

Extending Our Application's Architecture with Advanced Features



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ARCHITECT

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Agenda



Showing Dialogs

Working with the Life Cycle

Using Plugins

Messaging with IMvxMessenger

Showing Sites with the Browser plugin

Checking Connectivity

Translating the Views



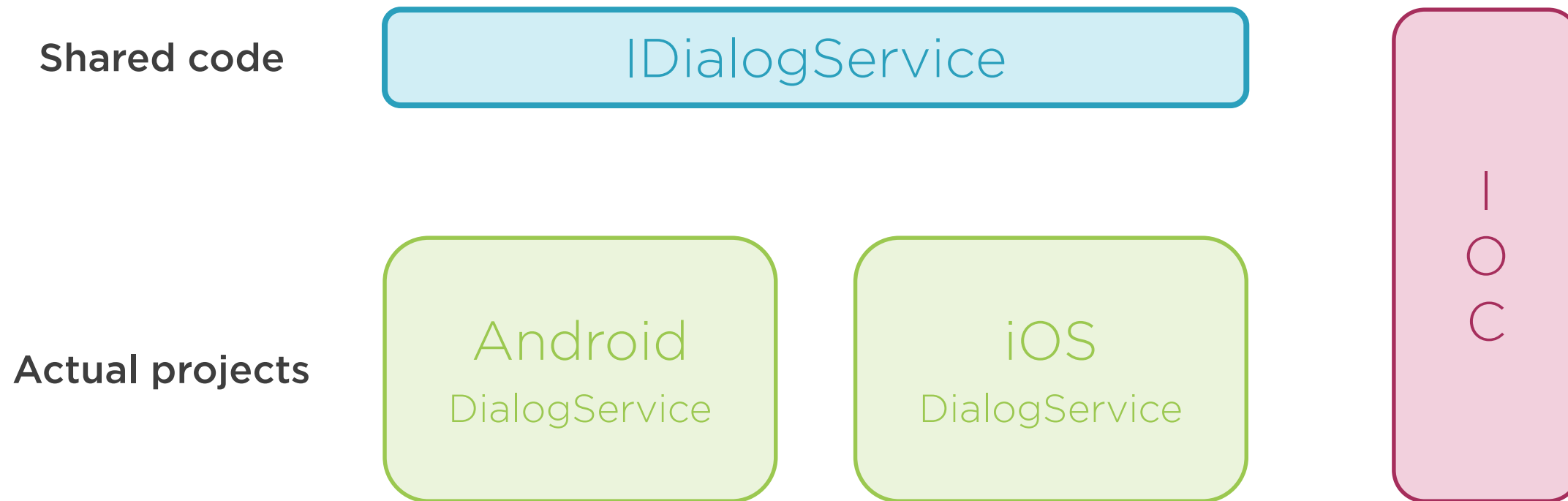
Showing Dialogs



The Problem



Showing Dialogs



Demo



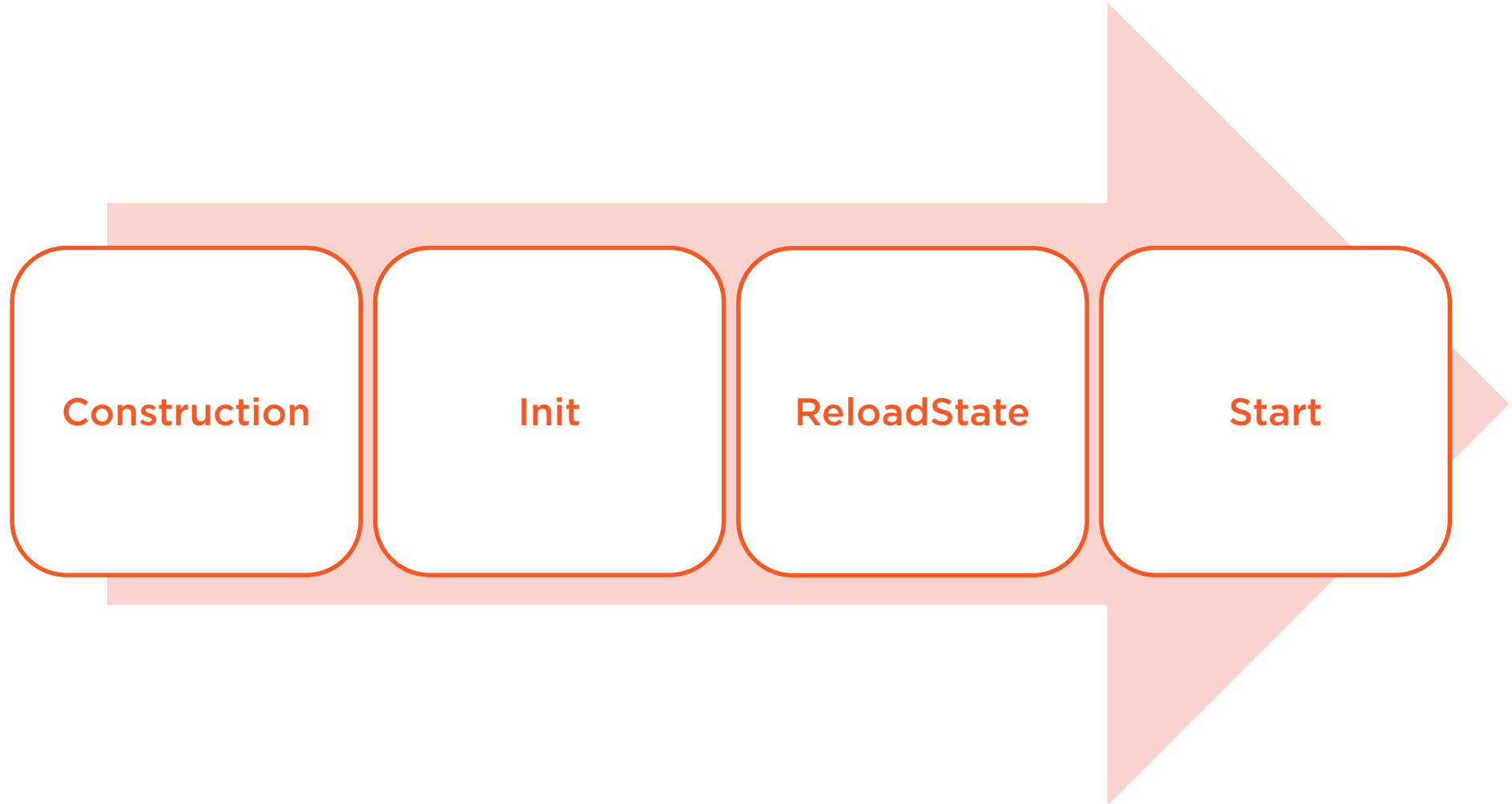
Showing Dialogs



Working with the Life Cycle



MvvmCross Life Cycle



Demo



Working with the Life Cycle



Using Plugins



Plugins

Extend
functionality

Based on IOC

Can be shared or
platform-specific

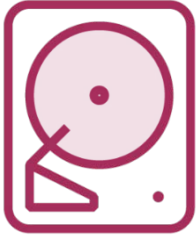
Loaded using
`IMvxPluginManager`

Extension point

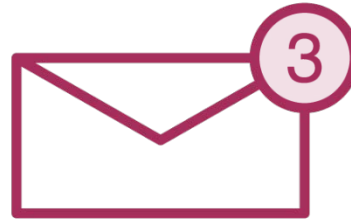
Added via NuGet



Existing Plugins



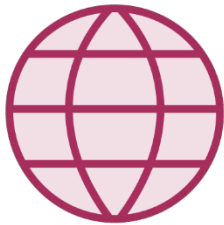
Sqlite



Email



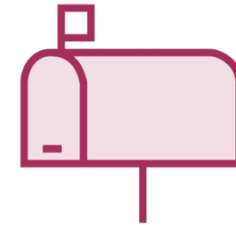
File



Location



Localization



Messenger



Demo



MvvmCross Plugins



Messaging with IMvxMessenger



Recap: View Model Messaging



IMvxMessenger

```
public interface IMvxMessenger
{
    void Publish(MvxMessage message);

    MvxSubscriptionToken Subscribe<TMessage>
        (Action<TMessage> deliveryAction,
         MvxReference reference = MvxReference.Weak,
         string tag = null) where TMessage : MvxMessage;
