

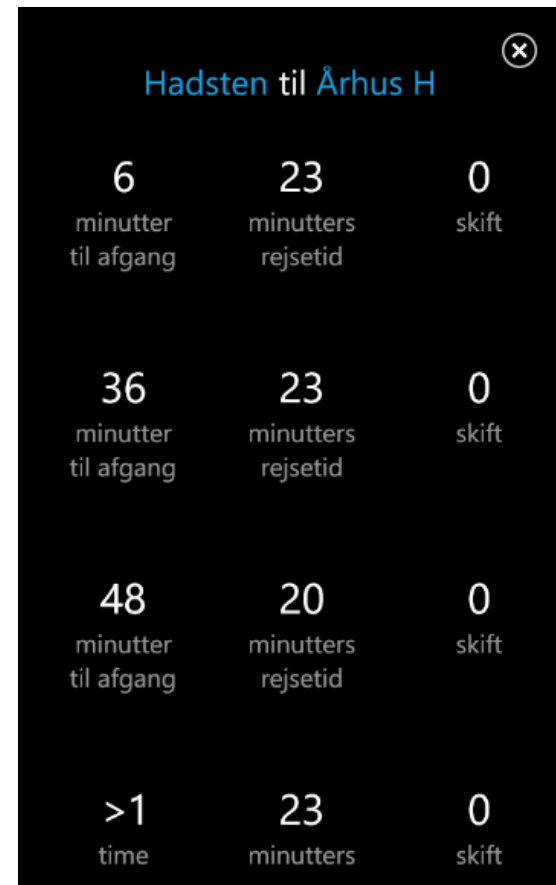
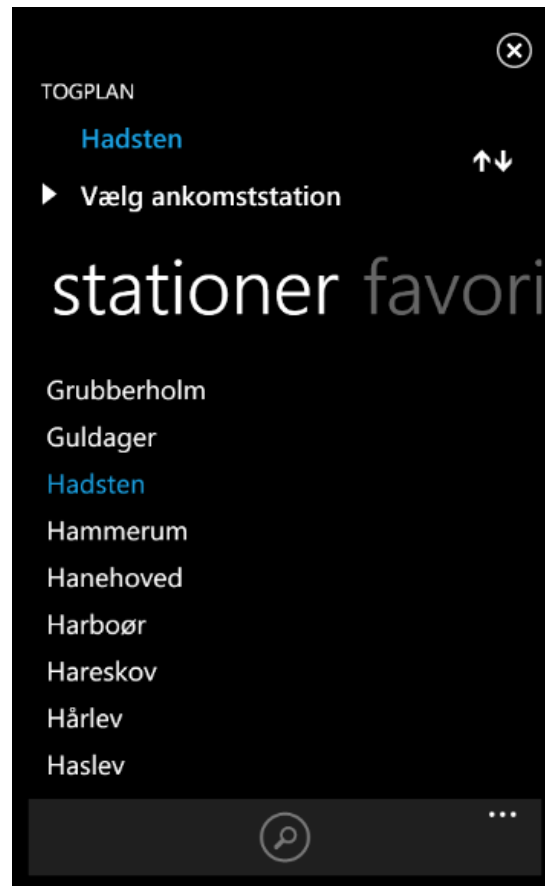
WP7 Geek night – sådan gør vi!

- Vi har lavet apps!
- Hvordan kan du lave apps?
- Windows Phone 7 som telefon i det daglige
- Hvad kommer senere?
- Metro
- Navigation
- Tombstoning
- Launchers/choosers
- Sensors
- MVVM
- Performance
- Marketplace gode historier

