

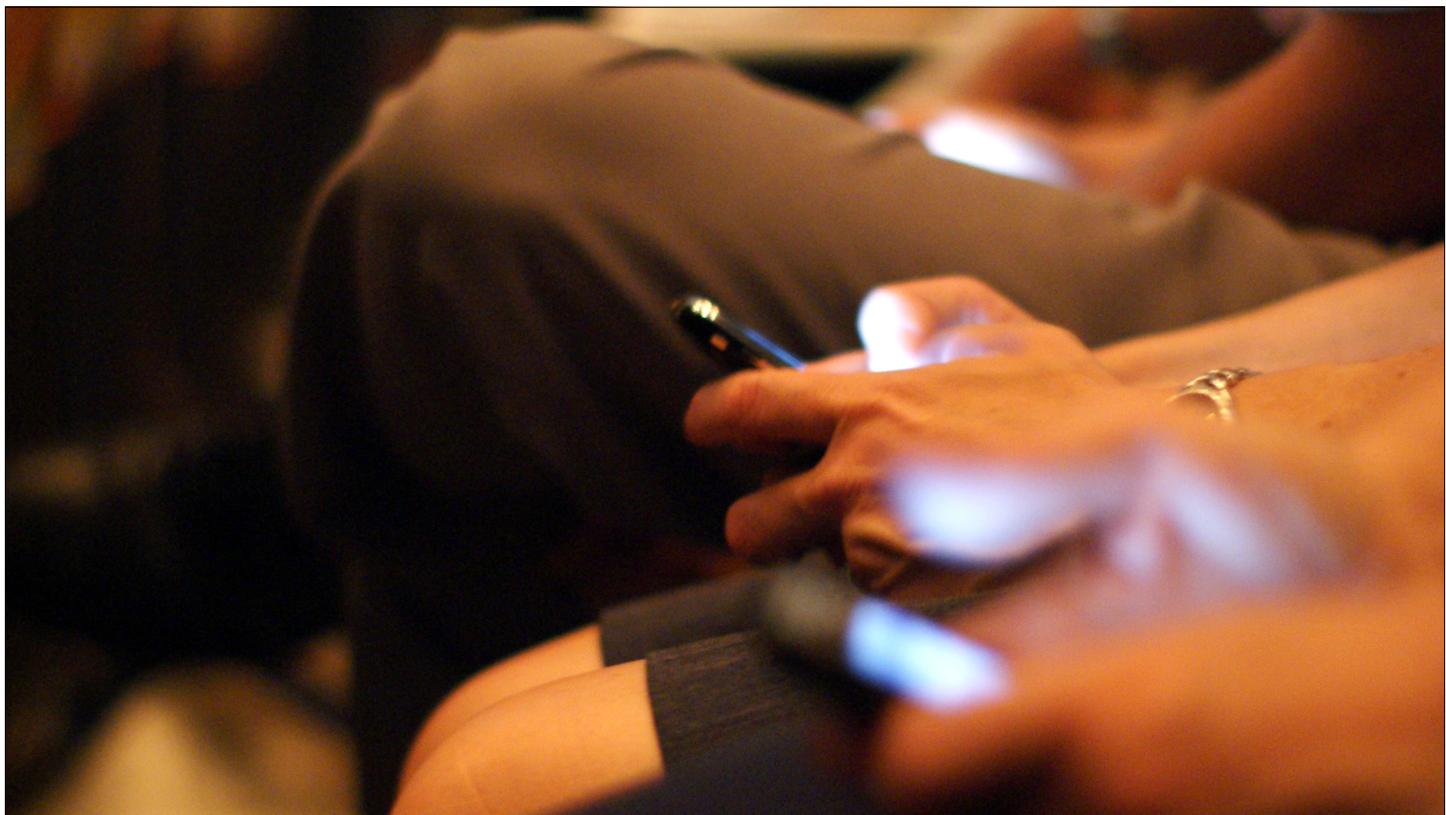
Xamarin Evolve 2014



# Navigation Patterns in Xamarin.Forms



Rob Gibbens  
[rob.gibbens@xamarin.com](mailto:rob.gibbens@xamarin.com)  
[@RobGibbens](https://twitter.com/RobGibbens)



