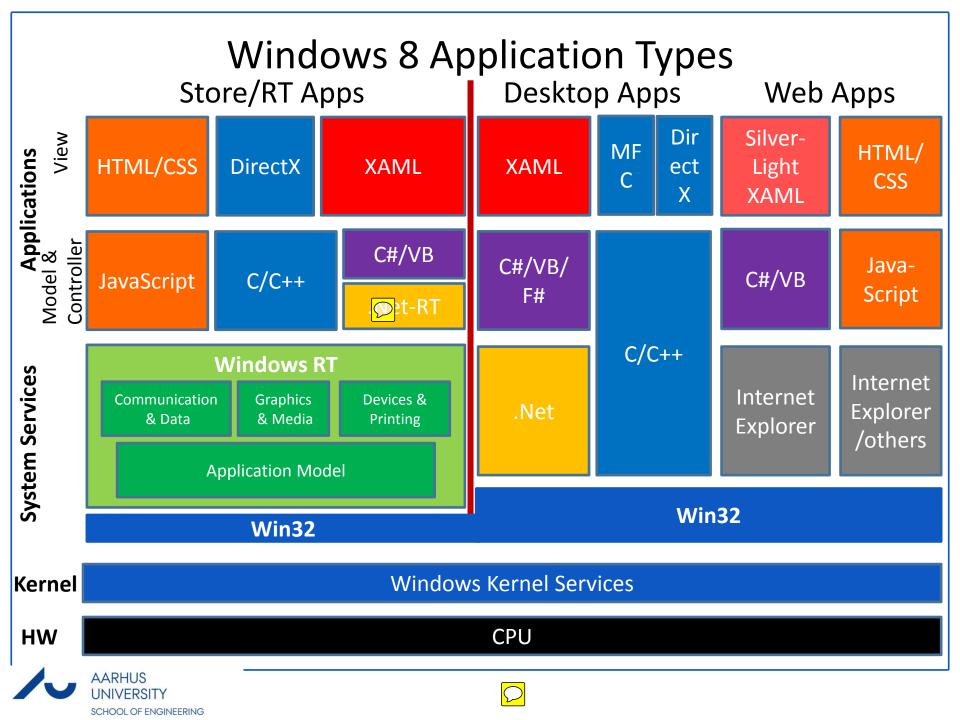
Windows 8 Store App Development





Windows Store Apps

- Windows 8 introduces a new type of application:
 - the Windows Store App.
- Windows Store apps:
 - have a brand new look and feel,
 - run on a variety of devices, and
 - you sell them on the Windows Store.





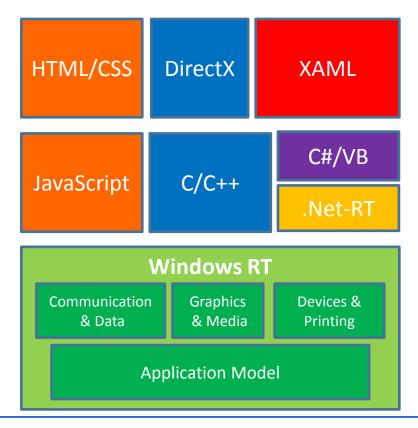
Store vs. L-O-B

- Windows apps can be very broadly classified into consumer applications and enterprise line-of-business applications.
 - But there are lots of gray areas in between.
- Consumer apps can only be distribute through the Windows Store.
 - It provides developers with a channel through which their Windows Store apps can be discovered by users.
- Enterprise L-O-B apps can be distribute through side-loading or an enterprise app store.
- The Windows Store accepts only Windows Store apps.
- Because each Windows Store app declares its prerequisites, the Windows Store can inform users about system and software requirements so that they do not purchase apps that they won't be able to run.



Language Choices

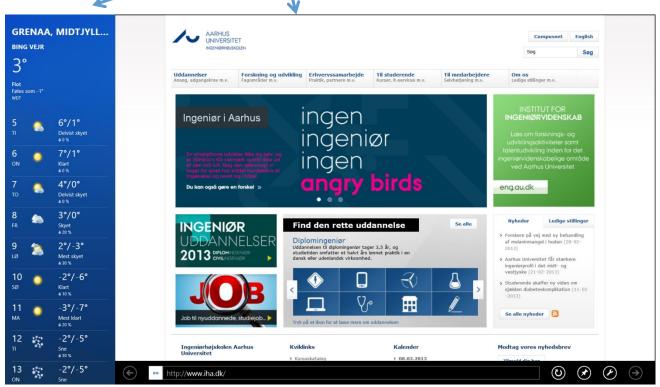
- You can develop Windows Store apps in a variety of languages:
 - Using XAML, with code-behind in C++, C#, or Visual Basic.
 - Using HTML5, Cascading Style Sheets, Level 3 (CSS3), and JavaScript.
 - Using DirectX and native C++ to take full advantage of graphics hardware.