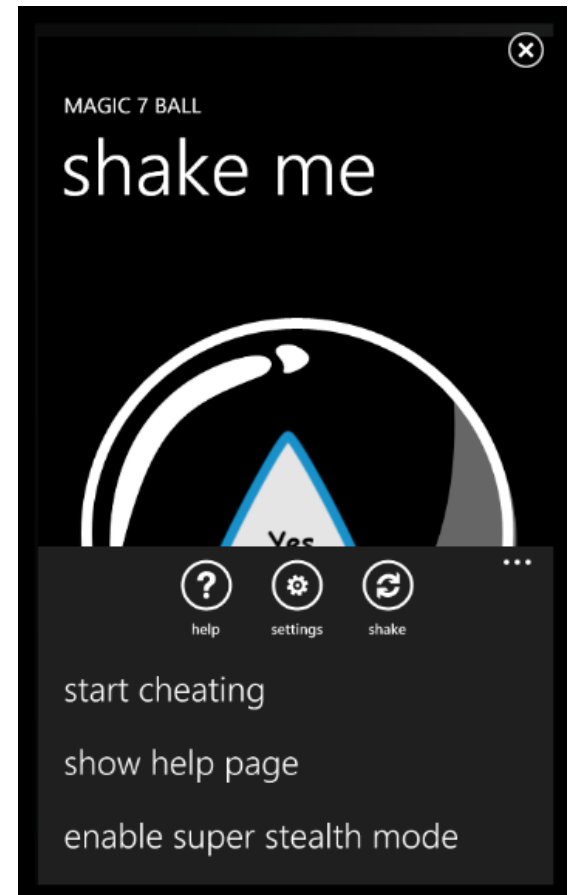
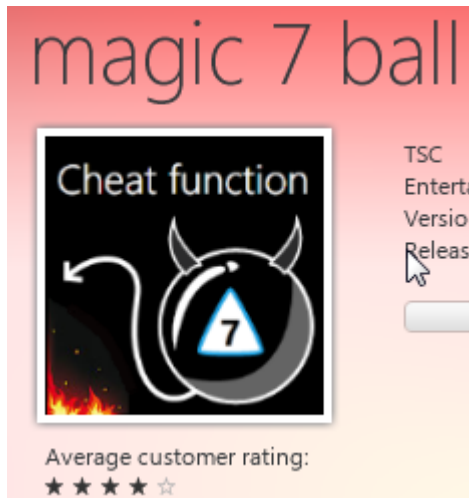


Vores apps

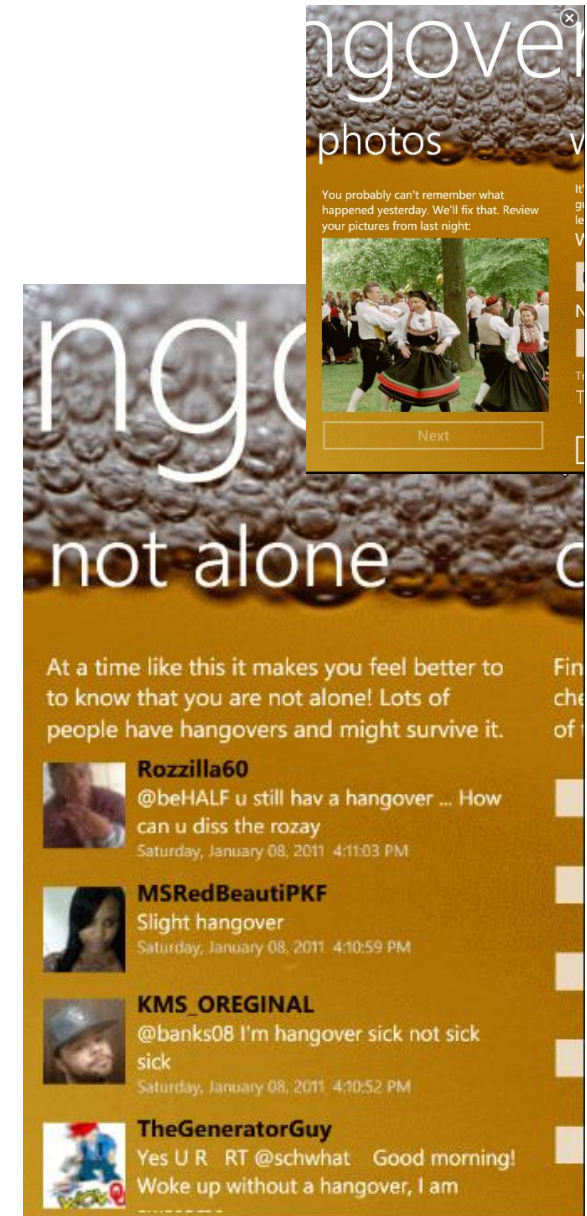
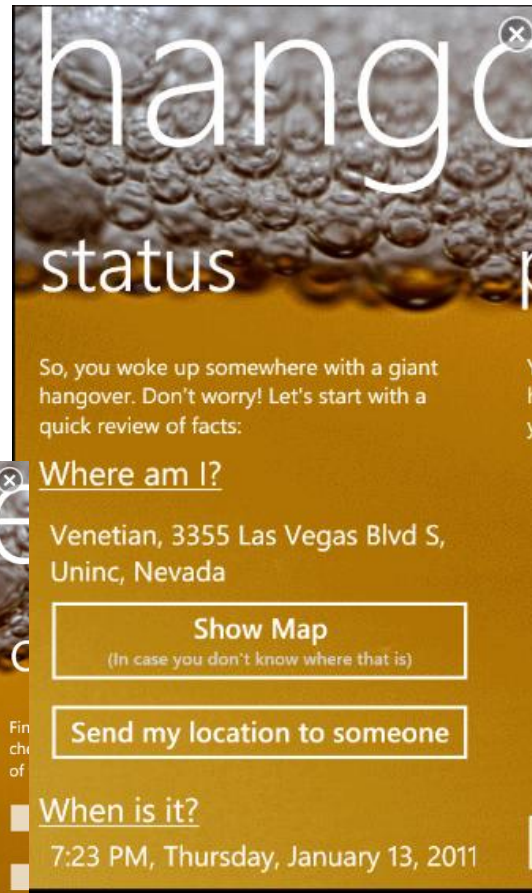
togplan



Vores apps



Vores apps



Hvordan kommer man igang?