}
```



Messenger.Publish

```
(new CurrencyChangedMessage(this)  
    { NewCurrency = ActiveCurrency });
```

Publishing Messages



```
private void InitializeMessenger()  
{  
    Messenger.Subscribe<CurrencyChangedMessage>  
        (async message => await ReloadDataAsync());  
}
```

Subscribing for Messages



Demo



Messaging using IMvxMessenger



Showing Sites with the Browser Plugin



Demo



Showing Sites with the Browser plugin



Checking Connectivity



Demo



Checking Connectivity



Translating the Views



Options for Translations

.json files

.resx files

**Own
implementation**



```
public class BaseViewModel : MvxViewModel, IDisposable
{
    public IMvxLanguageBinder TextSource
        => new MvxLanguageBinder("", GetType().Name);
}
```

Using Resource Files



```
<TextView  
    android:id="@+id/DepartureDateTitleTextView"  
    local:MvxLang="Text JourneyDetailTitleTextView,  
    Source=TextSource" />
```

Translating in Android



```
var set = this.CreateBindingSet<JourneyDetailView,  
JourneyDetailViewModel>();  
  
//Translations  
set.Bind(JourneyDetailsViewTitle).To(vm => vm.TextSource)  
    .WithConversion(new MvxLanguageConverter(),  
        "JourneyDetailTitleTextView");
```

Translating in iOS



Demo



Translating the Views



Summary



Cross-platform functionality

Plugins can help us add complex features with ease

