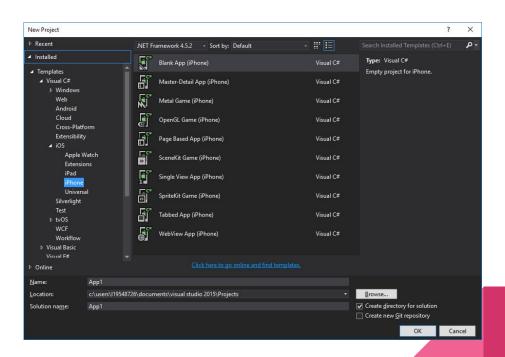
# Xamarin Hands-on

A guide through Xamarin Forms and Xamarin Native

#### Why using Xamarin Native instead of Forms?

- Smaller application size
- Improved performance
- Easier to create a more "direct" native user interface
- Code syntax more similar to "true" native syntax

#### Adding a new Xamarin iOS Native project



### Application setup (iOS)

- References & NuGets
- Application Bootstrapper Registration of platform specific concretizations

# View Types

iOS	Android
UIViewController	Activity
UINavigationController	Activity with FragmentManager
UIViewController	Fragment

### Control naming iOS vs Android

iOS	Android
UIButton	Button
UILabel	TextView
UITextField	EditText
UISwitch	CheckBox
UllmageView	ImageView

#### Creating the first UIViewController

- Create UI controls programmatically in ViewDidLoad
- Remember to add created views to the View
- "No" logic in the actual View, just delegate to the view model
- Responding to notifications from the ViewModel
- Displaying the view controller as the first view from AppDelegate

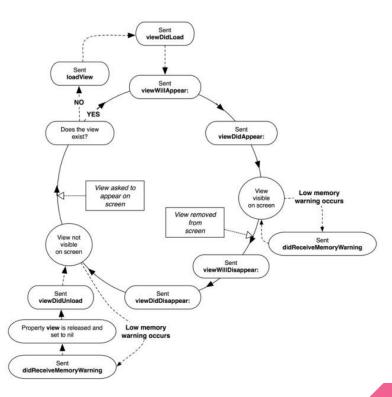
#### Opening a view from a ViewModel

Implement OpenPage()

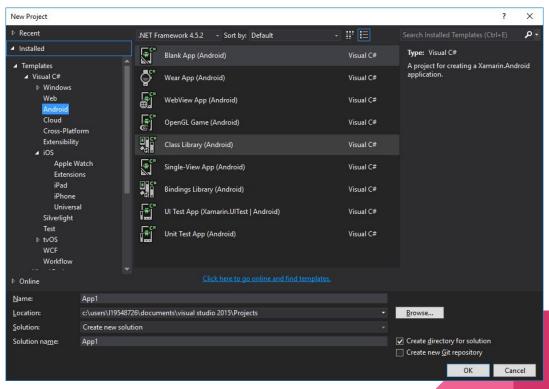
## UITableView vs RecyclerView (ListView)

iOS	Android
UITableView	RecyclerView
UITableViewSource	Adapter
UITableViewCell	ViewHolder & Cell layout

## iOS view lifecycle



#### Adding a new Xamarin Android native project



### Application setup (Android)

- References & NuGets
- Application Bootstrapper Registration of platform specific concretizations
- Directory structure

# View Types

iOS	Android
UIViewController	Activity
UINavigationController	Activity with FragmentManager
UIViewController	Fragment

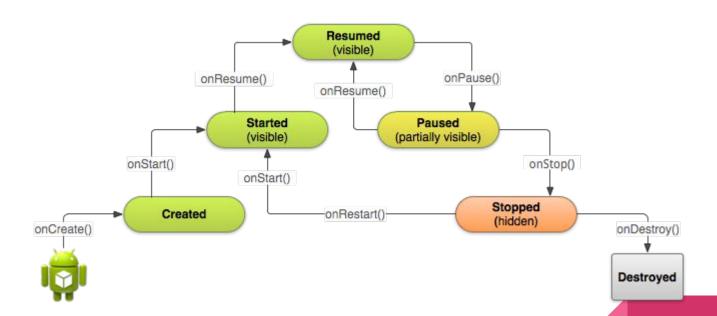
### Control naming iOS vs Android

iOS	Android
UlButton	Button
UILabel	TextView
UITextField	EditText
UISwitch	CheckBox
UllmageView	ImageView

#### Creating the first Activity

- Create UI controls via the designer (XML)
- Connecting controls from the layout to the code
- "No" logic in the actual View, just delegate to the view model

### Android Activity lifecycle



#### Opening a view from a ViewModel

- Implement OpenPage()
- Create an Activity using Class.FromType, not Activator

### UITableView vs RecyclerView (ListView)

iOS	Android
UITableView	RecyclerView
UITableViewSource	Adapter
UITableViewCell	ViewHolder & Cell layout

#### Can we extend this even further?

Let's try to convert it to WPF!

#### Download the code & contact

https://github.com/MikaelStalvik/SwenugDemo

mikael.stalvik@lindex.com