Start på: <http://create.msdn.com>



- 1) Gratis Visual Studio og Blend – Gratis
- 2) Programming Windows Phone 7 - Gratis
- 3) Gang i emulatoren - Gratis
- 4) (køb en telefon) – Cirka 4.000,-
- 5) Køb App Hub adgang - \$99
- 6) Nu kan du låse din telefon op!
- 7) Bliv godkendt af GeoTrust



Nu kan du submitte apps. 5 Gratis "gratis" apps, herefter \$19. "Ikke gratis" apps er gratis at submitte. Updates er gratis.

Du skal betale \$99 igen efter et år for at beholde dine apps på marketplace.

Windows Phone 7 til daglig

- Nytænkende 😊
- Halvfærdig 😞
- Mangler dansk ordbog 😞
- My name is Mr. Smith (Beverly Hills 90210) 😞
- Contacts, Facebook og Tiles 😊
- Hardware kvalitet 😐
- Coding bliss... Silverlight & c# 😊
- Back knap 😊
- Bing 😞

Senere i år (NoDo & Mango)

- Copy & Paste
- Hurtigere load af spil og programmer
- SkyDrive
- Rigtig Multitasking
- IE9 (HTML 5. Canvas, Video, CSS3, Geo location, Hardware accelerated, Local storage mv.)
- Twitter ind i People hub
- Nokia Hardware (Dual core, billigere telefoner)
- Dansk ordbog og sprog
- Ovi-maps/bing maps
- (Sockets, Augmented reality)
- Nyt format (BlackBerry formatet)

2012

- Silverlight 5 på desktop, web og telefon?
- SQL Express/Sync?
- ?



Hvad med en Pad?



Cut to the chase...



VS.





METRO

Bevægelse, indhold og tekst er vigtigere end "pynt".

Et opgør med "analog" design med 3D skygger og runde former som startede tilbage i Windows 95 tiden.

Panorama, Pivot, Accent



Panorama, Pivot, Accent



- Test med light & dark theme
- Svært at finde baggrunds-billeder som passer med begge themes og alle Accent farver!
- Pas på med "store" ting som bing maps – de bliver dubbleret hvis du har dem på flere Panorame/Pivot sider.

Hvad vil du supportere?

- Landscape
- Portrait
- Light
- Dark
- Fysisk keyboard
- Virtuelt keyboard
- Accent farver
- (fremtidigt nyt format... Åh nej!)



Navigation

App.xaml.cs

```
public partial class App : Application
{
    public PhoneApplicationFrame RootFrame { get; private set; }
}
```

WMAppManifest.xaml

```
<Tasks>
<DefaultTask Name = "_default" NavigationPage="MainPage.xaml"/>
</Tasks>
```



Navigation

Naviger mellem sider (PhoneApplicationPage'er)

```
NavigationService.Navigate( new Uri("/AnotherPage.xaml", UriKind.Relative));
```



Navigation

QueryStrings... Hvis du synes det er pænt !?

```
this.NavigationService.Navigate(new Uri("/Views/Customer.xaml?id=101"));
```



```
protected override void OnNavigatedTo(NavigationEventArgs e)
{
    base.OnNavigatedTo(e);
    var fooValue = this.NavigationContext.QueryString["id"];
}
```

...er det bare mig eller er vi ude i noget 90'er web-udvikling her?



Navigation

Helpful
Tips

Cancel BackKey når brugeren forventer det.

