

Where to Find Stuff

The Talk

Code & Slides:

github.com/codemillmatt/four-beautiful-apps

Matt Soucoup – Sr. Cloud Developer Advocate @ Microsoft

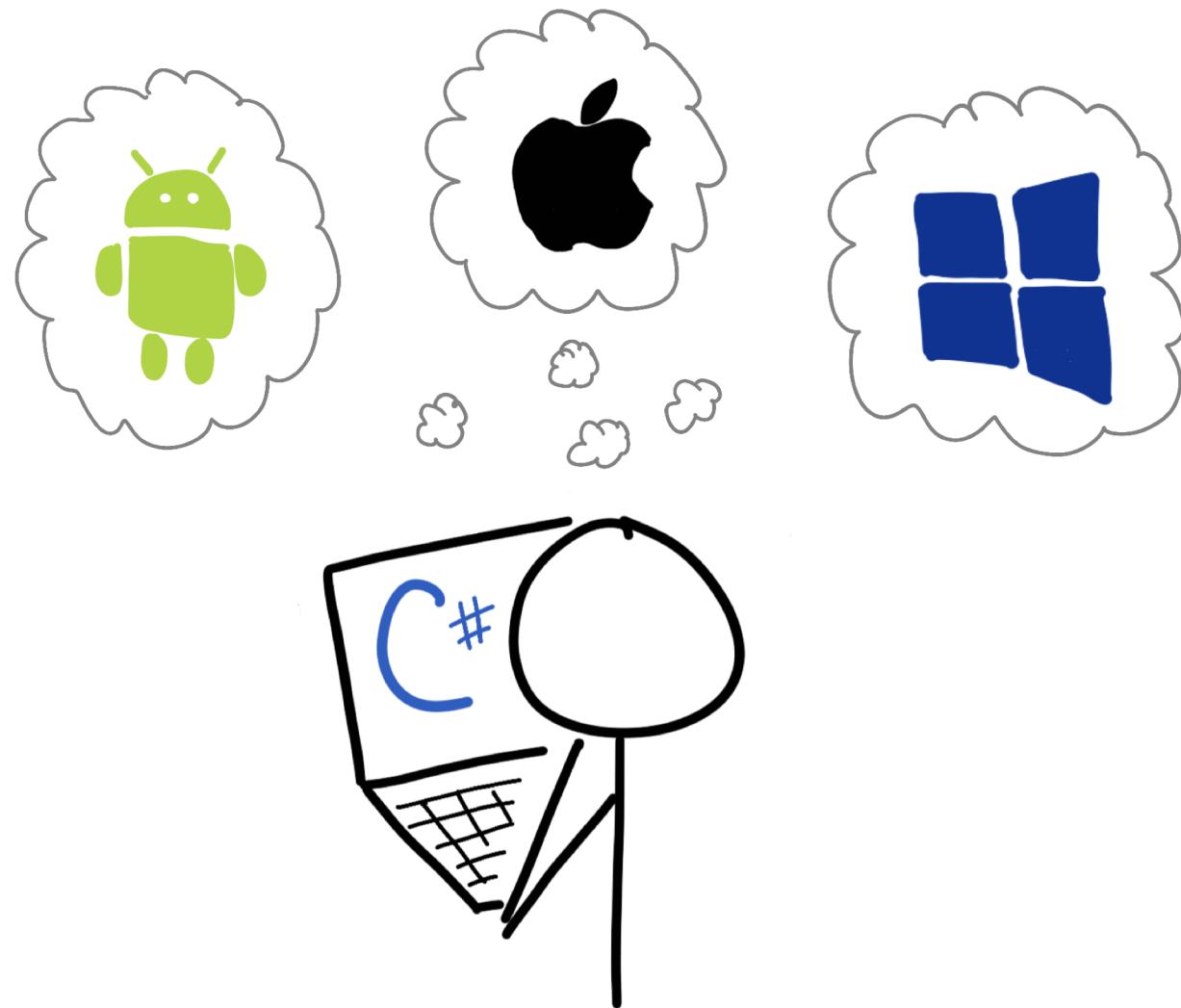
I ❤️ You

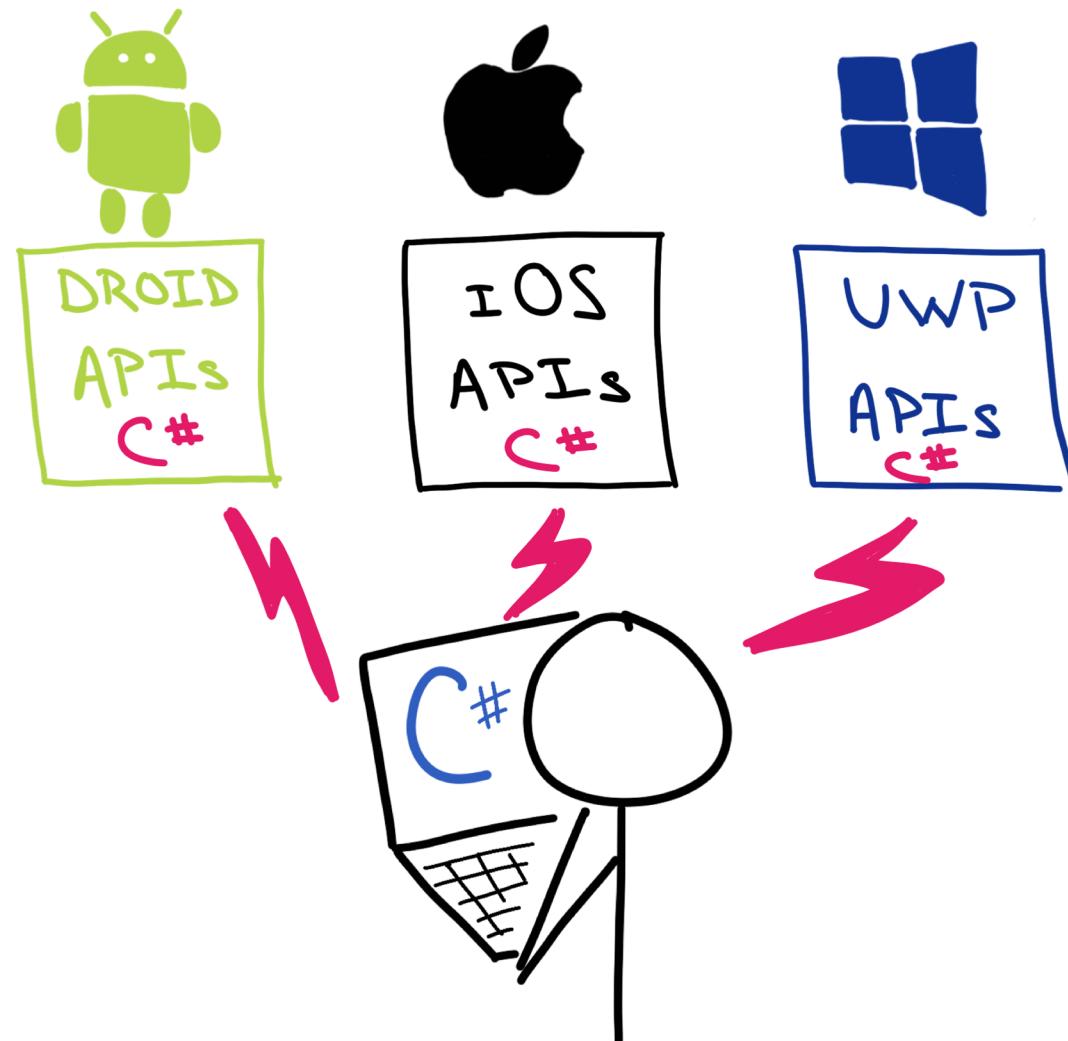
[@codemillmatt](https://twitter.com/codemillmatt)

