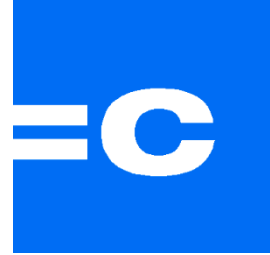


Creasoft Akademie

Windows 8 aus der Entwicklersicht



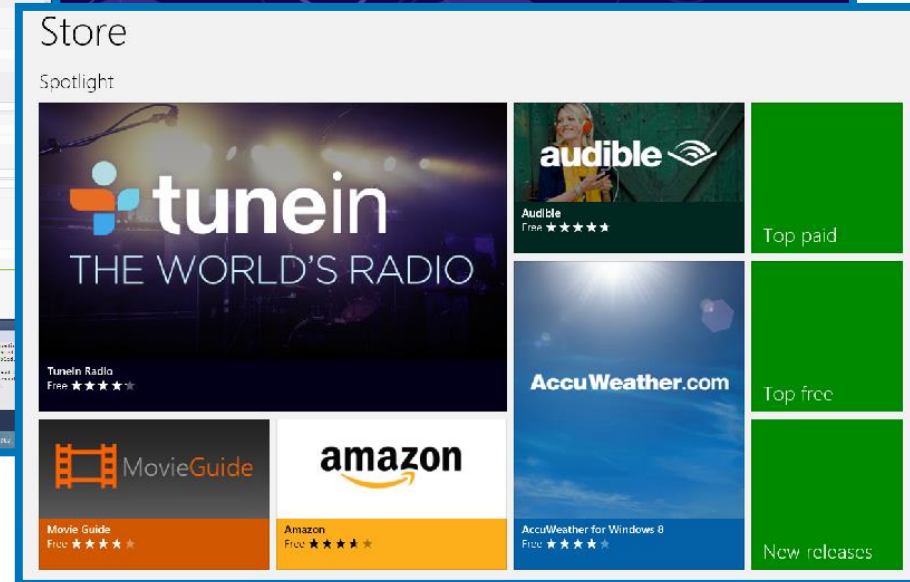
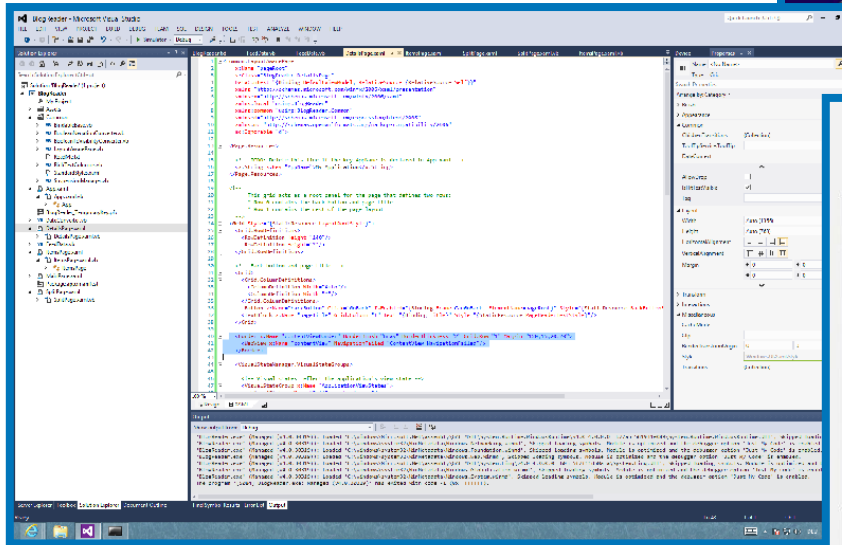
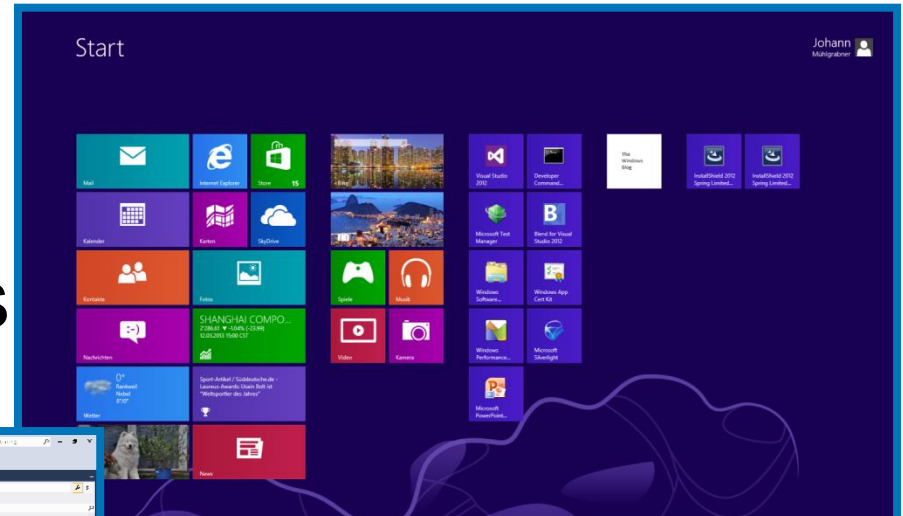
Johann Mühlgrabner

Software-Entwicklung

Themen



- Windows 8
- Visual Studio 2012
- Windows Store Apps



Neues von MS ?!



... wir erinnern uns an das Schicksal einiger neuer MS-Technologien:

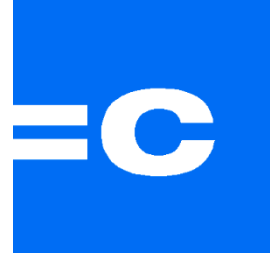
- LINQ to SQL (deprecated)
- WPF (Start ohne brauchbare Designer & Controls, deprecated ?)
- WCF (Performance, kein Ersatz für .NET Remoting)
- EF (noch nicht ganz fertig ? Vorgehensmodell praxisgerecht ?)
- BizTalk (diverse Versionen ohne Migrationspfad)
- Silverlight (großes Potential, deprecated)
- Risiko für Early Adopters