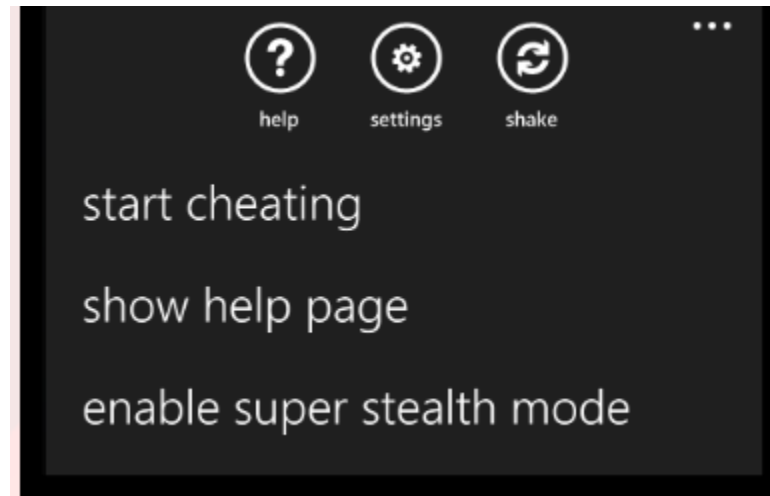
```
protected override void OnBackKeyPress( System.ComponentModel.CancelEventArgs e )  
{  
    e.Cancel = true;  
}
```

Brug `NavigationService.GoBack` for at gå tilbage i stedet for `NavigateTo` så du ikke går i ring med back button. :-)