One Window

- Apps have one window that supports multiple views.
- Apps have a single, chromeless window that fills the entire screen by default, so there are no distractions.
- A window may be snapped, filled or in portrait mode.





Different Form Factors

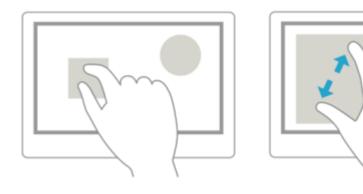
 A Windows Store app can support different layouts and views to create a fluid and harmonious experience across a variety of form factors and display sizes.





Touch And Pen Input

- Windows Store apps work smoothly with a variety of input sources, including touch, pen, mouse, and keyboard input.
- You can use a single set of events that work for all these input sources.





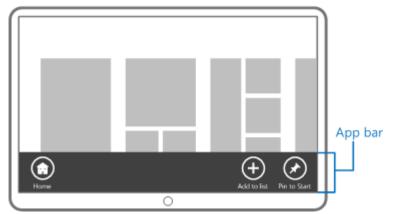
Apps can talk to each other

- App contracts are a way for users to seamlessly search across and share content between different apps.
- They extend the usefulness of your app by eliminating the need to work with varying standards or app-specific APIs to access data stored or created by another app.



The App Bar

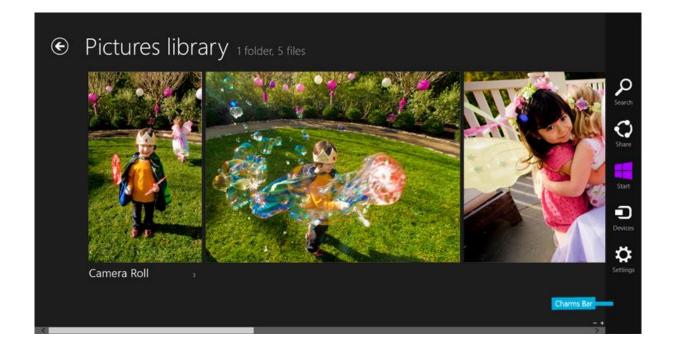
- Outside of the app window, the app bar is the primary command interface for your app.
- Use the app bar to present navigation, commands, and tools to users.
- The app bar is hidden by default and appears when users swipe a finger from the top or bottom edge of the screen.
- It covers the content of the app and a user can dismiss it with an edge swipe, or by interacting with the app.





The Charms

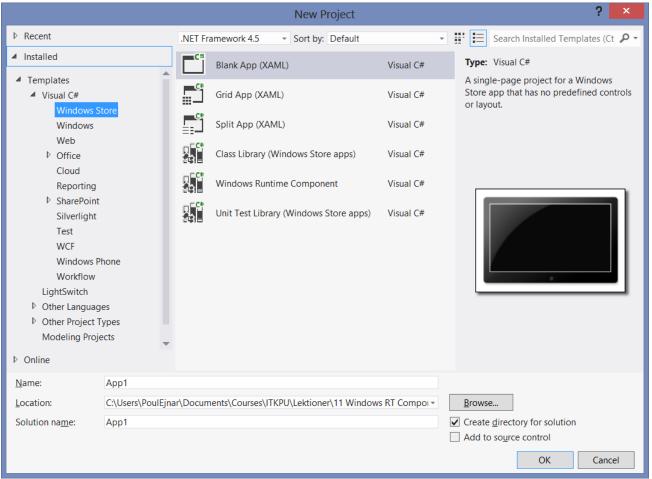
- The charms are a specific and consistent set of buttons in every app:
 - search
 - share
 - connect
 - settings
 - start





Preconditions

- Windows 8 Modern apps can only be developed on Windows 8!
- And with Visual Studio 2012.





Microsoft Account

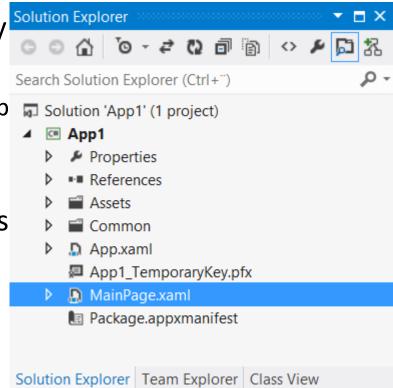
- The first time you create a Windows 8 app on your machine, you'll be prompted to create a developer license.
- This is free, and is granted for 30 days for non-store use and 90 days if you have a Windows Store account.
- Renewing is painless as long as you have an internet connection.