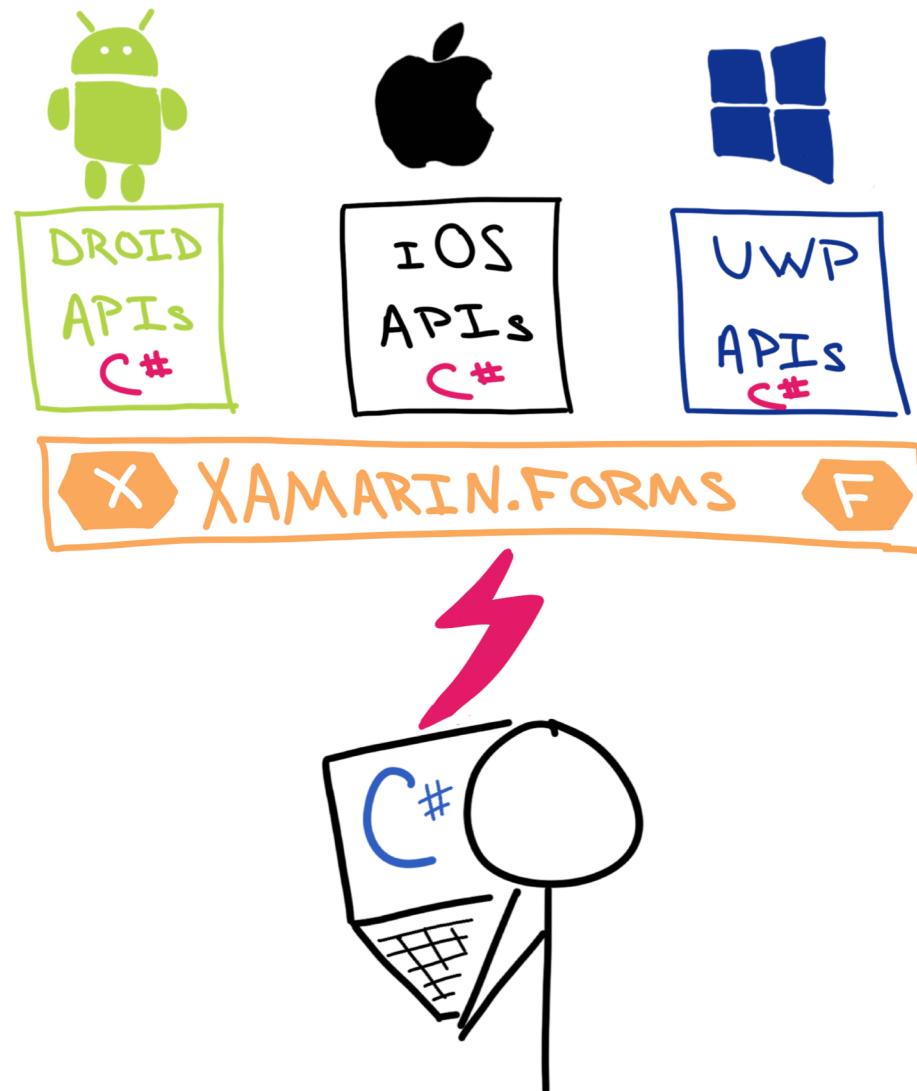
codemillmatt@microsoft.com

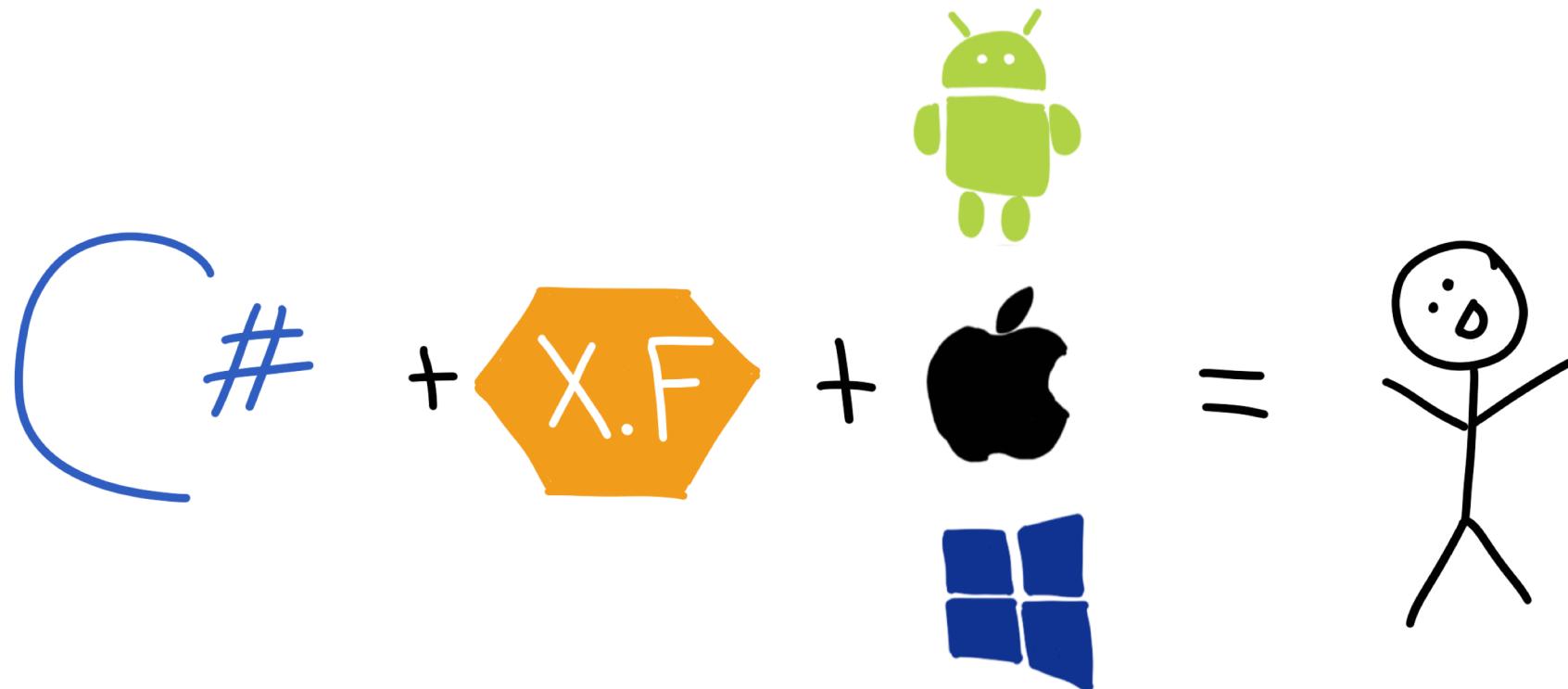
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Intro to Xamarin.Forms Agenda