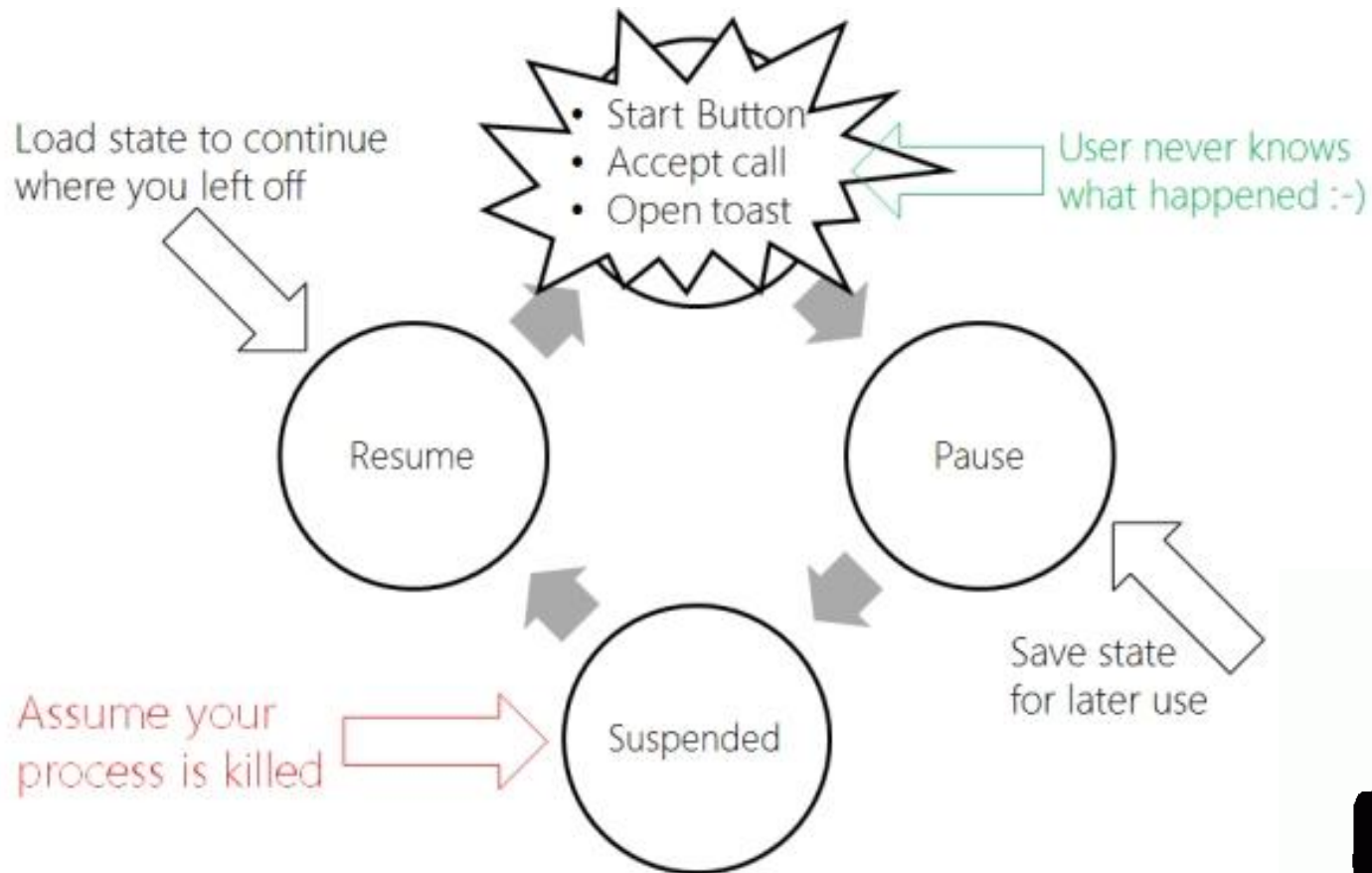


Menu

- Xaml/kode



~~Multitasking~~ Tombstoning



Tombstoning

```
<Application ...>  
  <Application.ApplicationLifetimeObjects>  
    <shell:PhoneApplicationService  
      Launching="Application_Launching"  
      Closing="Application_Closing"  
      Activated="Application_Activated"  
      Deactivated="Application_Deactivated" />  
  </Application.ApplicationLifetimeObjects>  
</Application>
```



Tombstoning

Helpful
Tips

- Brug som minimum en lille hjælpe-klasse
- Byg tombstoning ind i din ViewModel
- Husk: Telefonen kan ringe hvornår som helst.
- Gem PanoramaControl.SelectedIndex
- Centralt/på hver side/hybrid



Launchers/Choosers(Task)

```
var task = new WebBrowserTask() {URL = "http://www.clr-namespace.com"};  
task.Show();
```

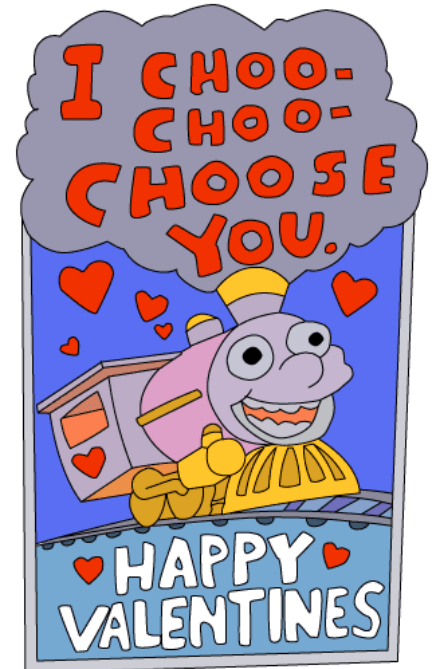
Launchers (fire & forget):

- EmailComposeTask
- MarketplaceDetail/Hub/SearchTask
- MediaPlayerLauncher
- PhoneCallTask
- SearchTask
- SmsComposeTask
- WebBrowserTask



Choosers (data tilbage):

- CameraCaptureTask
- EmailAddressChooserTask
- PhoneNumberChooserTask
- PhotoChooserTask
- SaveEmailAddressTask
- SavePhoneNumberTask



GPS

GeoCoordinateWatcher

.StatusChanged

.PositionChanged

Husk dispatcher.BeginInvoke(()=>{})



