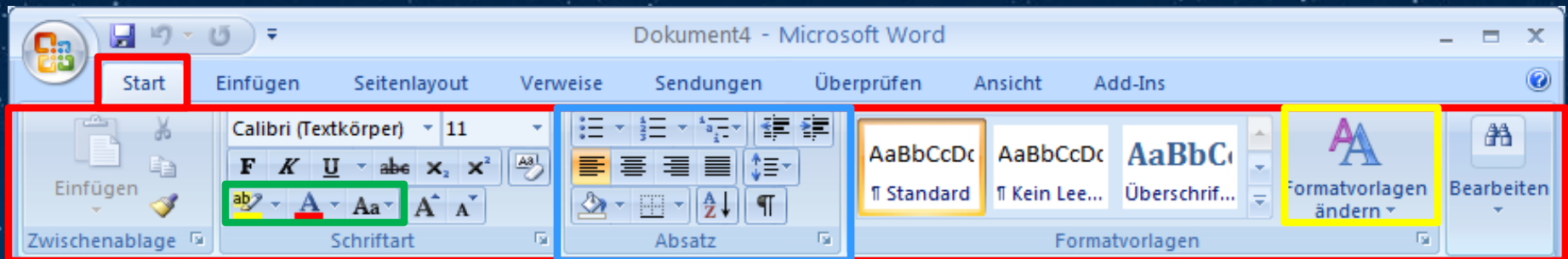
Ribbon Customizing



Ribbon Customizing

Ein Ribbon enthält:

- Tabs
- Groups
- Controls
- Controlgroups



Ribbon Customizing

IRibbonExtensibility Interface:

- GetCustomUI(String)

- Ribbon.xml

- Layout
- Callbacks

```
<customUI xmlns="http://schemas.microsoft.com/office/2006/01/customui"
  onLoad="OnLoad">
  <ribbon>
    <tabs>
      <tab idMso="TabReadMessage">
        <group id="Demo1"
          label="Demo">
          <button id="Button1"
            size="normal"
            imageMso="HappyFace"
            onAction="onPress"/>
          <toggleButton id="tButton"
            size="large"
            label="Toggle"
            onAction="onPressToggle"/>
        </group>
      </tab>
    </tabs>
  </ribbon>
</customUI>
```

Ribbon Customizing

III

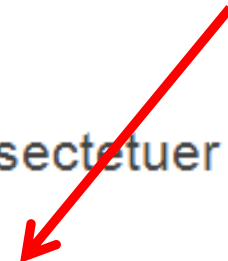
Smart Tag

Ribbon

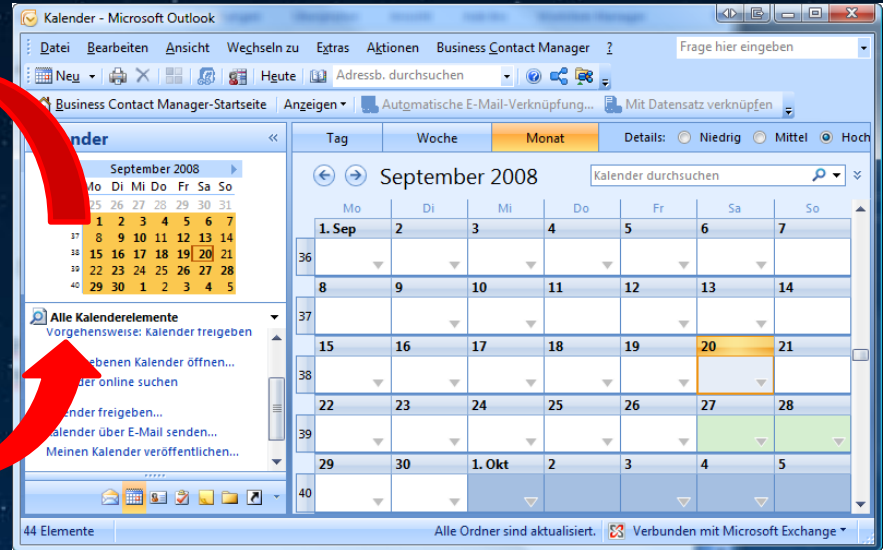
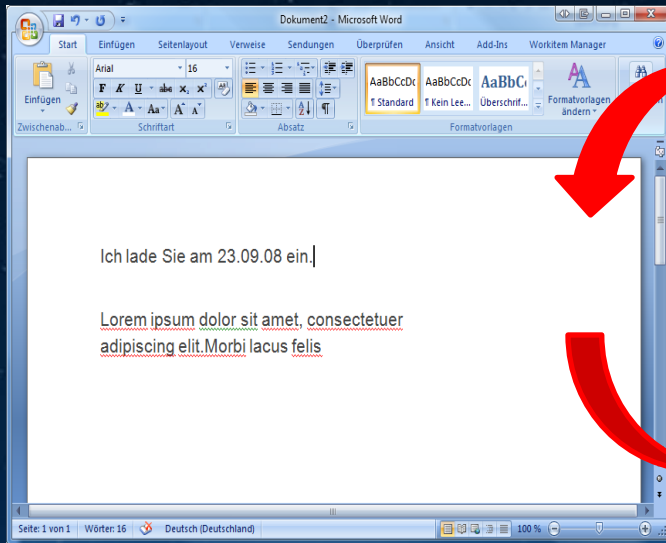
Smart Tag

- Was ist ein Smart Tag?

Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Morbi lacus felis



Smart Tag



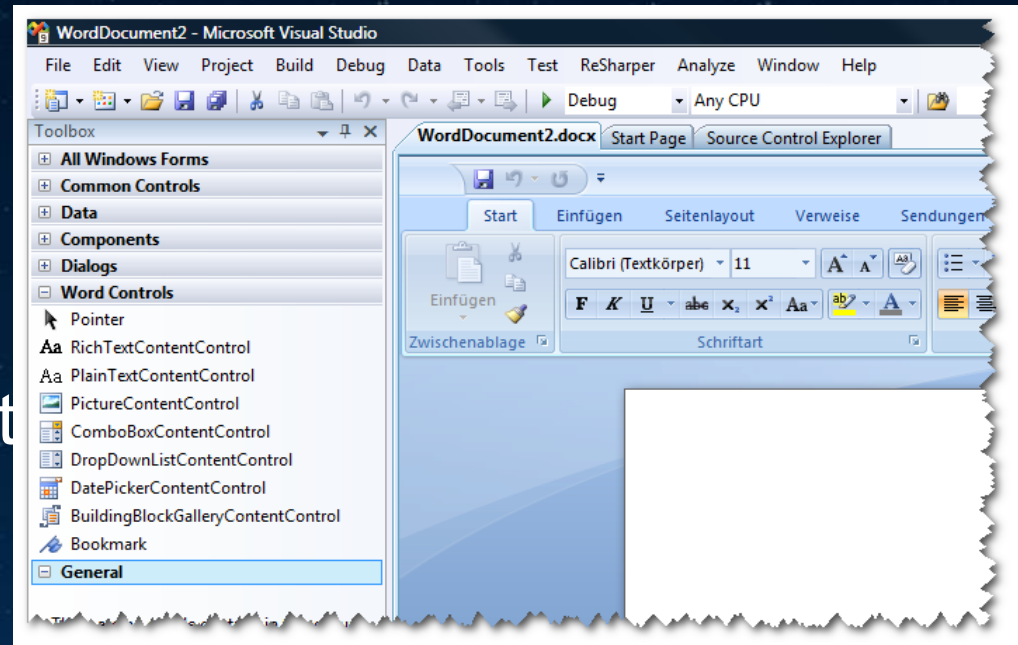
Das Datum 09.02.09 wird erkannt

Smart Tag

IV
Word Content Controls

Word Content Controls

- Struktur
- Controls:
 - DatePicker, Plain-, RichText, ComboBox, DropDownList, Bookmark, Picture
- Data-Binding
- LockContent & -Control



Word Content Controls

V
DEMO
VSTO Power Tools
Word Content
Controls

VSTO Power Tools

- VSTO_PTRibbonIDs.exe
- VSTO_PTExtLibs.exe
- VSTO_PT.exe
- VSTOA Power Tools.docx

- Download:
<http://www.microsoft.com/downloads/details.aspx?FamilyId=46B6BF86-E35D-4870-B214-4D7B72B02BF9&displaylang=en>

VSTO Power Tools

- Die Power Tools beinhalten:
 - Open XML Package Editor
 - Ribbon IDs Tool Window
 - Office Custom UI Manager
 - Office Interop API Extensions
 - VSTO Developer Cleaner
 - VSTO Troubleshooter
 - ...

VSTO Power Tools

- Extension-Beispiel:

```
// Using the standard PIAs:  
object fileName = "Foo.html";  
object missing = Type.Missing;  
object saveFormat = Word.WdSaveFormat.wdFormatHTML;  
doc.SaveAs(ref fileName, ref missing, ref missing, ref missing, ref missing,  
ref missing, ref missing, ref missing, ref missing, ref missing,  
ref missing, ref missing, ref missing, ref missing);  
  
// Using the Office Interop API extensions:  
doc.SaveAs("Foo.html", Word.WdSaveFormat.wdFormatHTML);
```