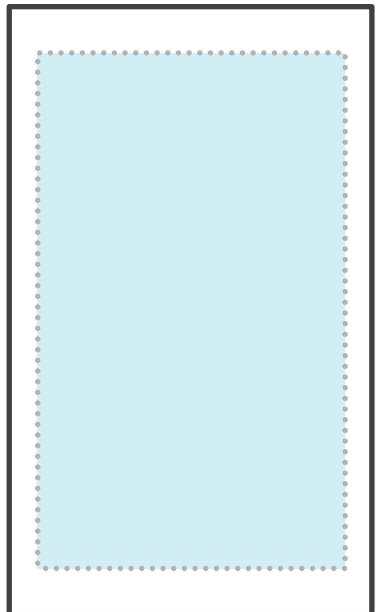
User Interface

MVVM

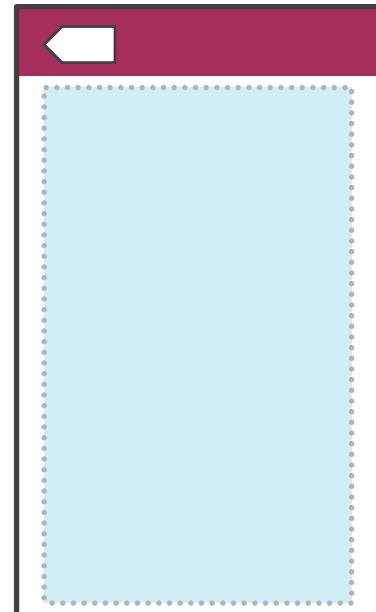
Additional
Features and
Platform Access

User Interface

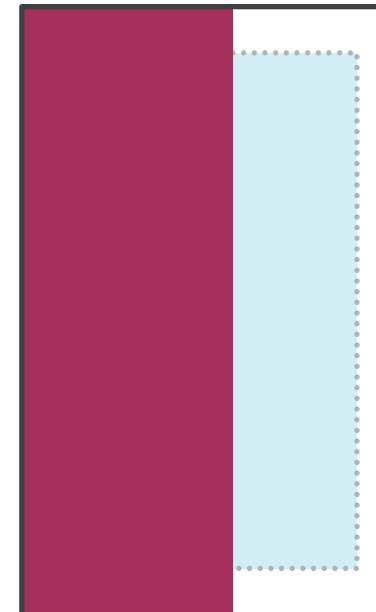
Pages



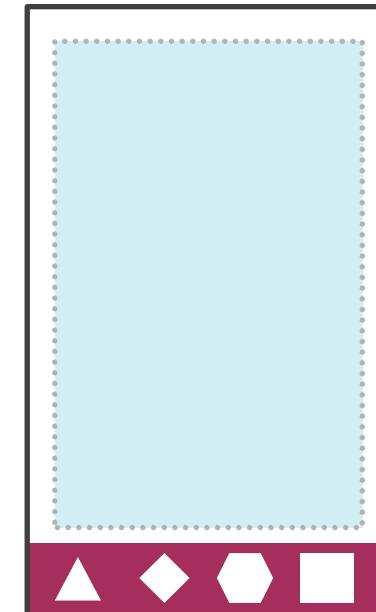
Content



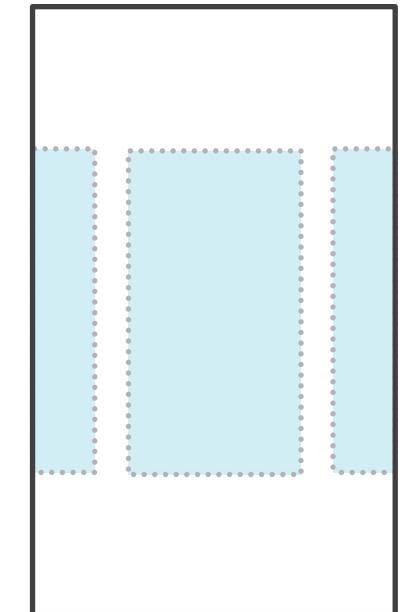
Navigation



Master/Detail