Video/Photo

Kun choosers til 3. part apps



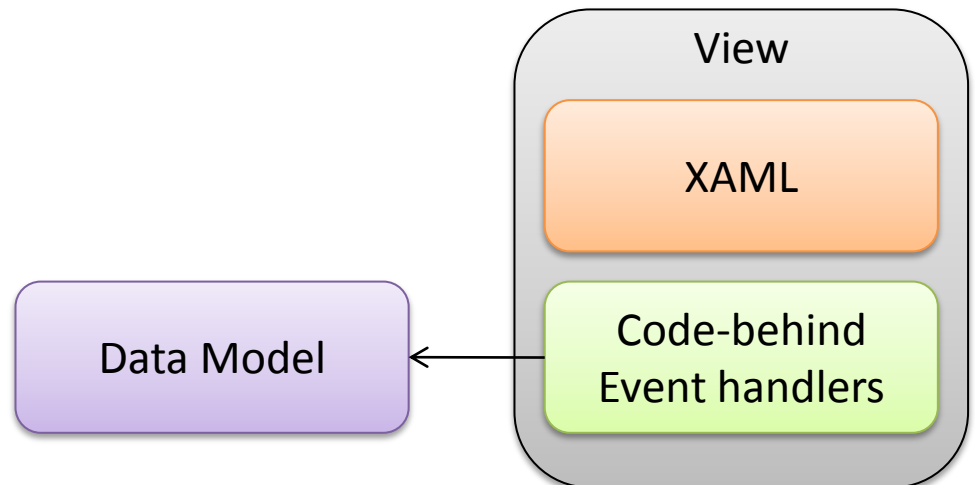
Accelerometer



Test og vedligeholdelse

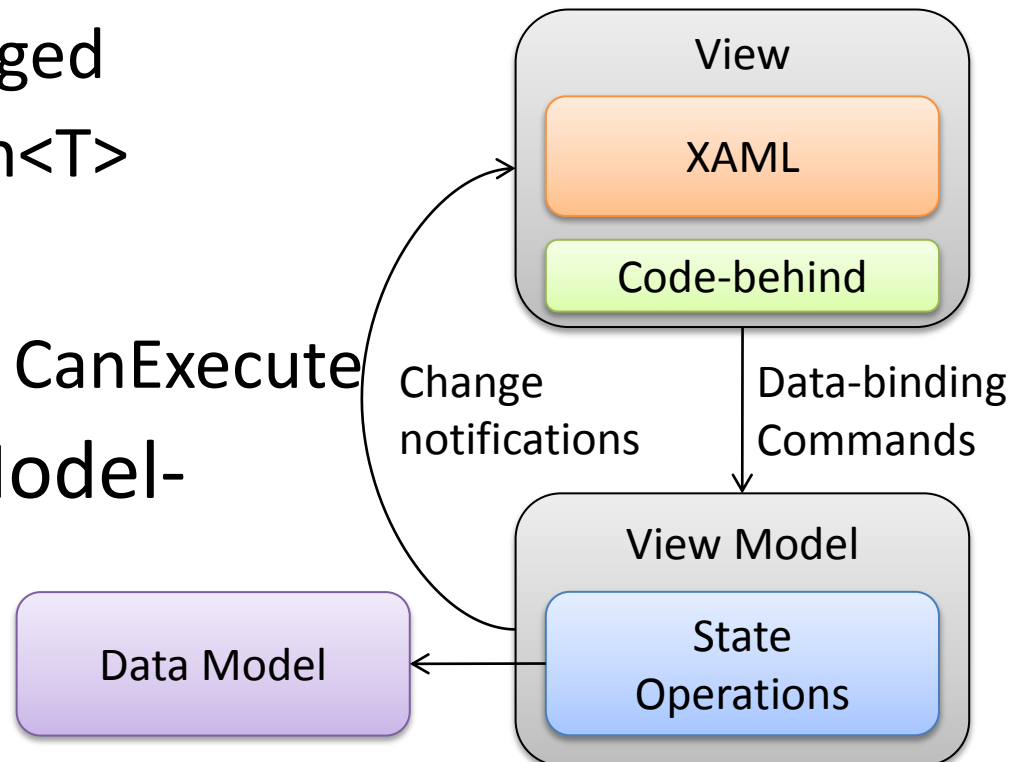
- Vi kender det alle:

```
private void bSearch_Click(object sender, RoutedEventArgs e) {  
    tbFrom.IsEnabled = false;  
    tbTo.IsEnabled = false;  
    bSearch.IsEnabled = false;  
  
    var service = new Service();  
    var results = service.Search(tbFrom.Text, tbTo.Text);  
    ...  
  
    tbFrom.IsEnabled = true;  
    tbTo.IsEnabled = true;  
    bSearch.IsEnabled = true;  
}
```



MVVM

- Designpattern: Model-View-ViewModel
 - MVC, MVP, MVVM
- Udnytter databinding
 - INotifyPropertyChanged
 - ObservableCollection<T>
- Udnytter commands
 - ICommand: Execute, CanExecute
- Messaging til ViewModel-kommunikation



MVVM

- Giver et minimum af kode i views
 - View-only-kode (f.eks. animationer) i princippet det eneste
- Viewet kender sin ViewModel
 - ViewModelLocator (DI)
 - Fuld Blendability
- Måske overkill til små projekter... men hvad nu hvis...
- Understøttende frameworks: [MVVM Light Toolkit](#), [Caliburn](#), ...
- Erfaringer?

Performance

- Vi er på en mobiltelefon...
- Flaskehalse
 - Netværk
 - SOAP? JSON!
 - Processorkraft
 - Lokale beregninger? Skyen!
 - RAM
 - PNG? JPEG!
 - Disk
 - XML? Binær!
 - Silverlight

Performance

tænk det ind fra starten



- Gør det let at "opgradere" til bedre performance
- Perceived vs. Actual performance
 - Opdel i mindre assemblies
 - Udfør arbejde på forhånd
- Opstart af applikation
 - App()
 - Application_Launching
 - Første sides constructor
 - Første sides OnNavigatedTo
- Ved langsom opstart
 - Brug SplashScreenImage.jpg - men lav din egen!
 - Brug en load-side

Performance

tænk det ind fra starten



- Udfør alt arbejde på en anden tråd end UI-tråden
 - ThreadPool
 - BackgroundWorker
 - Initielt arbejde udføres først ved LayoutUpdated
- Inkluder ressourcer som Content – ikke Resources
- Brug HttpRequest fremfor WebClient
- Brug PerformanceProgressBar i stedet for den indbyggede ProgressBar
- Kald til IsTrial tager 60 ms!