Win8: ein Paradigmenwechsel



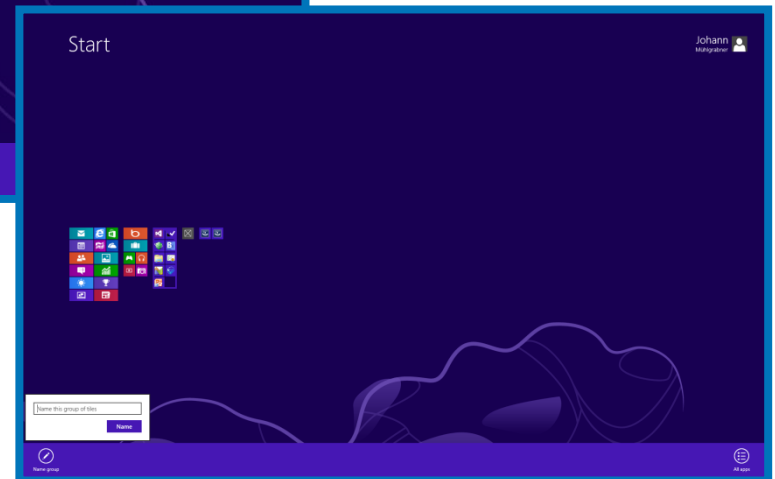
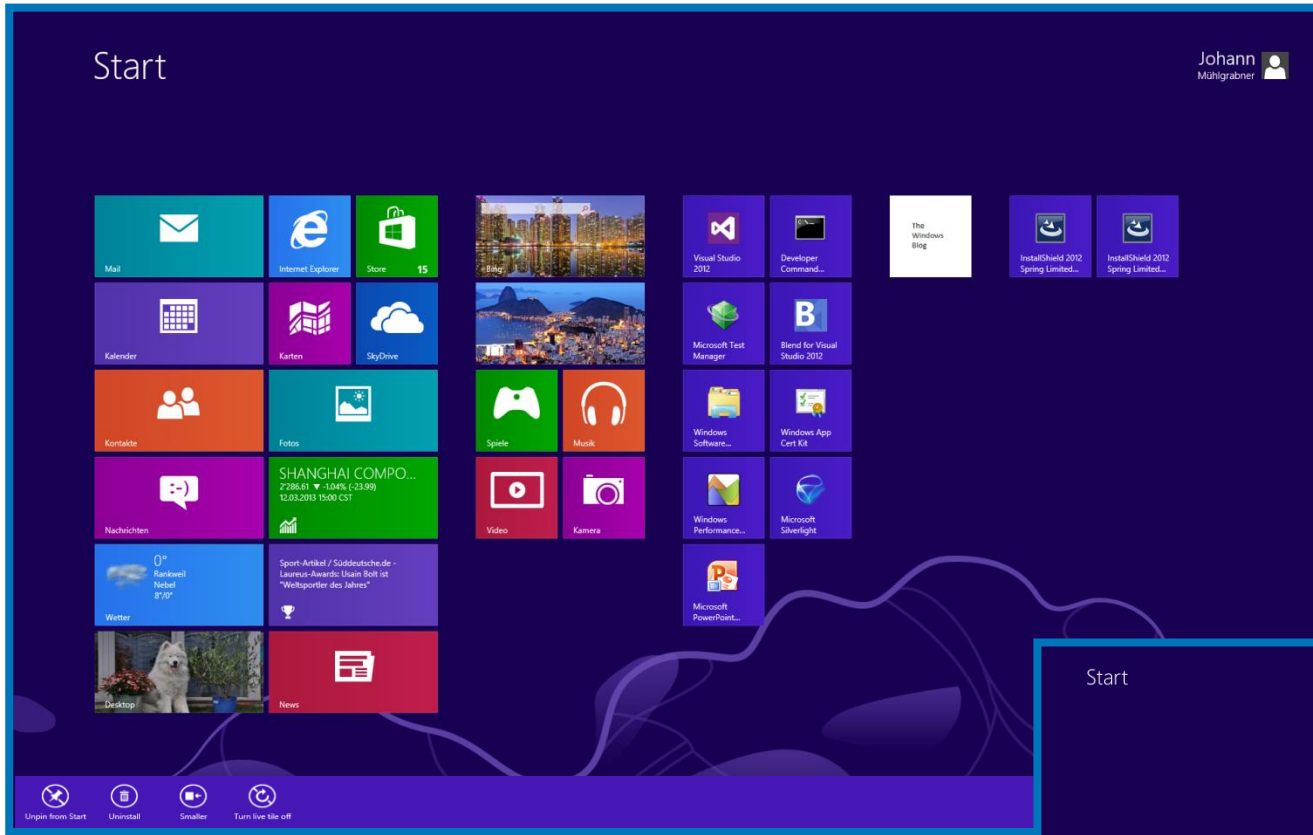
- (gelungener?) Versuch eines Zielgeräte-unabhängigen Betriebssystems mit einheitlicher User-Experience
- Neue Oberfläche und Bedienkonzept. Inkompatibel zu Windows Desktop-Anwendungen
- Verfügbarkeit des kompletten Ecosystems mit Produktstart

What's New in Windows 8

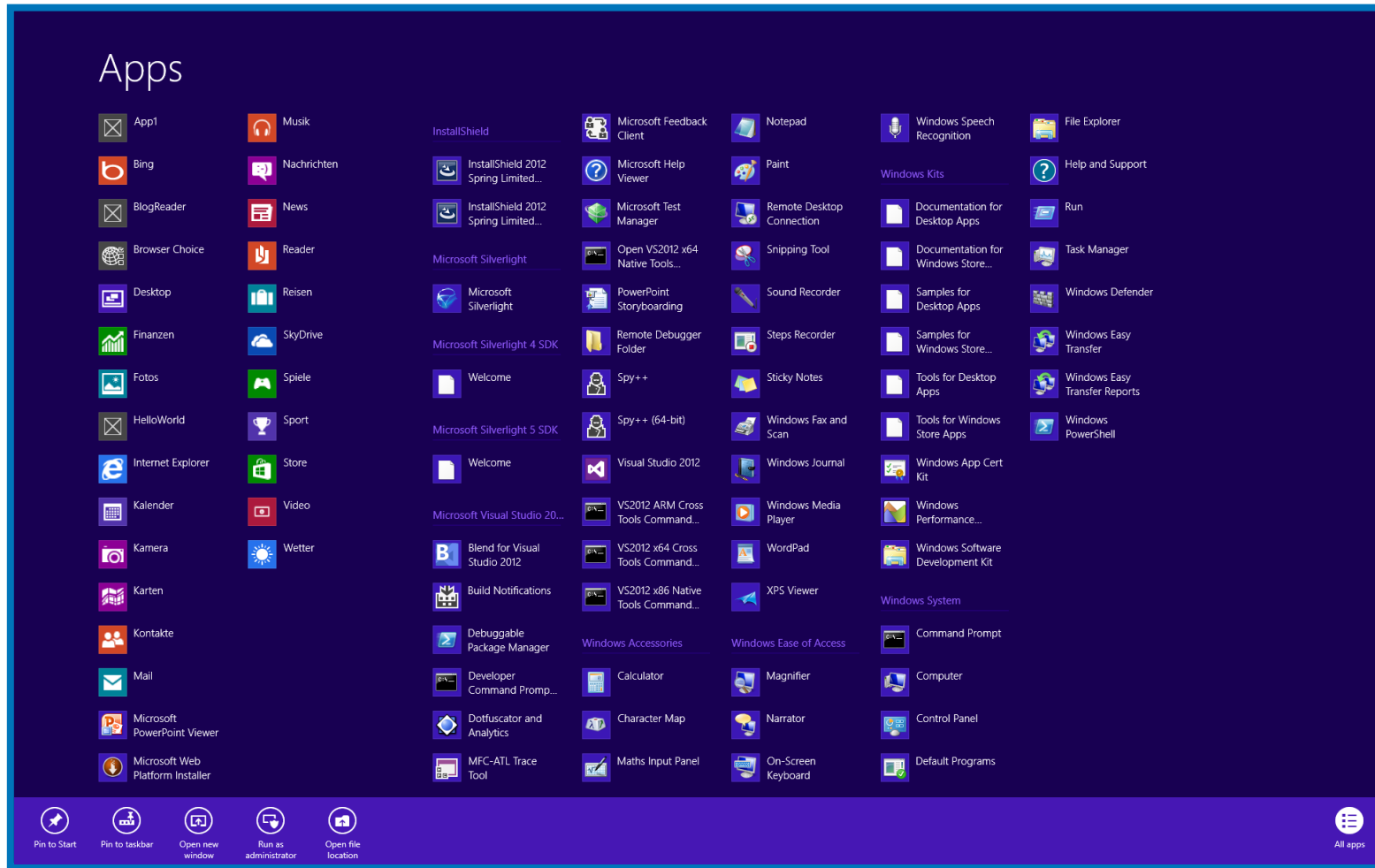
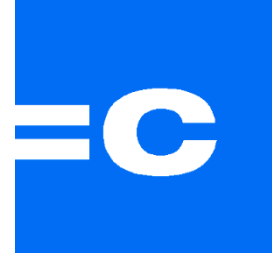


- Startscreen mit „Tiles“
- Desktop = Anwendung
- kein Start-Button
- kein Aero, flache Fenster, einfarbige Icons
- Steuerung mit „Gesten“, Maus, Shortcuts
- Multi-Screen Support (Taskbar, Wallpaper)
- Utilities (File Explorer, Task Manager, Suche)
- Windows-To-Go
- Windows Store Apps