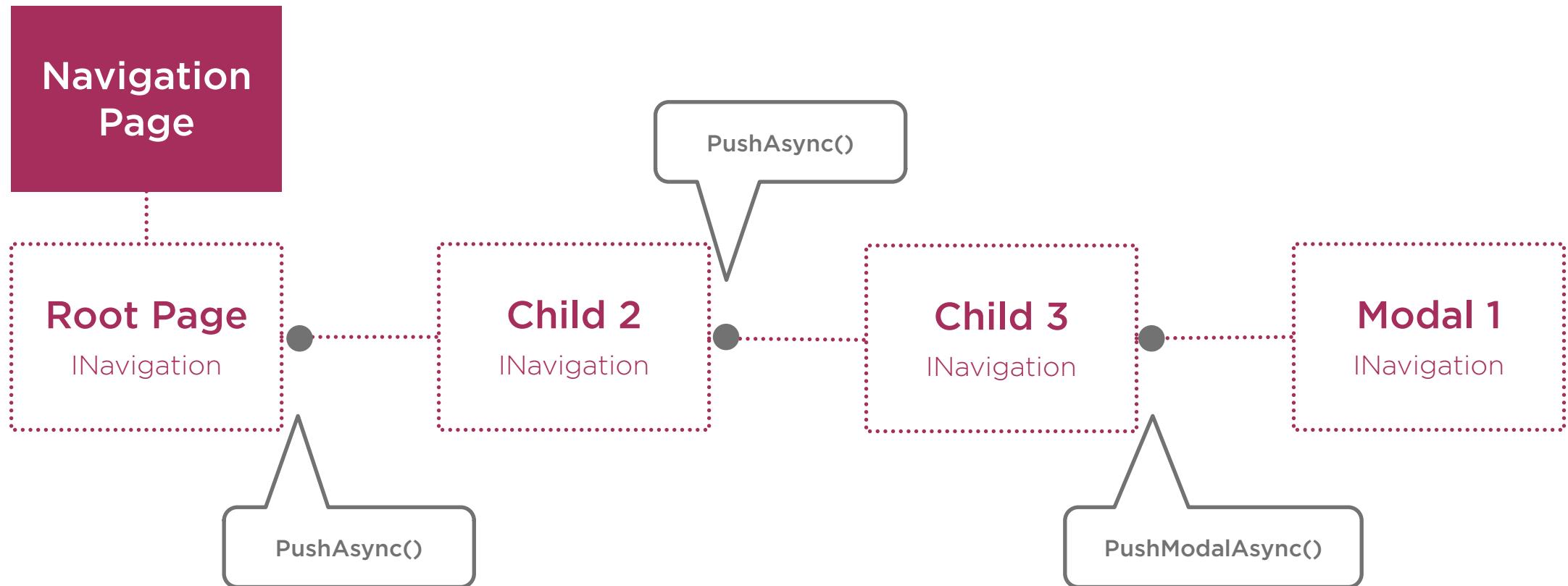


Tabbed

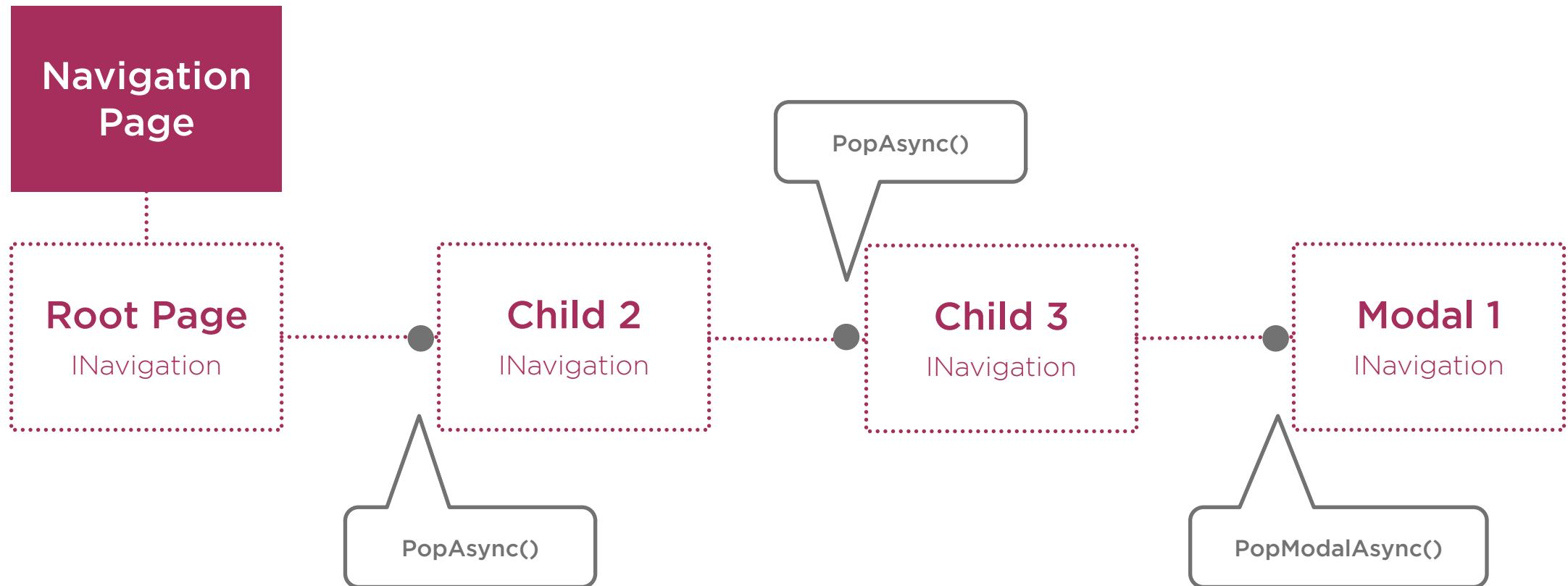


Carousel

Navigation



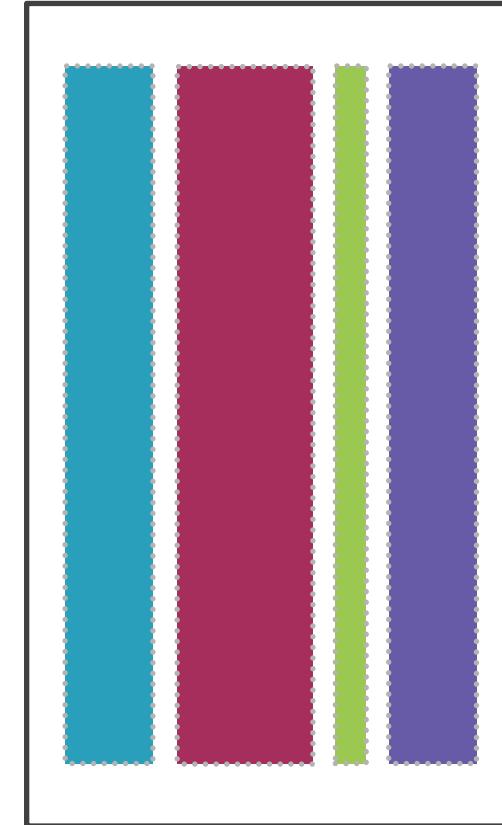
Navigation



Layouts - Stack

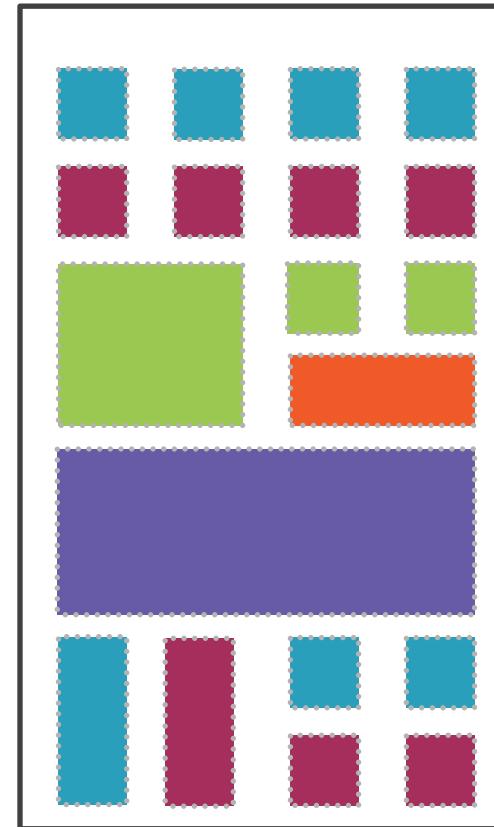


Vertical

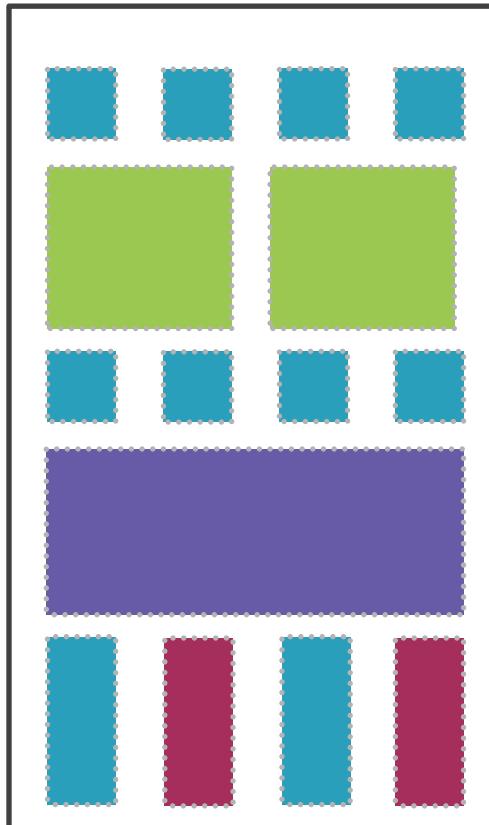


Horizontal

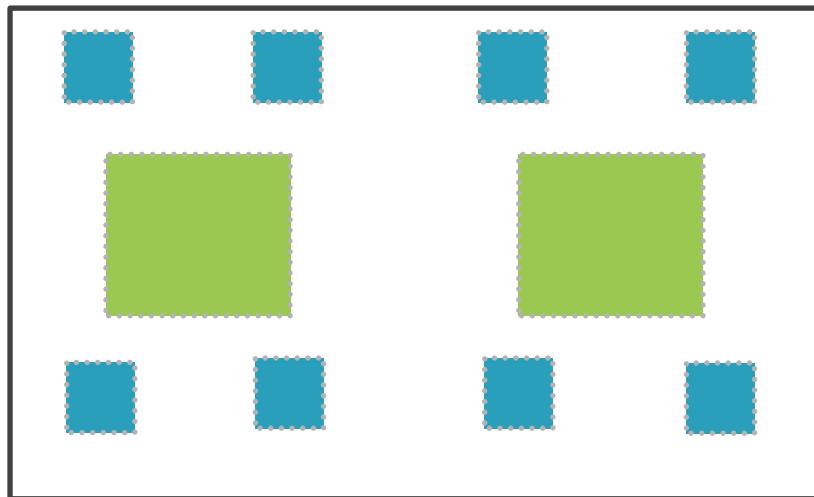
Layouts - Grid