# Agenda

1. Navigation Page
2. Tabbed Page
3. Master/Detail Page
4. Carousel Page

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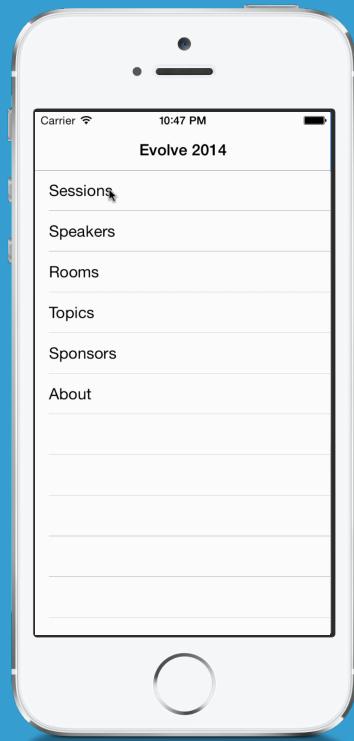
## Navigation Page

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# Navigation Page

- Stack-based navigation is built into Xamarin.Forms through the use of the `NavigationPage` class
- Acts as a *parent* to any number of child pages
- Maintains a *stack* of children where the topmost child is visible to the user

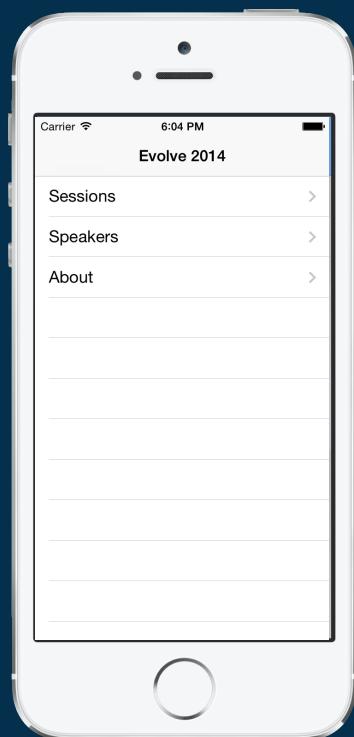
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# Navigation Page

```
public static class App
{
    public static Page Get MainPage ()
    {
        return new NavigationPage (new MainPage ());
    }
}
```

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## Navigation Page - Push

```
public class MainPage : ContentPage
{
    public MainPage ()
    {
        var button = new Button ();
        button.Clicked += async (sender, e) => {

            await this.Navigation.PushAsync(new SecondPage());
        };
    }
}
```

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## Navigation Page - Pop

```
public class SecondPage : ContentPage
{
    public SecondPage ()
    {
        var button = new Button ();
        button.Clicked += async (sender, e) => {

            await this.Navigation.PopAsync();
        };
    }
}
```

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# Navigation Page - Modals

```
public class ThirdPage : ContentPage
{
    public ThirdPage ()
    {
        var button = new Button ();
        button.Clicked += async (sender, e) => {

            await this.Navigation.PushModalAsync(new MyModalPage());
        };
    }
}
```

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# Demo

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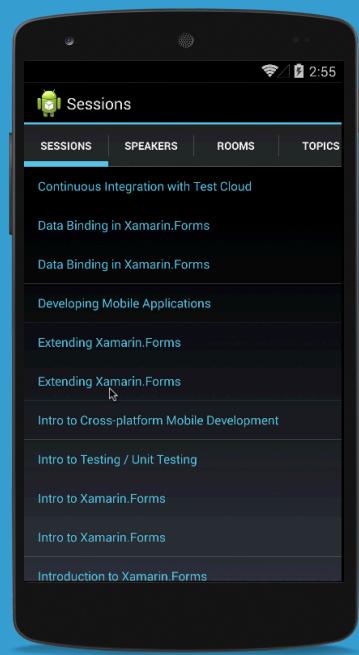


## Tabbed Page

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# Tabbed Page

- TabbedPage is used to create tabbed-interface
- User selects which tab to “activate”
- Can switch between tabs interactively



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# Tabbed Page

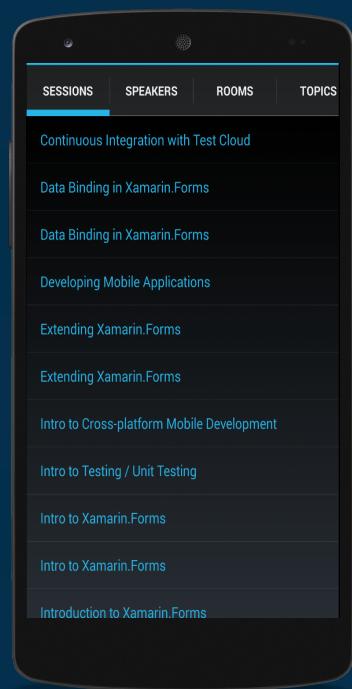
```
public class MyTabPage : TabbedPage
{
    public MyTabPage ()
    {
        // Add tabs
    }
}
```



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# Tabbed Page

```
public class MyTabPage : TabbedPage
{
    public MyTabPage ()
    {
        this.Children.Add (new Tab1Page ());
        this.Children.Add (new Tab2Page ());
        this.Children.Add (new Tab3Page ());
        this.Children.Add (new Tab4Page ());
    }
}
```