Marketplace

- Husk seneste update
- Husk korrekte versions nummer over det hele.
- Husk at teste din app med aircraft mode slået til.
- Husk at du altid finder en lille dum ting du får lyst til at lave om når du **har** submittet. Test->Submit->Få et liv 😊



Marketplace

- Grafik, tekst, navn på Marketplace er lige så vigtig som din app! Du kan gemme verdens bedste app væk bag elendig ”markedsføring”.
- Din app skal se god ud, ellers finder brugeren aldrig ud af at den faktisk er god.
- Lav en ”review knap” (evt. forsinket)
- Statistik – PreEmptive Solutions

windows phone: downloads report

[my apps](#)

[my account](#)

reports

[support](#)

[+ submit new app](#)

create a report

Start date:

End date:

Country / Region:

Application:

[Get Report](#)

daily download details

Hangover Helper

view: [daily](#) | **[cumulative](#)** | [data](#)



Ratings

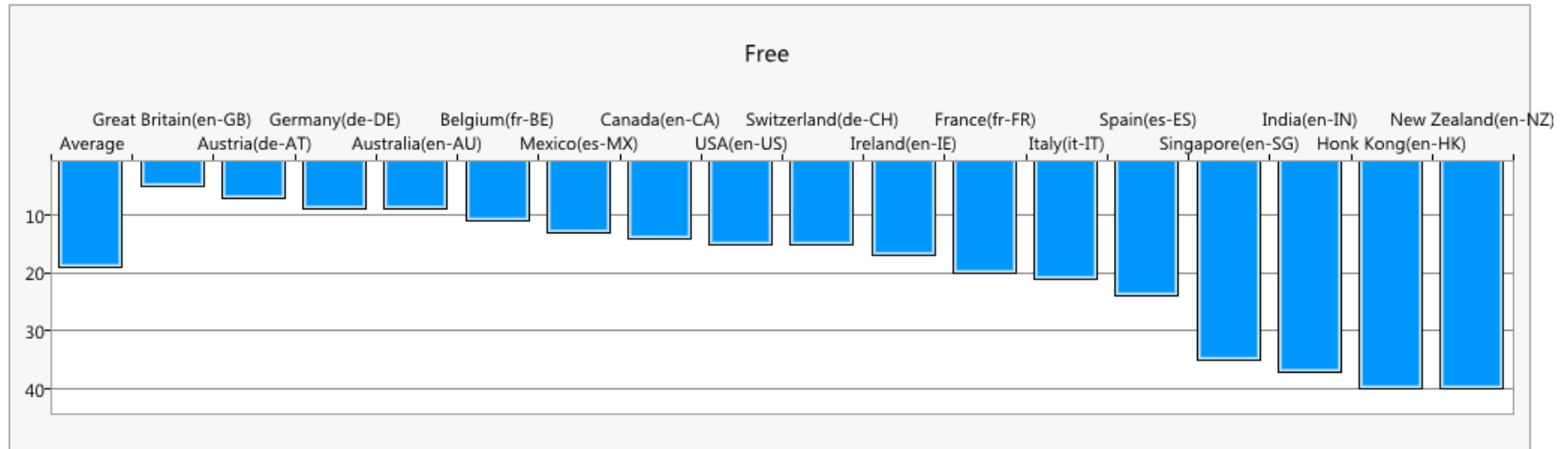
<http://sorokoletov.com/ztop>

Hangover Helper

TotalRating **Social**

Average Position in all regions and costs: 21.00

Average Jump in all regions and costs:



Reviews

<http://wp7reviews.tomverhoeff.com>

09-02-2011	Crellis	10		Brilliant idea, good functions and witty. Great app.
03-02-2011	Joueur184898374	10		
07-01-2011	Marshal stretch	8		Une application très originale et Drôle par contre tout en anglais
06-01-2011	Joueur458273468	10		Enfin une application utile. Et qui fais tout a notre place. :D
03-01-2011	Fearou	8		Amusant.
18-12-2010	courtax92	10		
11-12-2010	Joueur882208029	6		Lui c est marrand
06-12-2010	Tromatojuice	8		Absolument génial autant que décadent... Dommage qu'il n'y ait pas de traduction française, mais je me suis bien marré quand même!
20-02-2011	hunt3r vs phiL	10		Lol ... Das ist echt einmalig :-)
19-02-2011	TulpeComic4758	10		Mehr als mit diesem Prog kann das Handy nicht für einen tun, wenn man verkatert
17-02-2011	PicNik10	10		Geil

Rejection

- Sorry, your app was rejected due to "Certain Types of Illegal Activity"

"Any content that facilitates or promotes underage drinking, consumption of illegal drugs, or socially irresponsible behavior due to alcohol or drug consumption (e.g., drinking and driving)."