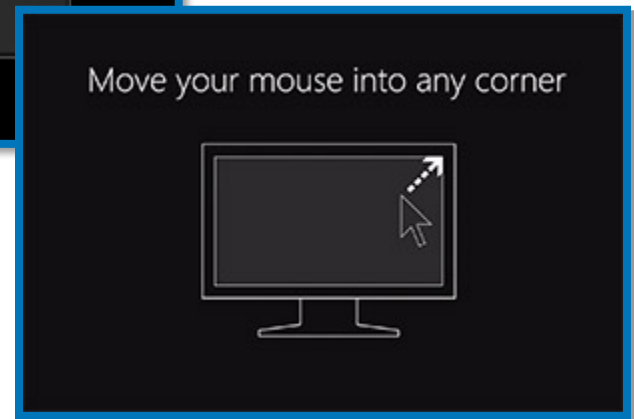
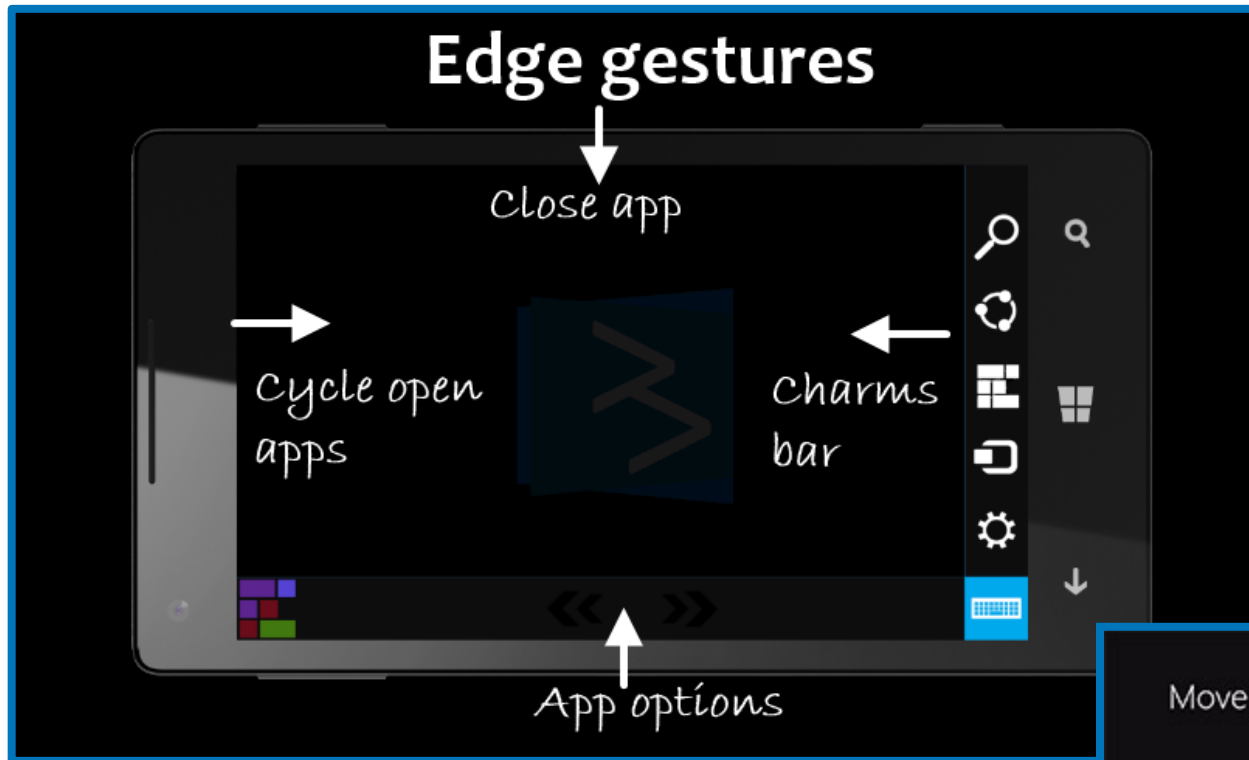
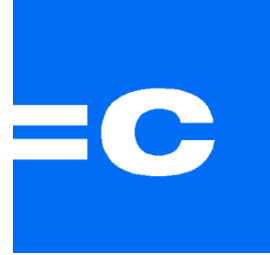
Startbildschirm



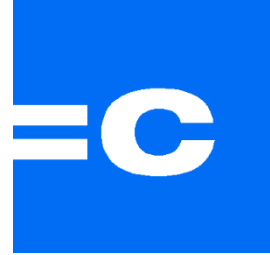
Programm-Menü



Gestures

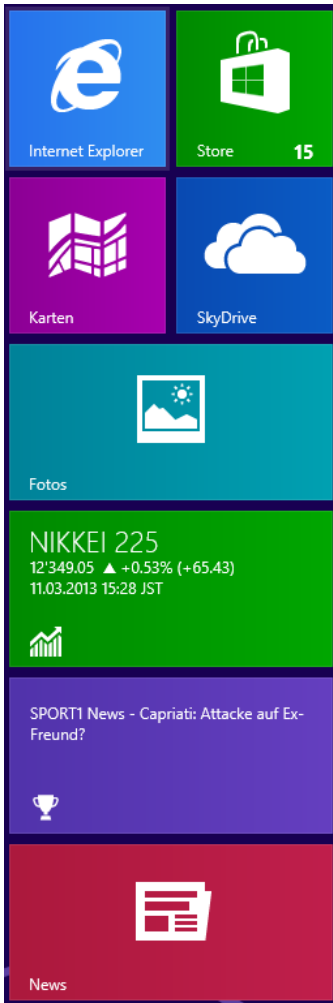
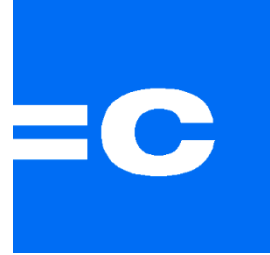


Shortcuts



- Windows: Startseite/letzte App
- Windows-D: Desktop anzeigen
- Windows-C: Charmsleiste anzeigen
- Windows-I: Dialog Einstellungen
- Windows-K: Dialog Geräte
- Windows-M: alle Apps minimieren
- Windows-Q: Suche
- Windows-R: Ausführen
- Windows-X: Options Menü
- Ctrl-F4: App beenden

Apps

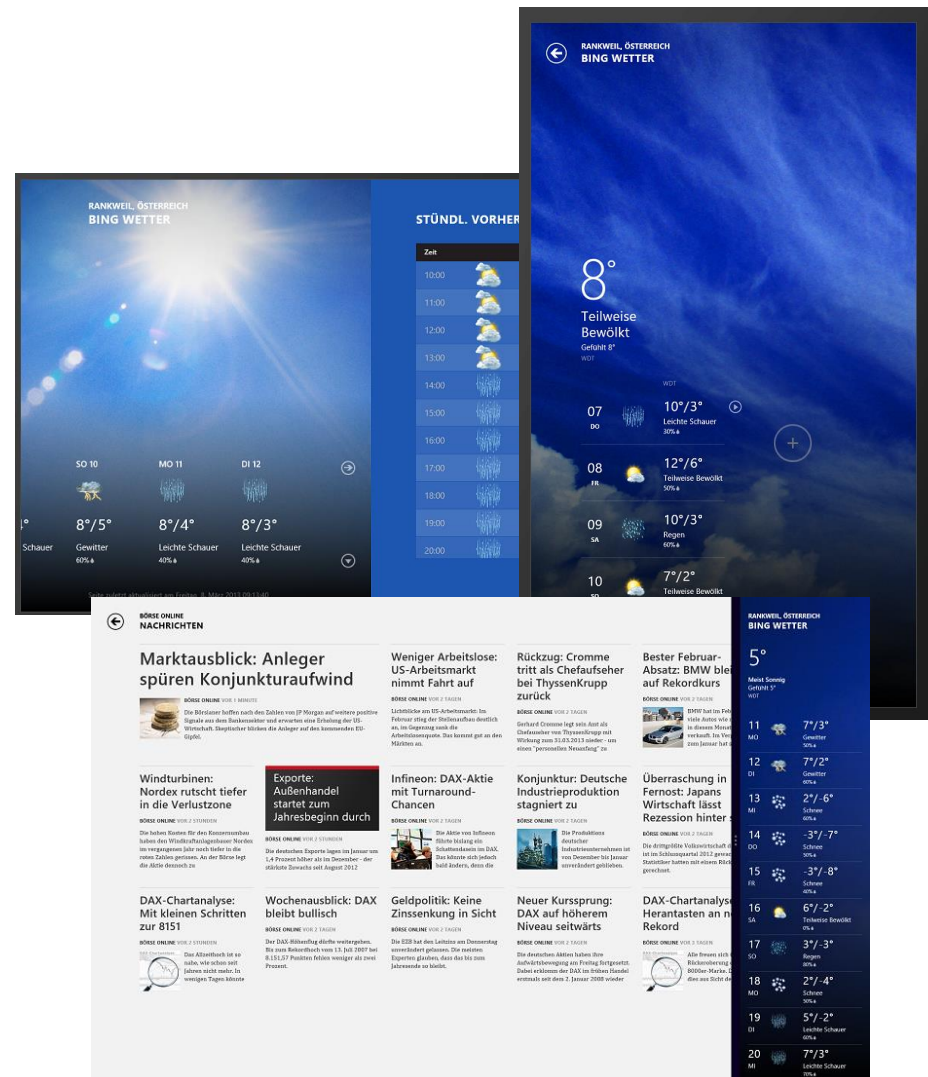


- laufen in einem einzigen „Frame“
- werden beim Schliessen nicht beendet
- Windows entscheidet über Suspend/Resume/Abort/Restart
- Zugriff auf Systemressourcen
- können untereinander Daten austauschen (Roaming)
- dynamisches Layout (Bildschirmgröße, Orientierung)
- einheitliches Layout und Navigationsschema
- nur mit bekannten Gesten oder Shortcuts
- plattformunabhängige Libraries Win8/XBox360/Phone
- Bezugsquelle ist der Windows App Store
- Installation auf max. 5 Devices
- LOB-Apps via „Side-Loading“