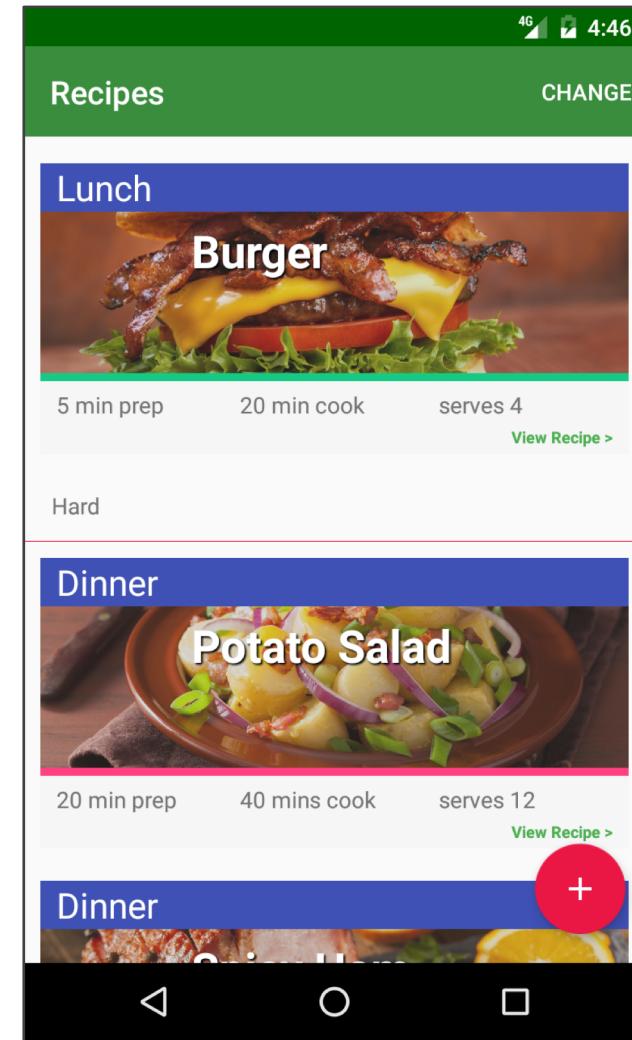
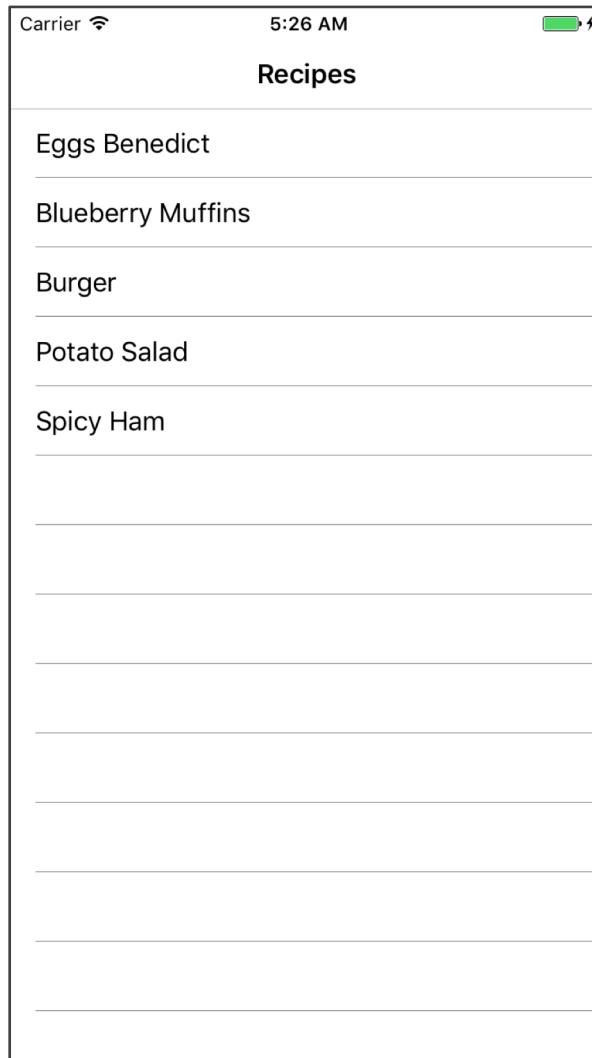
Layouts - Flex



Layouts - Flex

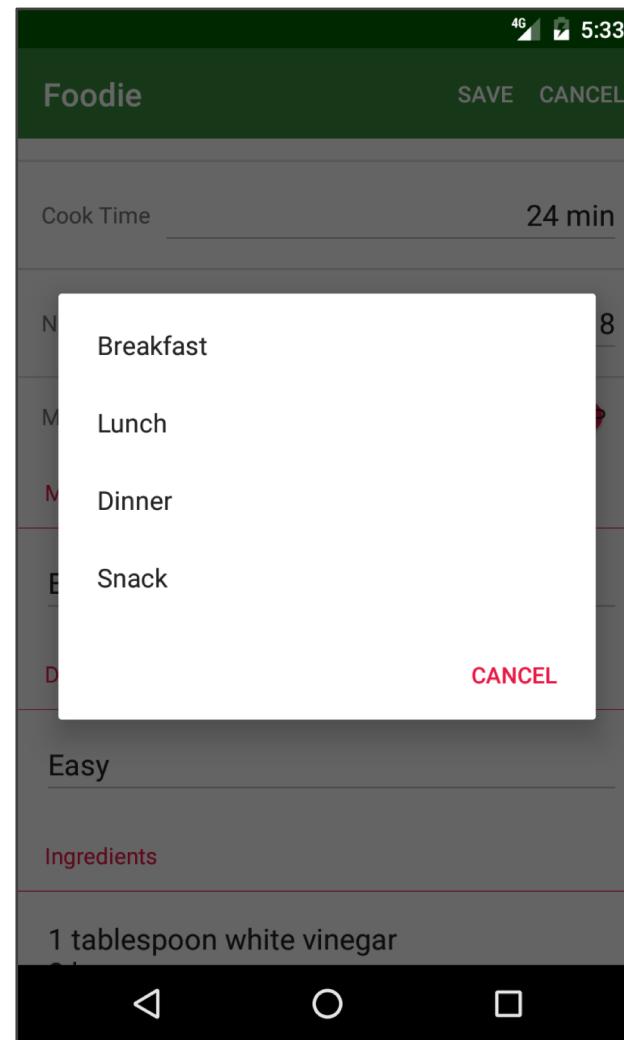
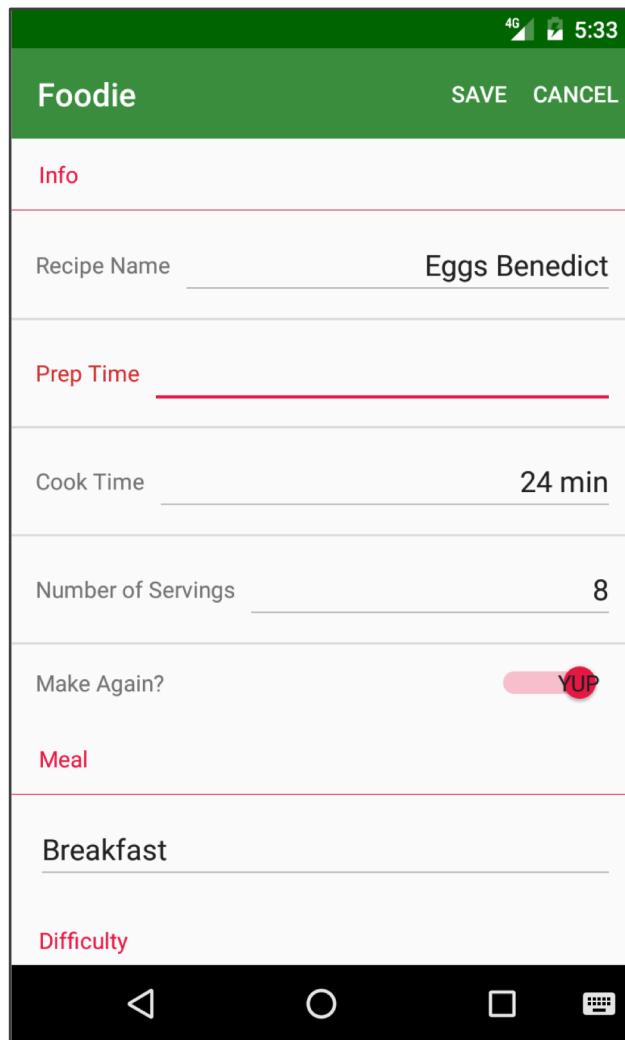


ListView



@codemillmatt

TableView



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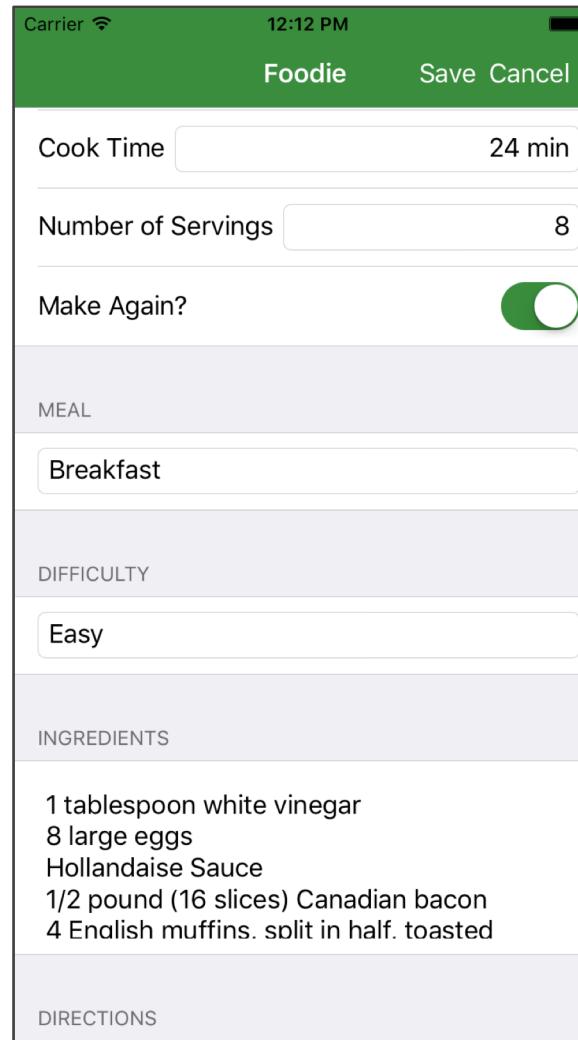
Controls