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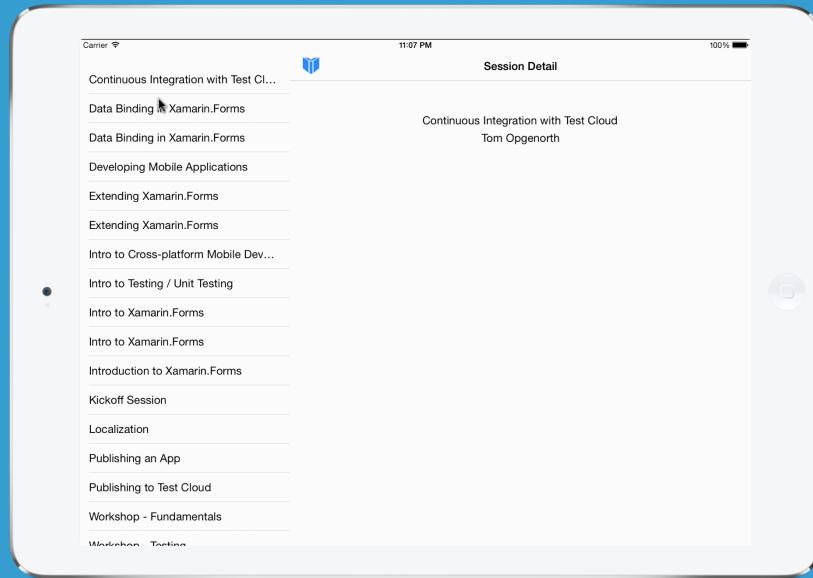
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## Master Detail Page

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# Master Detail Page



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# Master Detail Page

```
public class EvolveMasterDetailPage : MasterDetailPage
{
    public EvolveMasterDetailPage ()
    {
        this.Master = new SessionsMenuPage ();
        this.Detail = new NavigationPage (new DetailPage ());
    }
}
```

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# Master Detail Page

```
public class EvolveMasterDetailPage : MasterDetailPage
{
    public EvolveMasterDetailPage ()
    {
        this.Master = new SessionsMenuPage ();
        this.Detail = new NavigationPage (new DetailPage ());
    }
}
```

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# Cross Page Communication

```
public class SessionsMenuPage : ContentPage
{
    public SessionsMenuPage ()
    {
        // *** Set up page ***
        listView.ItemSelected += (sender, args) => {
            MessagingCenter.Send (
                new SessionSelected (args.SelectedItem as Session),
                "selected"
            );
        };
    }
}
```

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# Cross Page Communication

```
public class EvolveMasterDetailPage : MasterDetailPage
{
    public EvolveMasterDetailPage ()
    {
        // *** Set up page ***
        MessagingCenter.Subscribe<SessionSelected>
        (this, "selected", (args) => {
            var navPage = ((NavigationPage)this.Detail);
            navPage.CurrentPage.BindingContext = args.Session;
            this.IsPresented = false;
        });
    }
}
```

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# Adding menu button

```
public class SessionsMenuPage : ContentPage
{
    public SessionsMenuPage ()
    {
        Title = "Menu";
        Icon = "sessions.png";

        // *** Set up page ***
    }
}
```

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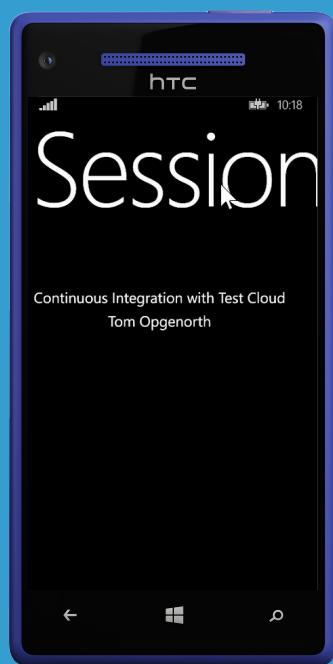
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# Carousel Page

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## Carousel Page

- Allows swipe gestures between subpages, like a gallery
- Renders as a Panorama on Windows Phone
- Unintuitive interface on iOS and Android



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# Carousel Page

```
public class SessionsCarouselPage : CarouselPage
{
    public SessionsCarouselPage ()
    {
        var sessions = Repository.GetSessions();

        foreach (var session in sessions) {
            var page = new ContentPage() { /* */ } ;

            this.Children.Add(page);
        }
    }
}
```

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A close-up photograph of a person's hand holding a gold-colored iPhone. The phone is oriented vertically, showing its back side with the Apple logo. The background is blurred, suggesting an indoor setting.

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