VI

Outlook 2007

Outlook 2007

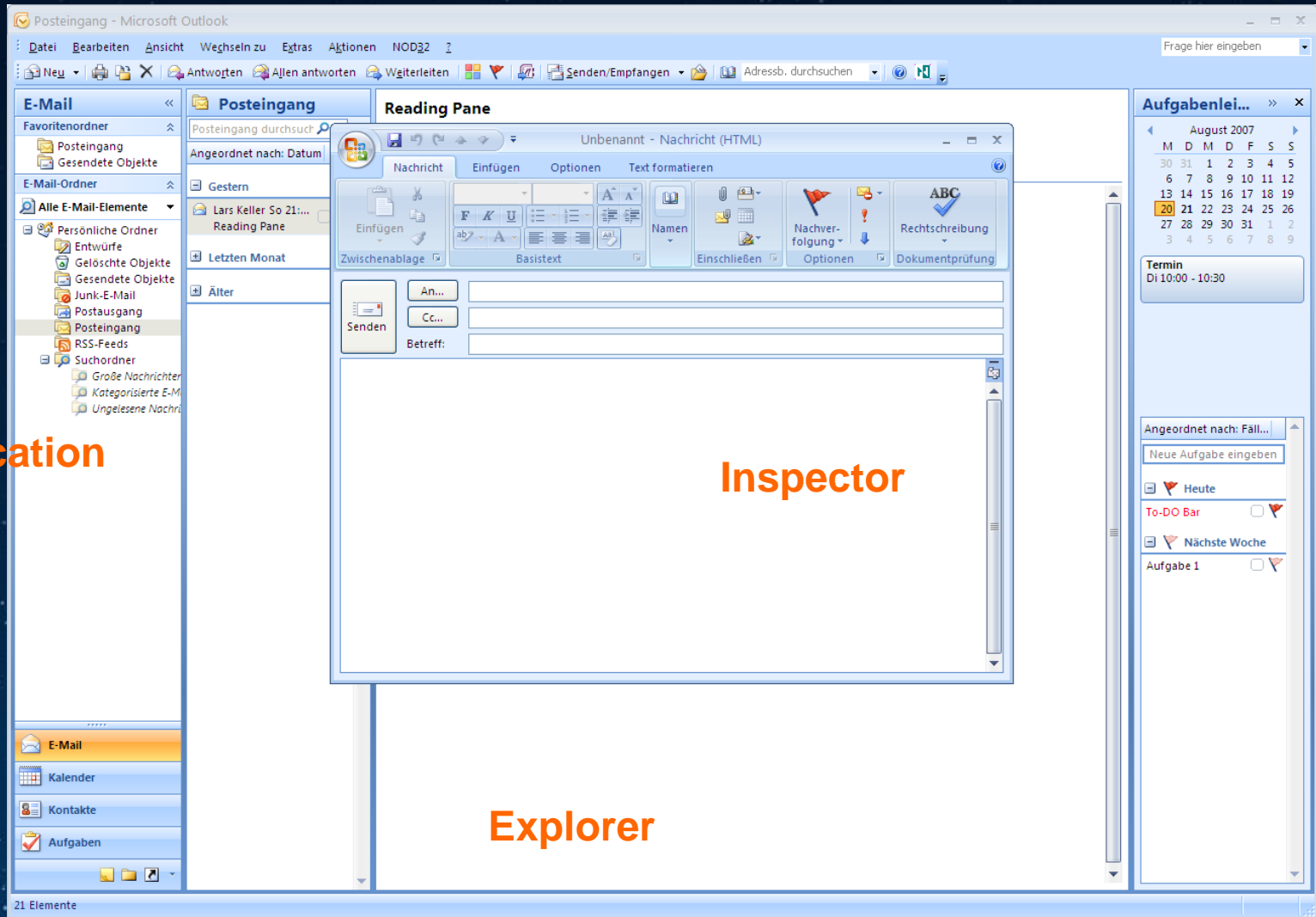
- Enthält mehr als 97 Objekte und 1700 Methoden und Eigenschaften
- Was ist neu in Outlook 2007?
 - Ribbon
 - Custom Form Regions
 - Security
 - Table Object
 - Context Customizing
 - Rules Object
 - Improved Search (WDS)
 - PropertyAccessor Object
 - ...