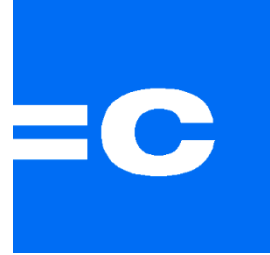
Dynamisches Layout



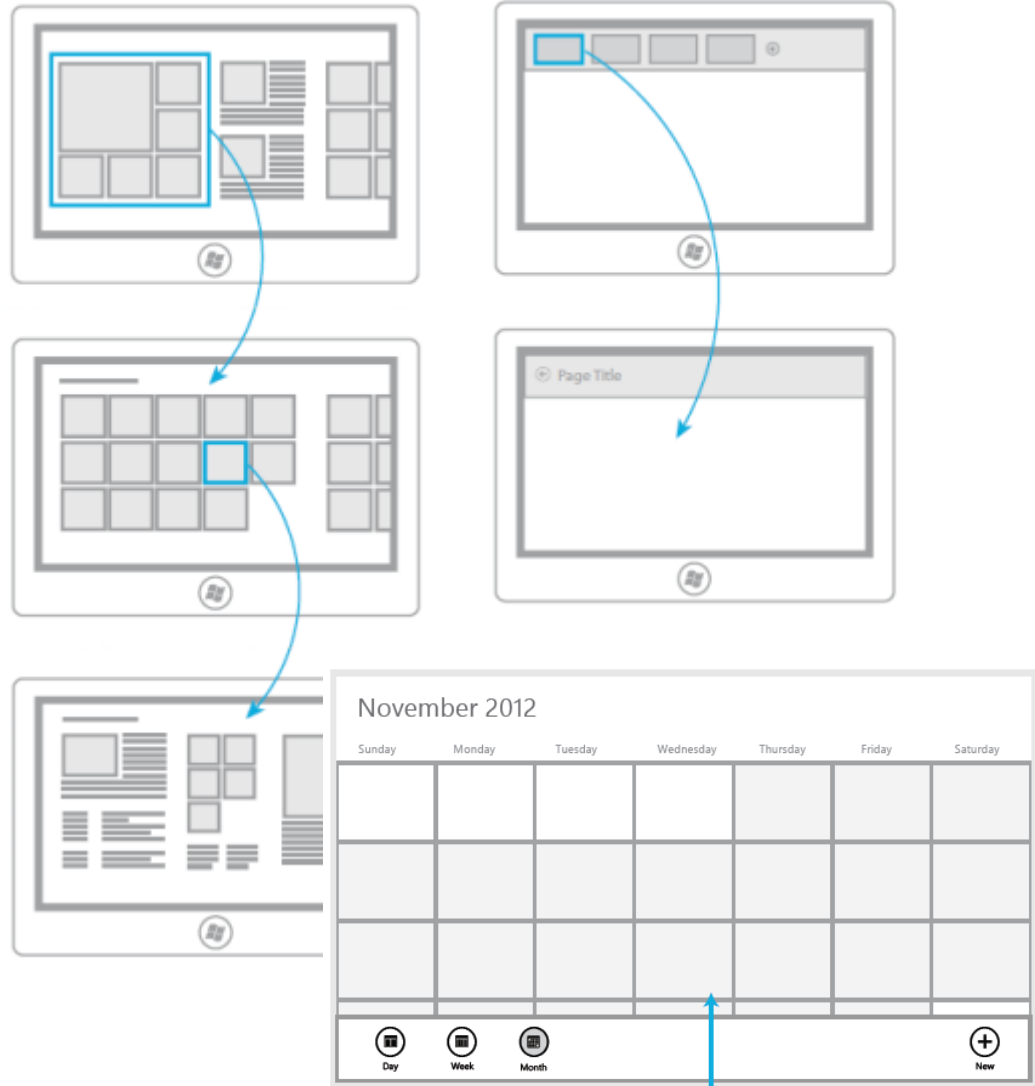
- Bildschirmauflösung
- Semantic Zoom
- Hoch/Querformat
- Flipped Views
- Themes
- Andocken



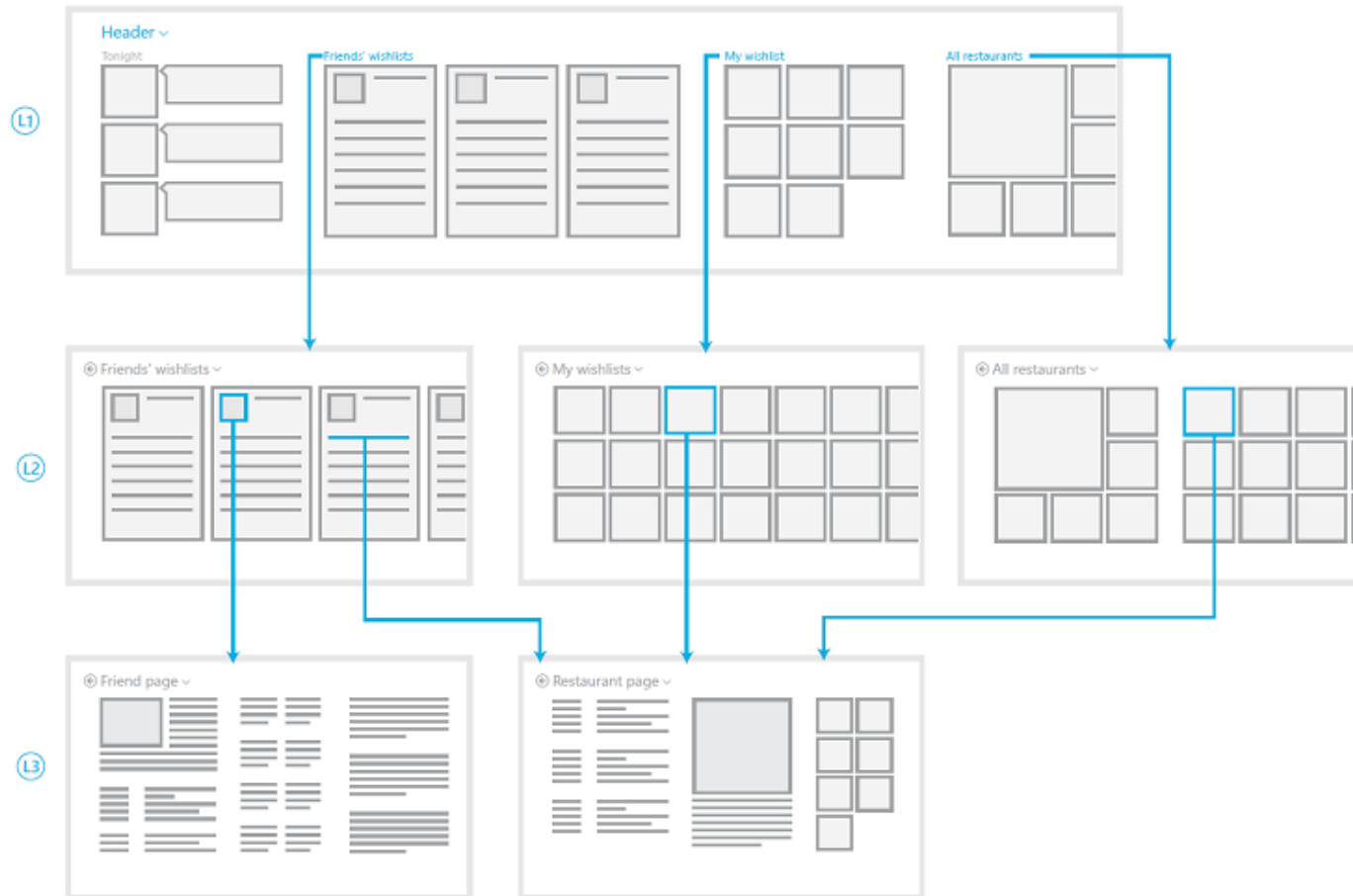
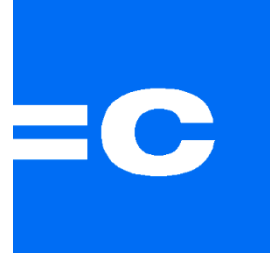
UI Struktur



- Hub Pages
- Section Pages
- Detail Pages
- Home Button
- Back Button
- Top App Bar
- Bottom App Bar