Controls

Entry

Picker



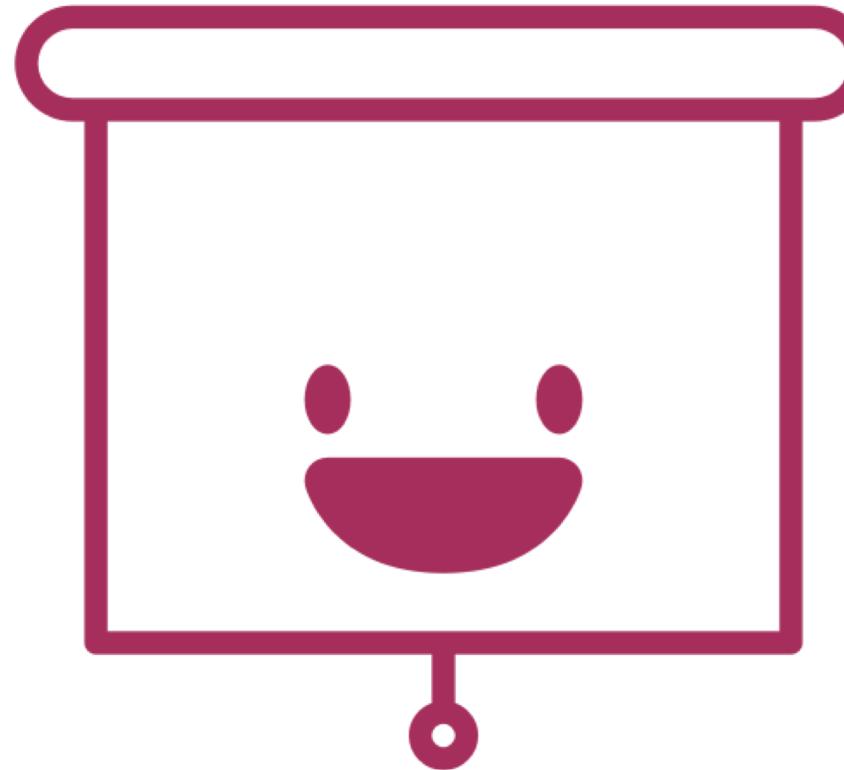
ToolbarItem

Switch

Editor

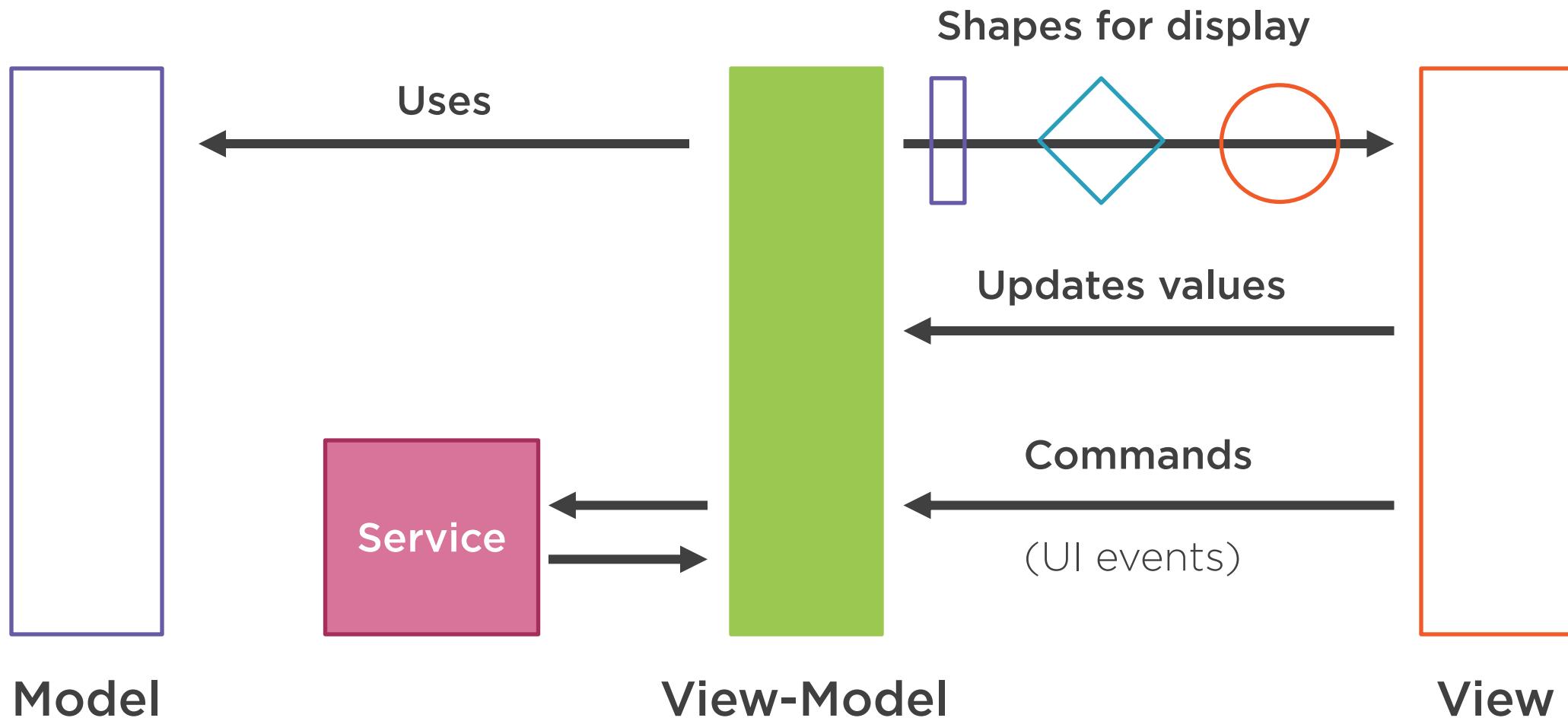
UI Demo

Controls
TableView
ListView



MVVM

MVVM

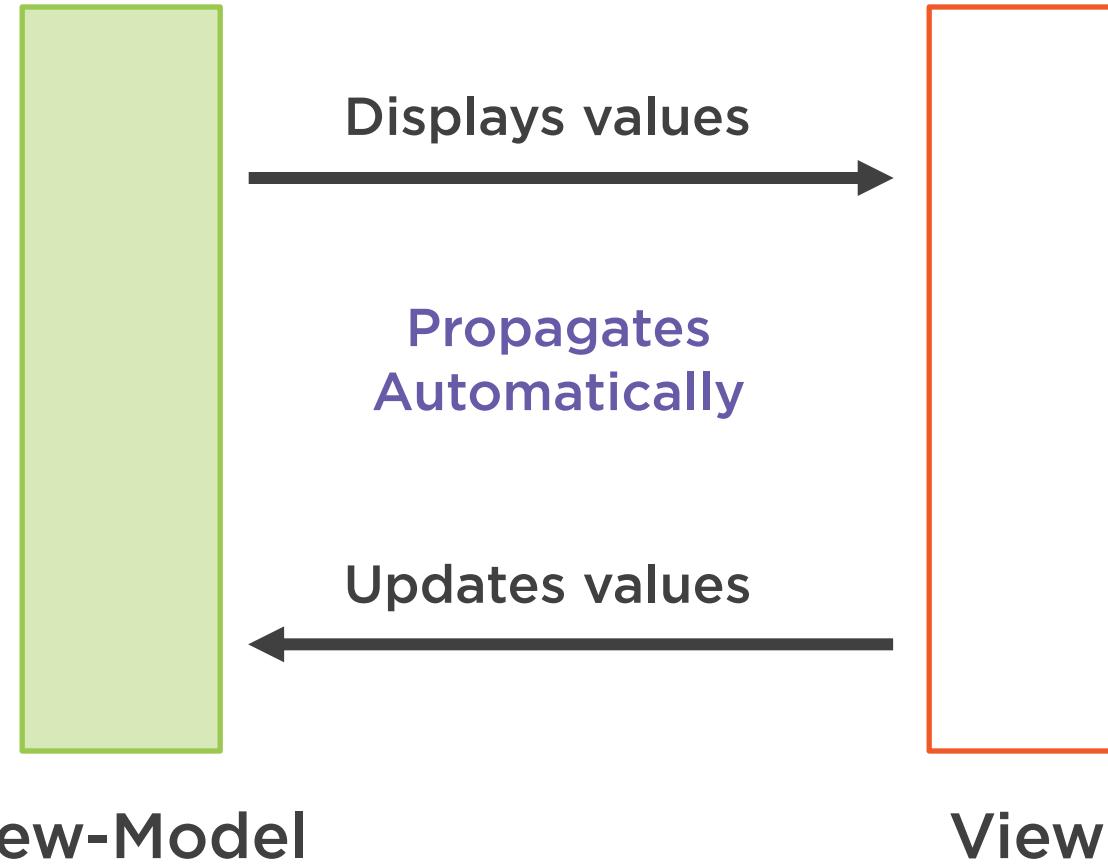


Model

View-Model

View

Databinding



INotifyPropertyChanged

```
public class RecipeViewModel : INotifyPropertyChanged
{
    public event PropertyChangedEventHandler PropertyChanged;

    string _recipeName;
    public string RecipeName
    {
        get { return _recipeName; }
        set
        {
            if (_recipeName == value)
                return;

            _recipeName = value;
            OnPropertyChanged();
        }
    }

    public void OnPropertyChanged([CallerMemberName]string memberName = "") =>
        PropertyChanged?.Invoke(this, new PropertyChangedEventArgs(memberName));