Den går ikke!

ngover
photos

You probably can't remember what happened yesterday. We'll fix that. Review your pictures from last night:

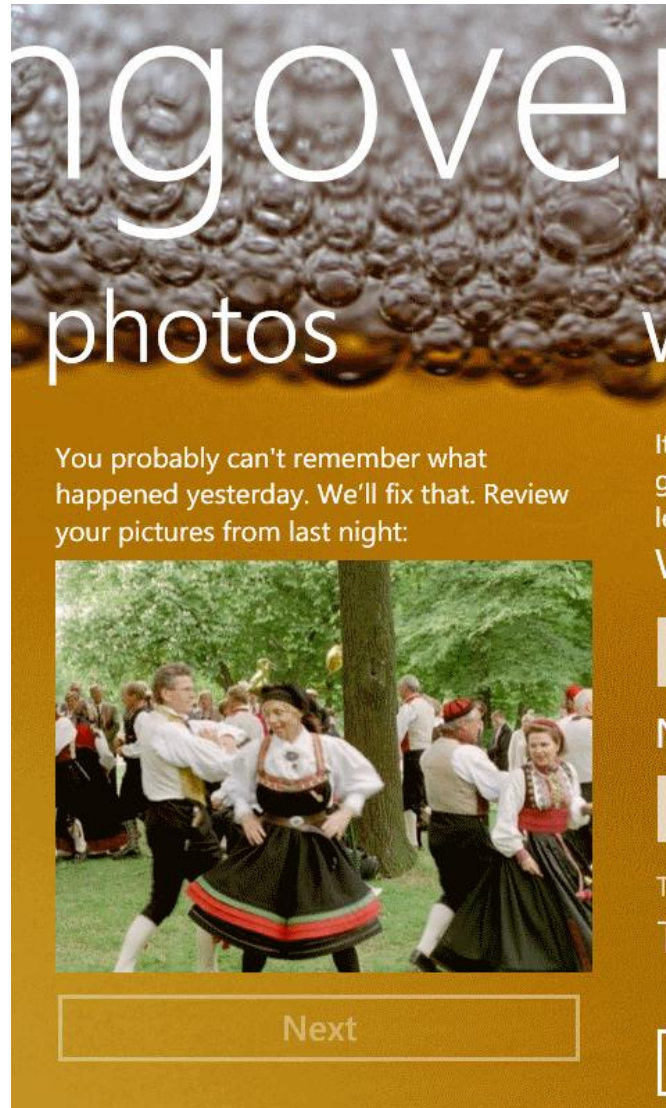


Next

It's
gu
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Svensk Folkedans holder 100%

Helpful
Tips



Den "gode" rejection

Windows® Phone Marketplace

Certification Test Results

Application Details	Application Test Details
Name: TogPlan	Testplan(s): Baseline, Networking
Version: 1.0	Language(s): English
Test ID: 29385	Result: FAILED
Submission Date: 1/10/2011 5:31:13PM	
Application: File.zip	

Technical

5.5 Content Validation

5.5	
Requirements Content validation includes the evaluation of the metadata that describes the application as well as the UI text and media within the application. For example, an application that is submitted in French requires a product description in French. In addition to evaluating the description, the certification process reviews UI text, screenshots, and icons, in French. Additional content validation criteria are described in Section 3.0. The application content (e.g. text, visual elements) must be visible and legible regardless of the phone theme. For example, if the phone theme changes from black background to white background, the text and visual elements of your application must be visible or legible.	Expected Result Testing Overview: The application, the metadata, and the media files associated with the application must be in the targeted language. Test Process Required: Application testing: 1. Launch the application. 2. Thoroughly execute application features and functionality, ensuring that the application displays in the targeted language and the target language and meets the requirements listed in Section 2 and 3 of the Windows Phone 7 Application Certification Requirements. 3. Use multiple phone themes and ensure that the application text and visual elements are viewable and legible.

Små tips



Helpful
Tips

- Add as link class lib.
- Database: Sterling, linq2xml
- Textbox Inputscope: "DateDay", "Number", "text", "email" osv... (ingen enum ☹)

Pause

iPhone - 2007

Ha ha, se, jeg
drikker en fadøl!



iPad - 2010

Ha ha, se,
jeg drikker
en stor fadøl!



Apples banebrydende teknologi har
løftet menneskeheden til et nyt stadie

iScreen 2015

Ha ha, se,
jeg drikker
en kæmpe
fadøl!



Pause



Pause