Beispiel: Find Restaurant App



Beispiel: App Store



Store

Games >

ebay
Free ★★★★★

Top paid

SHAZAM
Free ★★★★★

Top free

Shazam
Free ★★★★★

New releases

Shark Dash!
fr.1.80 ★★★★★

Monsters Love Candy
Free ★★★★★

Last Gun
fr.3.20 ★★★★★

Dodo GoGo
Free ★★★★★

Zombies!!!
fr.4.50 ★★★★★

Games 4462 apps

All subcategories All prices Sort by noteworthy

Toy Soldiers Cold War: Touch E...
★★★★★
fr.9.50

Doodle Grub
★★★★★
fr.1.40

Farm Frenzy 2
★★★★★
fr.2.80

Pilot Brothers Lite
★★★★★
Free

Chimimpact
★★★★★
fr.1.40

Doodle God F2P
★★★★★
Free

Pin Steam
★★★★★

Draw a Stickman: EPIC Fre...
★★★★★
Free

Hydro Thunder Hurricane
★★★★★
fr.9.50

Doodle Devil
★★★★★
fr.4.50

Akinator
★★★★★
fr.1.80

Birzzle Pandora
★★★★★
fr.2.40

Pilot Brothers

Overview Details Reviews

★★★★★
2 ratings
fr.2.80
Buy

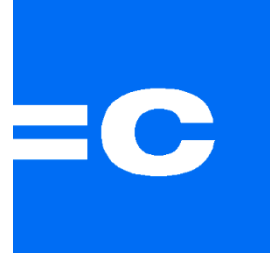
When you install an app, you agree to the Terms of Use and any additional terms.

Category: Games > Adventure
Download size: 492 MB
Age rating: 12+
Publisher: 1C Wireless LLC
© 2012 1C Wireless, 2012 © MITCOM Neue Medien GmbH, 1999...

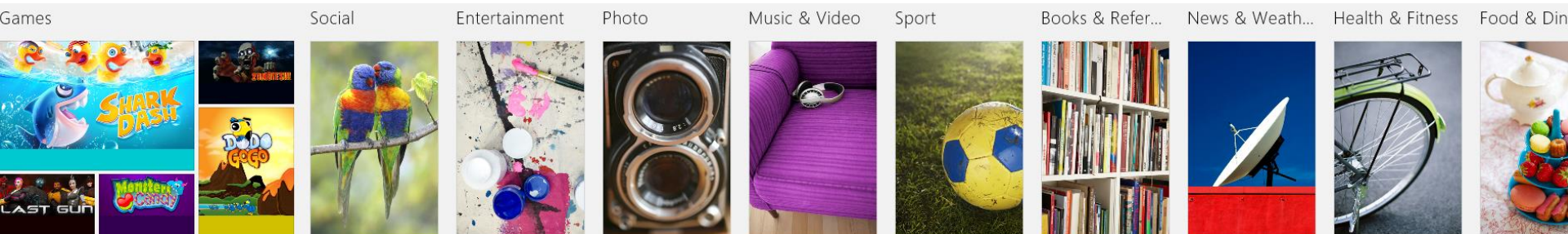
Auf zum Zool

Description
Was ist los?
Sieht nach einem interessanten Fall aus!
Der Fall des gestohlenen Elefanten!
Read more

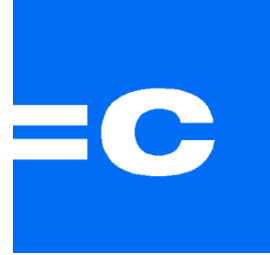
Windows App Store



- verschiedene Geschäftsmodelle (Prepaid, Trial, Feature-Trial, In-App Purchase)
- Fixe Preisstaffel (ab 1.49\$)
- Länderspezifische Steuerberechnung
- Zertifizierung
- 30% bleiben bei MS (20% > 25.000\$)
- Auszahlungen nur > 200\$
- Reporting
- Developer Licence
- Account Type (Individual=49\$, Company=99\$)



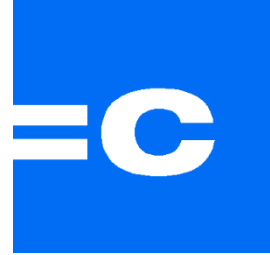
Windows App Store



- Personal Dashboard



App Entwicklung

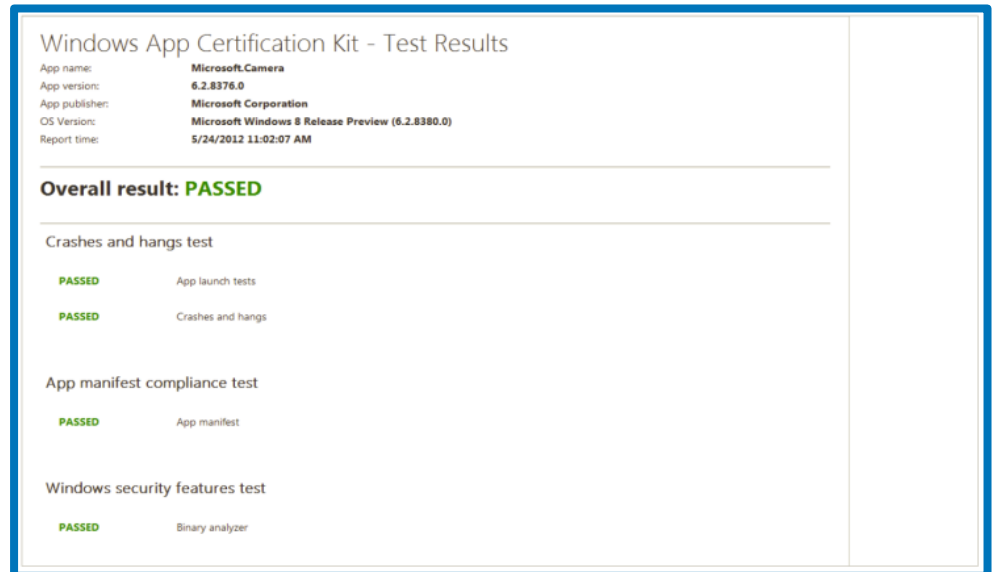


- Developer Licence (Registrierung bei MS)
- Store Account
- Visual Studio 2012
 - Plattformen HTML5/Javascript, VB/C#, C++
 - Layout/Design/Ressourcen (Blend)
 - Testen
 - App-Namen reservieren
 - App-Manifest bearbeiten
 - Testzertifizierung
 - Hochladen
 - Lokales Deployment

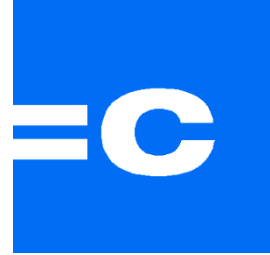
App Zertifizierung



- Certification Kit
 - Manifest Test
 - Crash Smoke Test
 - Debug-Konfiguration
 - Paketvalidierung
 - Leistungstest
 - Codeanalyse
 - Sicherheitstest
 - Direct3D Featuretest
 - Systemneustart
 - Uninstall
 - Richtige Zielordner
 - Mehrfachbenutzersitzung
 - Betriebssystemversion
 - X64 Unterstützung
 - Attack Analyzer
 - Benutzerkontensteuerung



What's New in Visual Studio



- Fenster in anderen Monitoren andocken
- neuer Solution Explorer, Image Editor
- Themes (Dark/Light)
- asynchrones Laden
- XAML Designer und Blend
- LightSwitch (RAD Framework)
- Windows Store Apps (Project & Page Templates)
- Device Simulator
- Windows Store Integration
- Portable Library Projekte
- kein Setup Projekt-Template (InstallShield for VS)
- noch kein Crystal Report Plugin von SAP

So siehts aus:

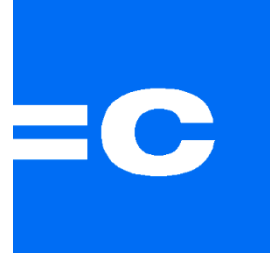


The screenshot shows the Visual Studio IDE with the following components:

- Solution Explorer:** Shows a project named 'BlogReader' with various files and folders, including 'Assets', 'Common', 'App.xaml', 'DateConverter', 'DetailsPage.xaml', 'FeedData.vb', 'ItemsPage.xaml', 'MainPage.xaml', and 'SplitPage.xaml'.
- Code Editor:** Displays the code for 'FeedData.vb' and 'FeedItem.vb'.

```
1 Imports Windows.Web.Syndication
2
3
4 '
5 ' Holds info for a single blog feed, including a list of blog posts (FeedItem).
6 Public Class FeedData
7     Public Property Title() As String = String.Empty
8     Public Property Description() As String = String.Empty
9     Public Property PubDate() As DateTime
10
11     Private _Items As New List(Of FeedItem)()
12     Public ReadOnly Property Items() As List(Of FeedItem)
13     Get
14         Return Me._Items
15     End Get
16 End Property
17 End Class
18
19 '
20 '
21 ' Holds info for a single blog post.
22 Public Class FeedItem
23     Public Property Title() As String = String.Empty
24     Public Property Author() As String = String.Empty
25     Public Property Content() As String = String.Empty
26     Public Property PubDate() As DateTime
27     Public Property Link() As Uri
28 End Class
29
30 '
31 '
32 ' Holds a collection of blog feeds (FeedData), and contains methods needed to
33 ' retrieve the feeds.
34 Public Class FeedDataSource
35     Private _Feeds As New ObservableCollection(Of FeedData)()
36
37     Public ReadOnly Property Feeds() As ObservableCollection(Of FeedData)
38     Get
39         Return Me._Feeds
40     End Get
41 End Class
```
- Properties Window:** Shows the 'FeedData.vb' File Properties, including 'Advanced' and 'Misc' sections.
- Output Window:** Shows the output of the application, including the path to the assembly and the version number (v4.0.30319).

What's New in Visual Basic



- Asynchrone Methoden

```
Async Function AccessTheWebAsync() As Task(Of Integer)
    Dim client As HttpClient = New HttpClient()
    Dim getStringTask As Task(Of String) = client.GetStringAsync("http://msdn.microsoft.com")

    DoIndependentWork()

    Dim urlContents As String = Await getStringTask

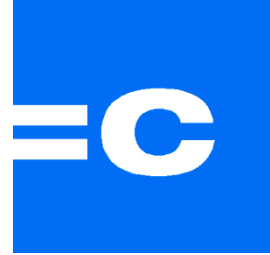
    Return urlContents.Length
End Function
```

- Iteratoren

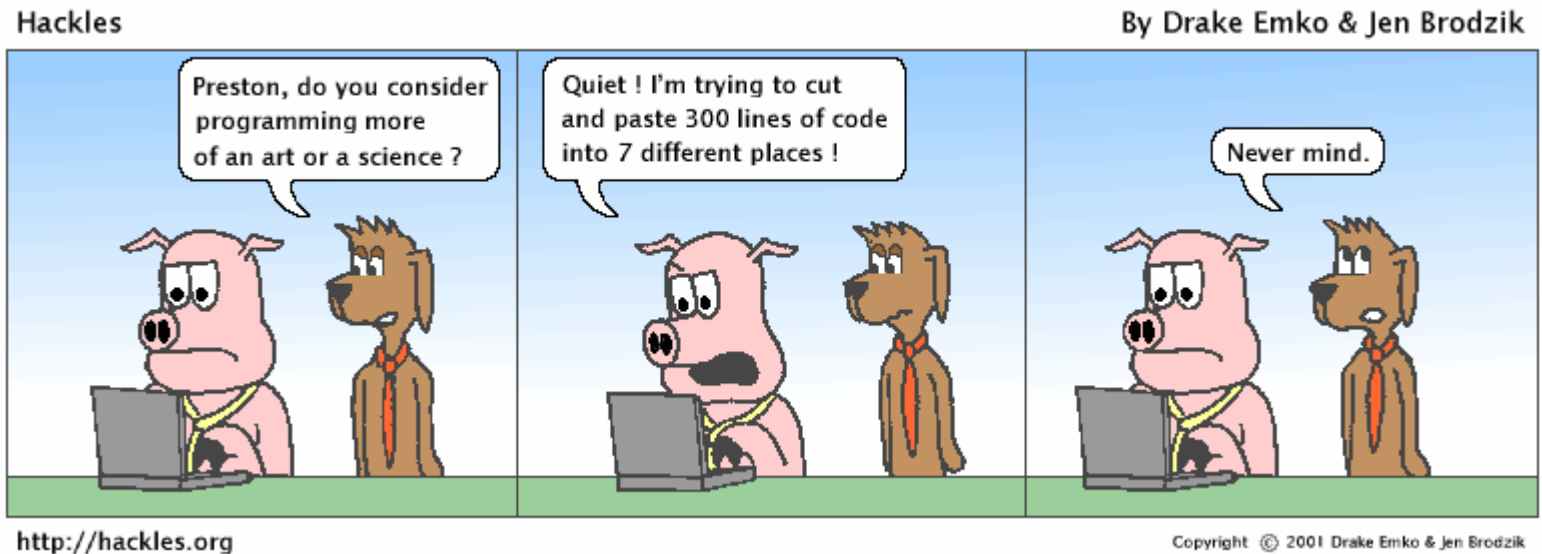
```
Sub Main()
    For Each number As Integer In SomeNumbers()
        Console.Write(number & " ")
    Next
    ' Output: 3 5 8
    Console.ReadKey()
End Sub

Private Iterator Function SomeNumbers() As System.Collections.IEnumerable
    Yield 3
    Yield 5
    Yield 8
End Function
```

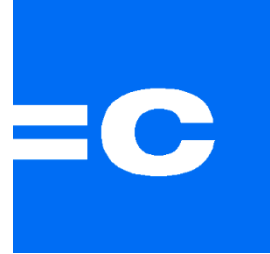
Demo: Blog Reader



- Visual Basic / XAML
- Microsoft Windows Blogs
- Liste der letzten Blogeinträge
- Anzeige eines Beitrags

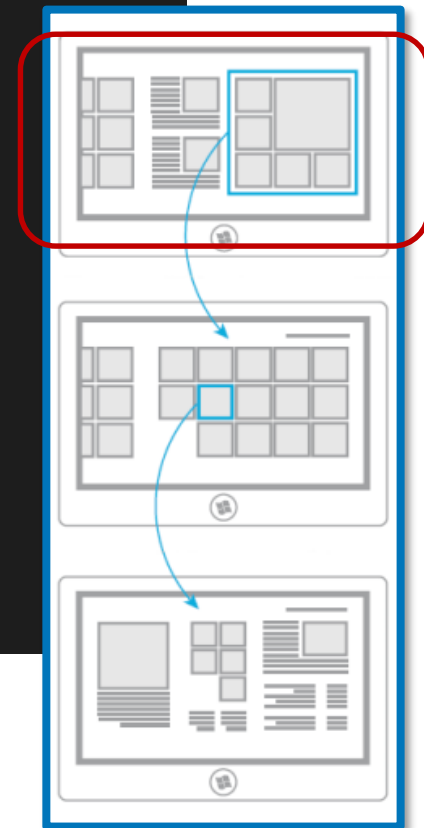


Hub Page

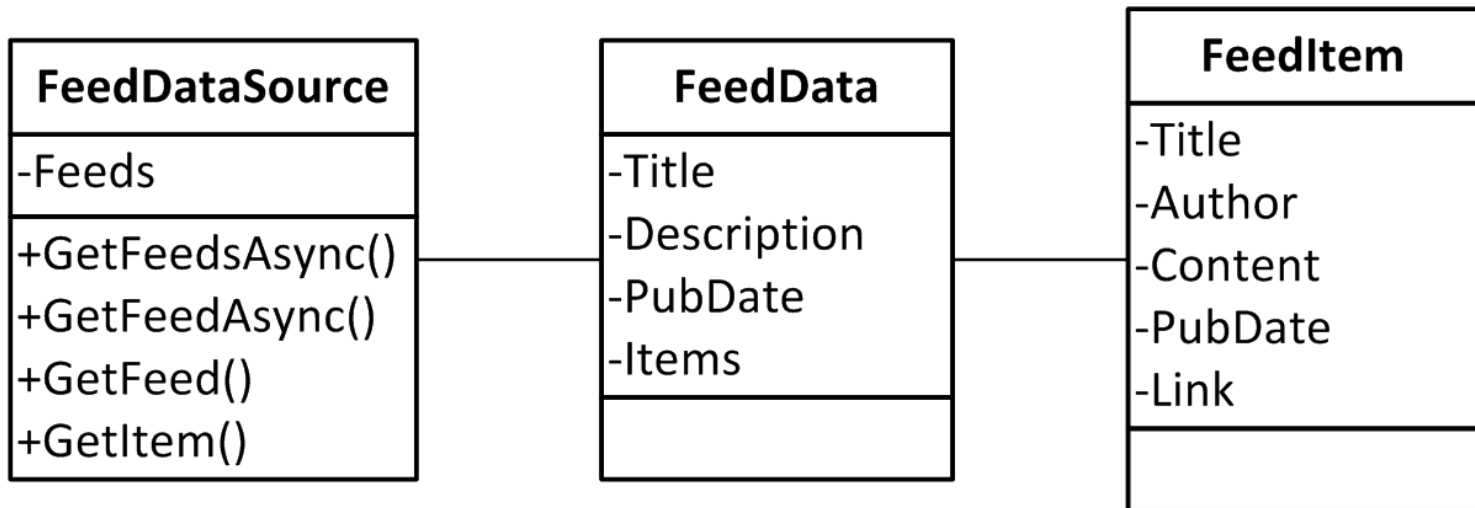
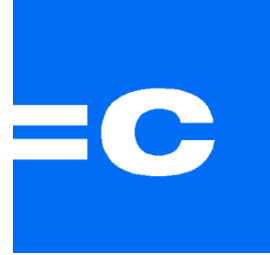