}
```

```
public void OnPropertyChanged([CallerMemberName]string memberName = "") =>
    PropertyChanged?.Invoke(this, new PropertyChangedEventArgs(memberName))
);
```

Cuz it was at the bottom

```
<Label Text="{Binding RecipeName}" />  
...  
<Label Text="{Binding Time, StringFormat=' {0} prep'}" />
```

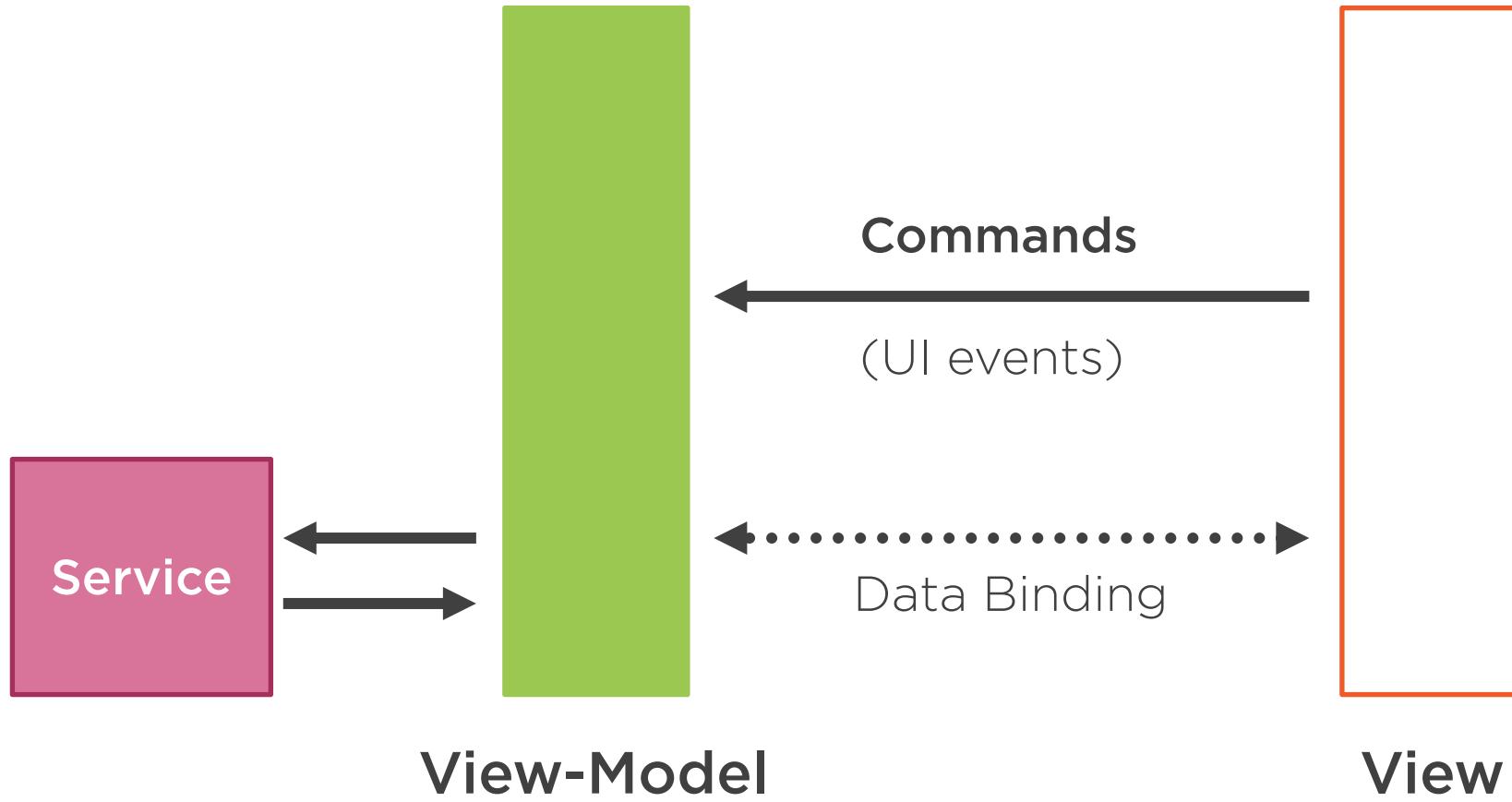
Data Binding - XAML

BindingContext set on parent or control

Binding keyword

Reference view model property

Commanding



```
public ICommand AddRecipeCommand { get; } =  
    new Command(async (obj) => await Navigation.PushModalAsync(  
        new NavigationPage(new EditRecipePage())))  
);
```

Command – View Model

ICommand interface

Action when invoked

Optional bool function for enabling

```
<Button Text="Add" Command="{Binding AddRecipeCommand}" />
```