Template Solution Items

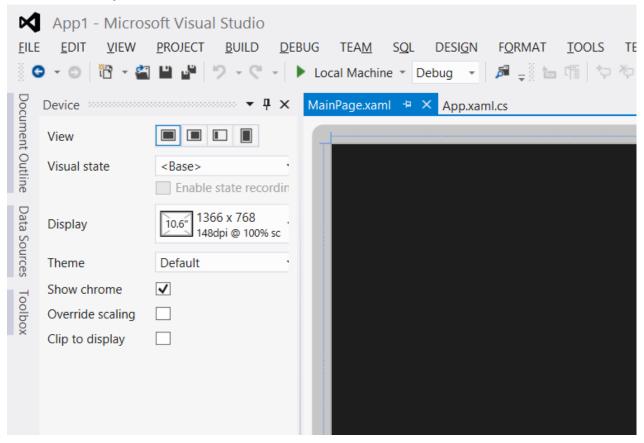
- The Common folder contains the very important StandardStyles.xaml file.
 - This is where the Windows 8 modern app styles reside.
 - Don't Mess with the Standard Styles.
- The Assets folder contains the various application images.
- The Package.appxmanifest" file is where you specify the runtime configuration for your application, including the logos, supported orientations, background color, capabilities and declarations.





The Device Pane

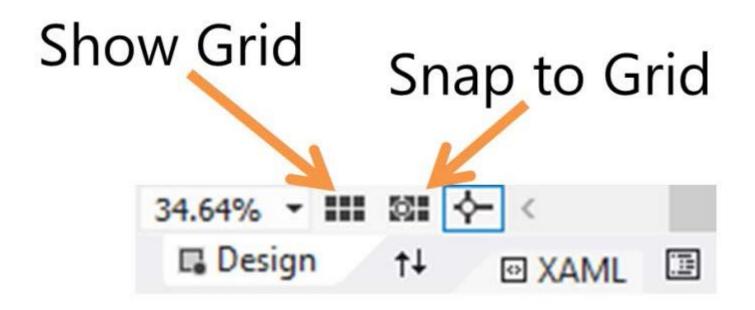
- Open MainPage.xaml and you'll see the design surface and the usual developer window panes.
- The Device window panel is new.





The Layout Grid

- Modern Style apps are laid out on a 20 pixel grid.
 - Each 20 pixel square is called a "unit".
- The grid is further subdivided into 5x5 pixel squares to assist with spacing of elements.





PACKAGING FOR WINDOWS STORE APPS



App Package

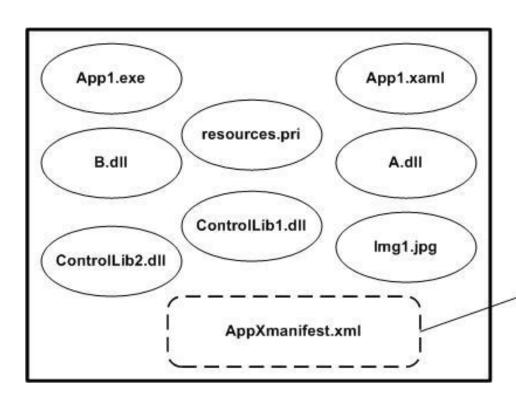
- A Windows Store app is deployed in an app package,
 - which is a compressed file that contains the files that make up the app,
 - along with a manifest that describes the app to Windows.
- An app package has an identity that includes:
 - name,
 - publisher,
 - version, and
 - other information.
- The app package is the unit of deployment and servicing.
- You write the app, and Visual Studio and Windows take care of packaging and deploying it.
 - All files that your app needs ship with your app.



App Manifest

- The manifest explicitly declares the package's:
 - prerequisites,
 - dependencies on other app packages,
 - requested capabilities, and
 - OS integration points.
- The manifest enables Windows to understand the software's footprint on the system and to cleanly remove the software on behalf of the developer.
- Frictionless deployment and the ability to uninstall software easily brings Windows client apps closer to the cleaner, low-impact world of web apps.

App Package Example



Package Name = Me.MyApp
Publisher = Me
Architecture = x86
Resource ID = ""
Version = 1.0.0.0