Windows Team Blog

Inside SkyDrive Last Updated 08/02/2013 15:00:00	Windows for your Business Last Updated 04/03/2013 18:03:09	Springboard Series Blog Last Updated 07/03/2013 19:03:00	Windows Live for Developers Last Updated 19/07/2011 23:59:56	Windows Mobile 6 Developer Blog Last Updated 25/03/2010 21:31:42
Windows Experience Blog Last Updated 12/03/2013 19:00:24	Blogging Windows Last Updated 26/02/2013 22:30:27	Windows Home Server Blog The official blog for Windows Home Server. Windows Home Server provides customers with a one-stop show for access to their most important files and data in their home from all their PCs. Last Updated 31/08/2012 05:20:03	Exploring IE A Blog for Internet Explorer Customers Last Updated 26/02/2013 14:59:00	Windows Phone Blog The official Windows Phone Blog is the place for Windows Phone news, tips & tricks, app reviews, podcasts, and more! Last Updated 13/03/2013 09:04:18
Extreme Windows Blog The Extreme Windows Blog is where we will blog about the more advanced bleeding edge scenarios for Windows and PCs. Last Updated 05/03/2013 20:08:01	Windows Security Blog Last Updated 16/06/2011 22:53:00	Inside Windows Live The engineering blog for Hotmail, Messenger, SkyDrive, and Windows Live Last Updated 06/11/2012 19:08:00	Windows Phone Developer Blog Last Updated 12/03/2013 18:20:32	



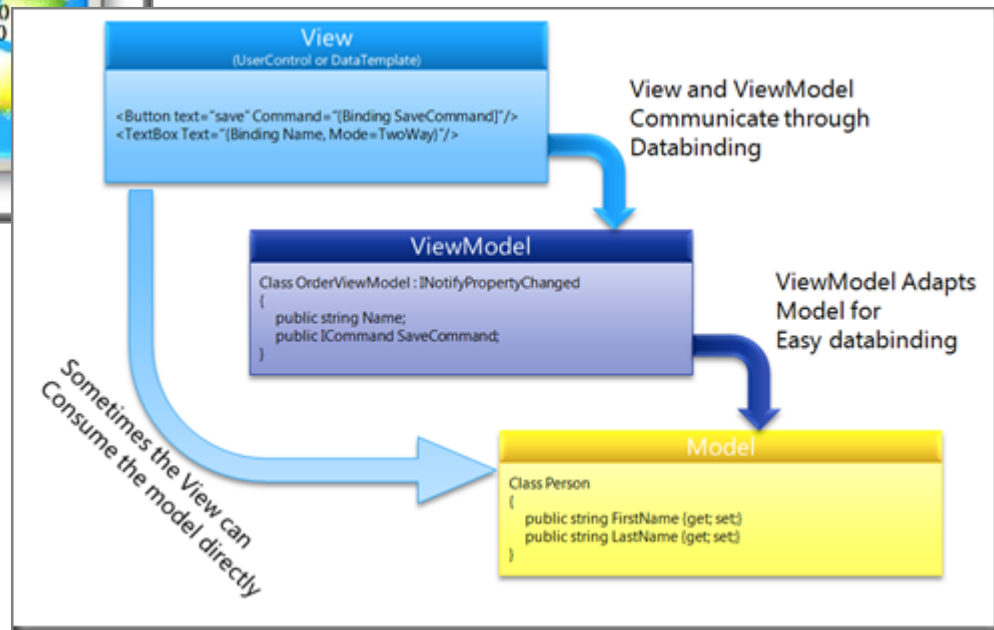
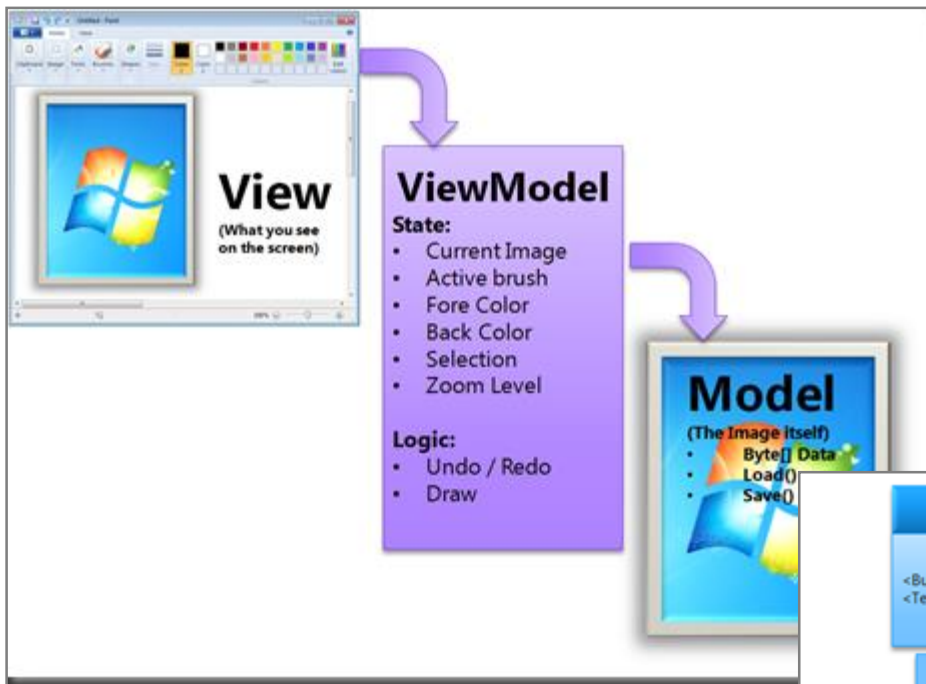
Blögeinträge lesen



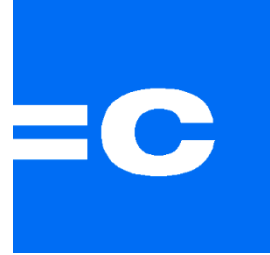


MVVM

Model View ViewModel Pattern



Section Page



← Windows Security Blog

JUN 16 | 2011
Dealing with Fake Tech Support & Phone Scams
Eric Foster

MAY 28 | 2011
Combating social engineering tactics, like
Brandon LeBlanc

APR 27 | 2011
Windows 7 is now Common Criteria Certified!
Eric Foster

MAR 12 | 2011
Security and Internet Explorer
Eric Foster

OCT 26 | 2010
Fake Microsoft Security Essentials software on the
Eric Foster

OCT 06 | 2010
Microsoft Security Essentials available to Small Businesses
Eric Foster

SEP 29 | 2010
Microsoft Security Essentials Celebrates First Birthday
Eric Foster

SEP 22 | 2010
Microsoft Security Essentials now available for Small
Eric Foster

Security and Internet Explorer

While the Internet is an amazing resource in terms of the information you can find and things you can do today, it's important to also be smart about how you browse. A browser can be a great tool in helping you stay safe when you go online.

Most online attacks fall into one of the three situations:

1. Malware that relies on social engineering to spread
2. Attacks directed against your browser or your operating system
3. Attacks directed towards the websites you visit

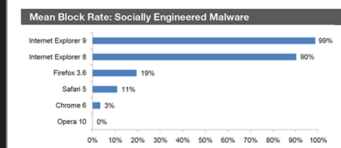
Let me spend some time describing what I mean by each of these, and also how Internet Explorer can help protect you from each of these types of attacks.

Helping Protect You from Socially Engineered Attacks

A term that you may hear on occasion within the security realm is "[socially engineered attacks](#)." What this means is an attacker uses clever techniques to get you to lower your guard and trick you into doing something that makes you vulnerable to an attack. The idea here is that they aren't looking for weaknesses in code; rather, they're trying to fool you into a [trap](#).