Command - XAML

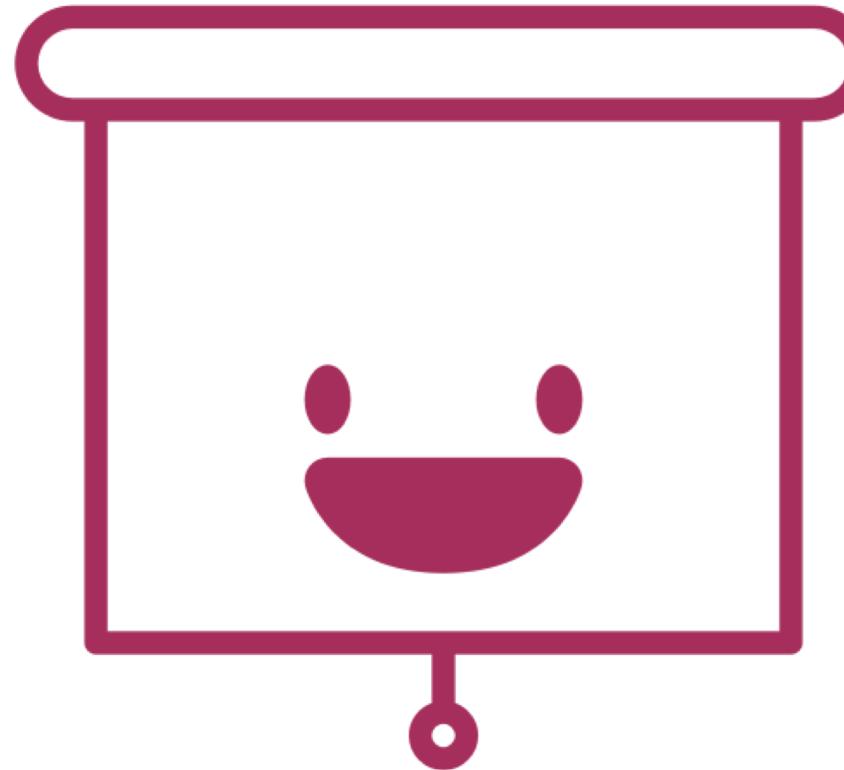
Command property

Binding keyword

One command per control

MVVM Demo

Data binding
Commanding



Additional Features & Platform Access

Dependency Service

Platform Specific Functionality in Shared Code

Define interface

Implement on each platform

**Register with
DependencyService**

**Shared code calls
DependencyService**

```
public interface IFormsCamera
{
    void LaunchCamera();
}
```

Dependency Service

Define the interface

```
[assembly: Dependency(typeof(AppleCamera))]  
namespace Foodie.iOS  
{  
    public class AppleCamera : IFormsCamera  
    {  
        public void LaunchCamera()  
        {  
            // Some camera stuff  
        }  
    }  
}
```

Dependency Service **Platform implementation**

```
public void TakePhoto()
{
    var camera = DependencyService.Get<IFormsCamera>();
    camera.LaunchCamera();
}
```

Dependency Service - Consume
DependencyService static object

CSS Styling

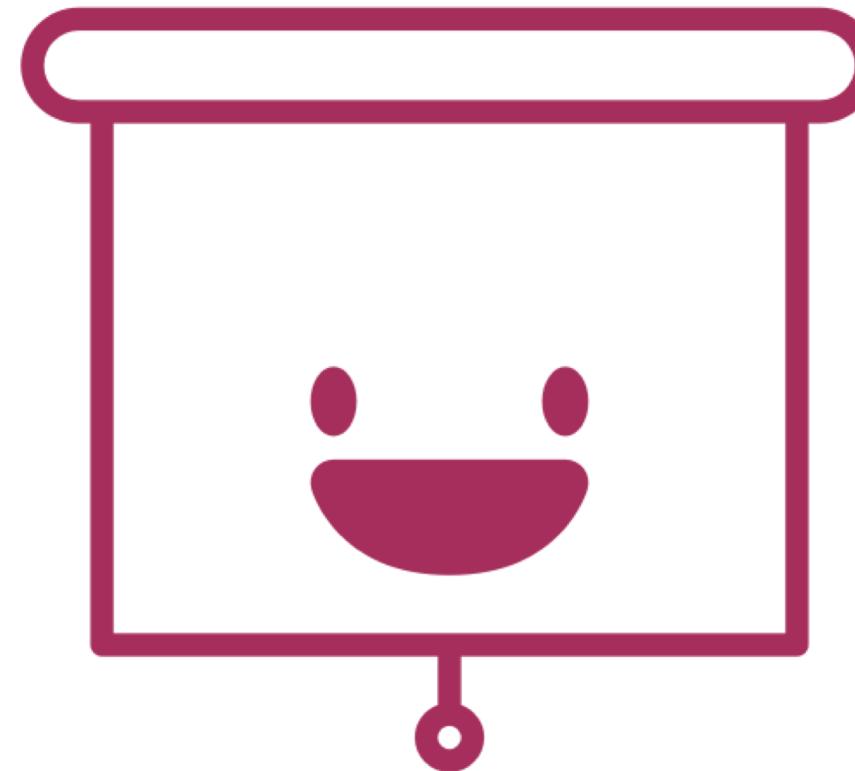
Similar to web CSS

C# or XAML

Select by ID, Class, Type,
Base, etc.

Not all Forms properties
available... yet

CSS Demo



Xamarin.Forms

User Interface

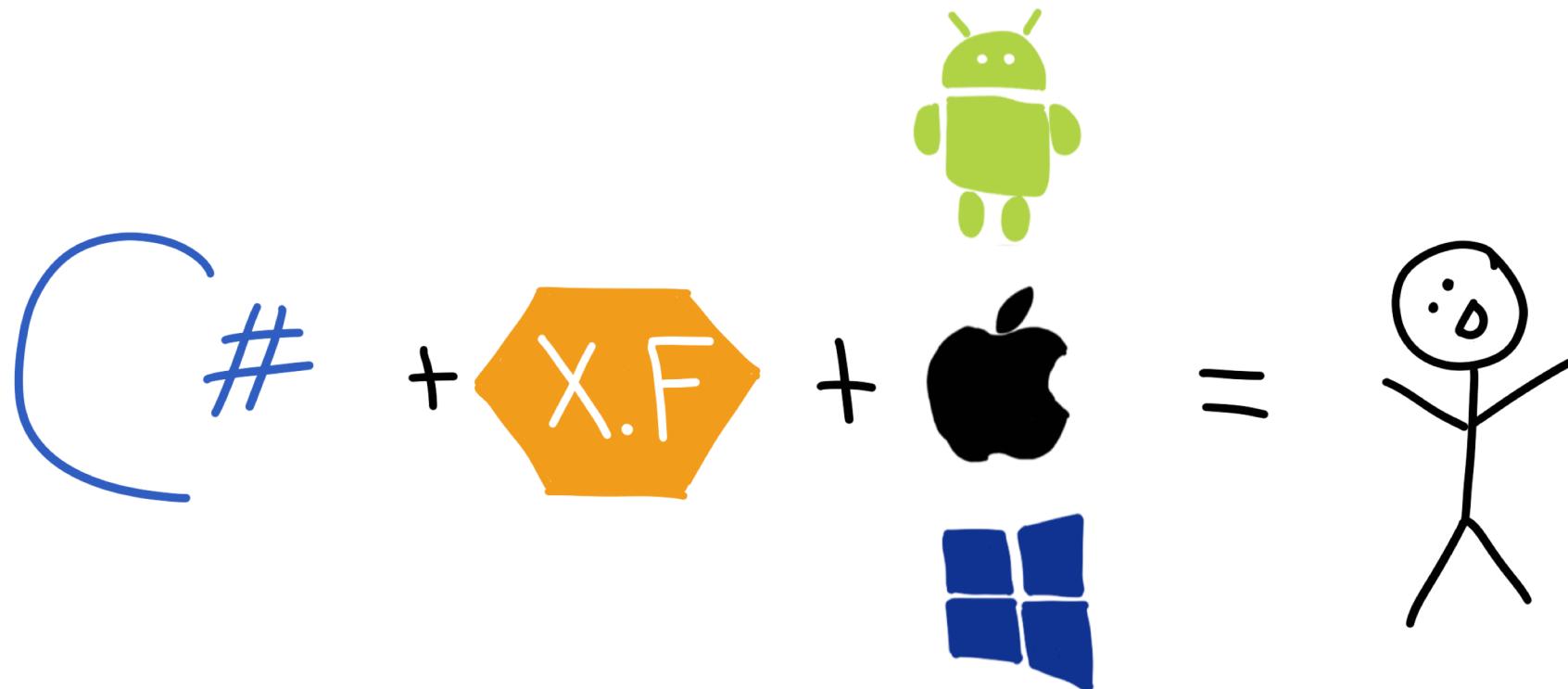
- Pages
- Navigation
- Layouts
- Controls

MVVM

- Data binding
- Commanding

And More!

- Dependency Service
- Platform Access
- CSS



Learn More!

Pluralsight: Moving Beyond the Basics with Xamarin.Forms

<https://www.pluralsight.com/courses/xamarin-forms-moving-beyond-basics>

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I ❤️ You

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