Outlook 2007

PropertyAccessor Object:

```
Outlook.PropertyAccessor oPA = item.PropertyAccessor;  
string SchemaTransportHeader =  
    @"http://schemas.microsoft.com/mapi/proptag/0x007D001E";  
string Transport = (string)oPA.GetProperty(SchemaTransportHeader);  
  
System.Windows.Forms.MessageBox.Show(Transport);
```

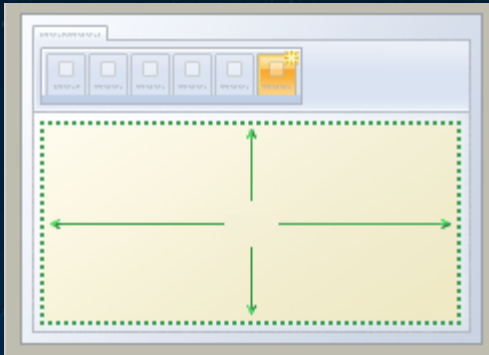
Outlook 2007



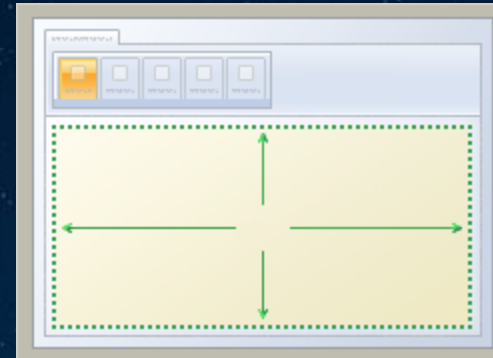
Outlook 2007

4 Custom Form Regionstypen:

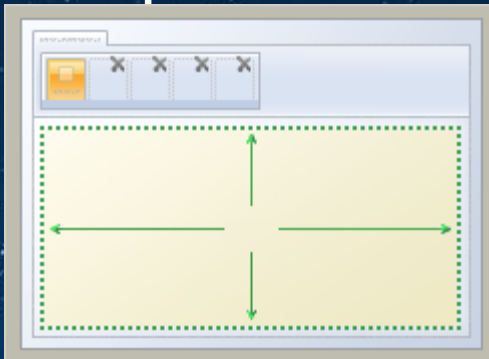
Separate



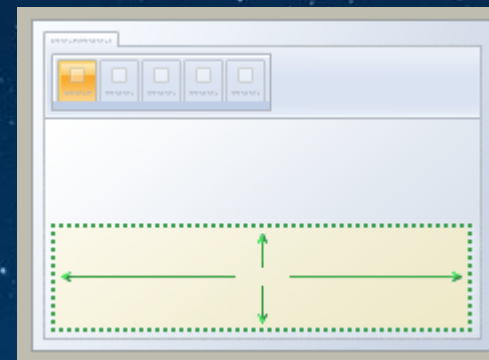
Replacement



Replace-all



Adjoining



Outlook 2007

VII Add-In Deployment

Outlook, WPF & LINQ

Add-In Deployment

Deployment:

– Voraussetzungen:

- Office 2007
- .NET Framework 3.5
- VSTO 3.0 Runtime
- PIA (Primary Interop Assemblies)

VIII

VSTO 4.0 Ausblick

– Verteilung:

- Über Add-In Installer (VS Installer) als MSI
- ClickOnce

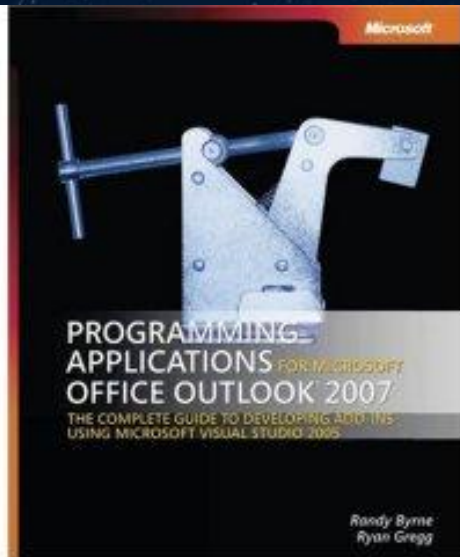
VSTO 4.0 Ausblick

- .NET 3.5 SP1: Smart Tags für alle
- ClickOnce: Multi-Project-Deployment
- ClickOnce: Post Deployment Custom Action
- C# 4.0 Features
 - Keine PIAs mehr
 - Optional Parameters

Links zur Office 2007 Entwicklung

- MSDN (What's New for Developers in Outlook 2007)
 - <http://msdn2.microsoft.com/en-us/library/ms406046.aspx>
- Webcasts von Daniel Moth
 - <http://www.danielmoth.com/Blog/2007/10/five-vsto-v30-in-vs2008-videos.html>
- Blog: Office Development with Visual Studio
 - <http://blogs.msdn.com/vsto/default.aspx>
- Blog: Andrew Whitechapel
 - <http://blogs.msdn.com/andreww/default.aspx>
- Blog: Jens Häupel (Developer Evangelist)
 - <http://blogs.msdn.com/jensha/>

Buch zur Outlook 2007 Entwicklung



Programming Applications for Microsoft® Office Outlook® 2007

von Randy Byrne (Autor)

Taschenbuch: 608 Seiten

Verlag: Microsoft Press Corp. (28. Februar 2007)

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Ihre Fragen



Noch Fragen?

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