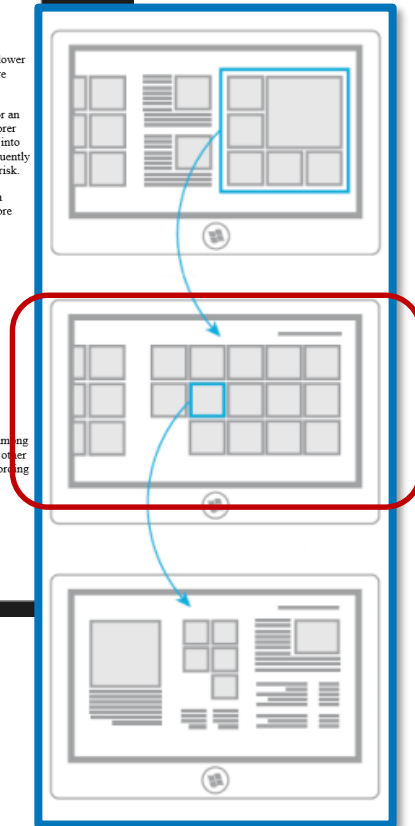
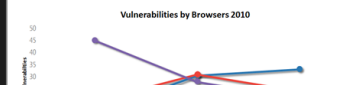
The ways in which we see this play out are varied; it may be that you get [spam](#) – that is to say an email from a fake bank that actually takes you to a malicious site, or an email supposedly from a friend that encourages you to download a file which may contain malware. To help keep you safe from such types of attacks, Internet Explorer comes with the [Smart Screen](#) filter technology, which has been improved even more with Internet Explorer 9. SmartScreen makes it harder for someone to trick you into opening a malicious page, or con you with a phishing site. This technology checks to see if the site you're visiting is suspected of hosting malicious code and subsequently [prevents you](#) from continuing on to that page. Internet Explorer 9 goes one step further by warning you only when you [download applications](#) that may be of higher risk.

Technologies like this can make a big difference in helping to keep you safe online. In December, [NSS Labs reported](#) that Internet Explorer offers the best protection against the spread of socially-engineered malware. As you can see in the below chart, Internet Explorer 8 (90%) and Internet Explorer 9 (99%) offer significantly more protection than other browsers.

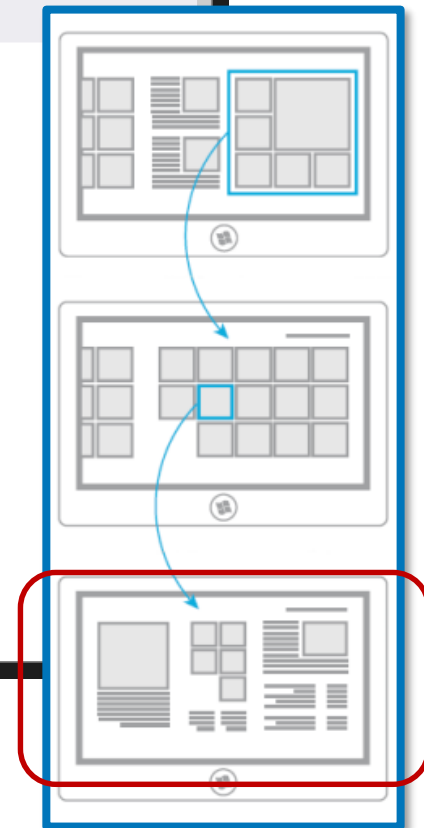
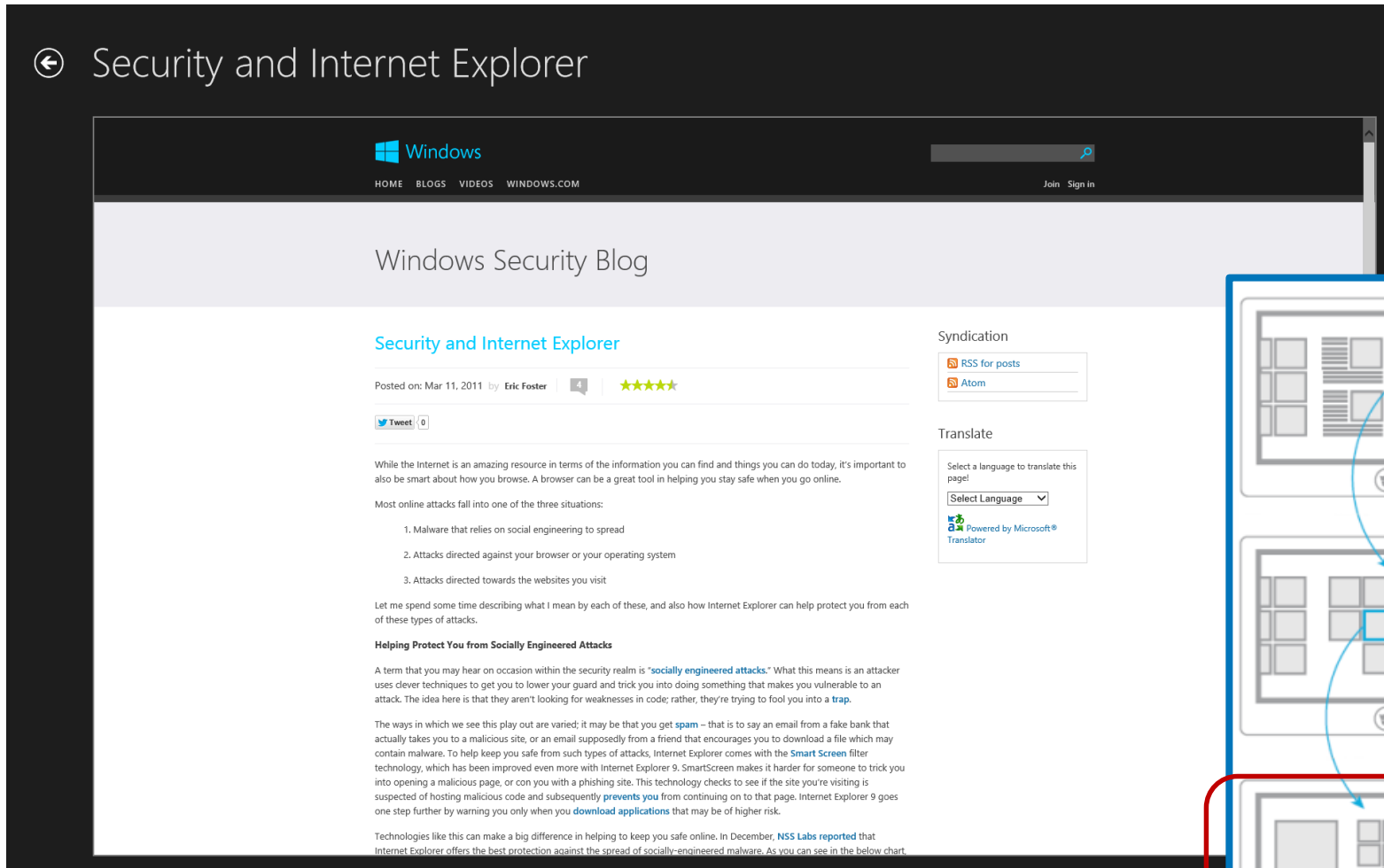
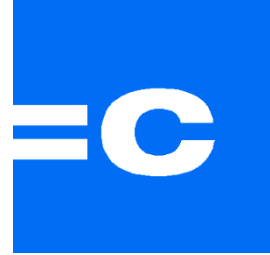


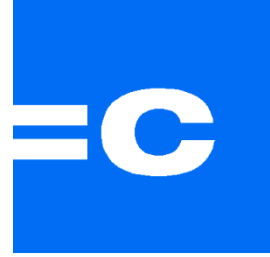
Mitigating Attacks on Your Browser and PC

Internet Explorer also helps protect against deliberate attacks where bad code is hosted on a site that is designed to exploit weaknesses in the software on your PC. Among all the lines of code that make up software, there can be vulnerabilities. The Internet Explorer team designed its browser with security in mind, and in comparison to other browsers, Internet Explorer has fewer vulnerabilities. The chart below illustrates the number of publicly known vulnerabilities in 2010 divided by each browser, according to the [National Vulnerability Database](#).



Detail Page





Vielen Dank für Ihre Aufmerksamkeit

Für Fragen stehen wir gerne zur
Verfügung.