

INTRO TO XAMARIN.FORMS

In need of a native mobile app cross platform development strategy? Xamarin Forms is a serious contender!

Michael Dimoudis



@dimoss

PageUp♦

XAMARIN.FORMS

**WRITE ONCE, RUN
EVERYWHERE,**

AND BE NATIVE?

memegenerator.net

With Xamarin.Forms:
more code-sharing, native controls



Shared UI Code

Shared C# Backend

XAMARIN.FORMS

- *Build native UIs with a shared XAML/C# codebase*
- *40+ Pages, Layouts and Controls built in*
- *Navigation*
- *Animation API*
- *Dependency Service*
- *Messaging Center*

What's in the box.

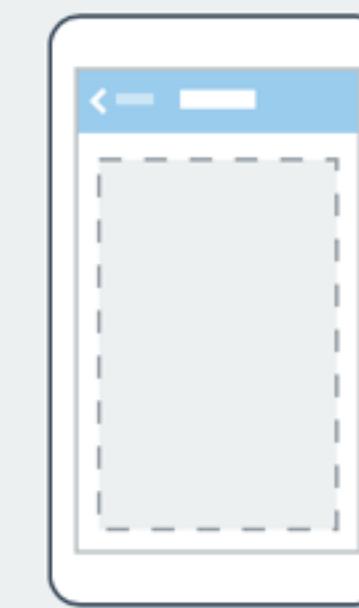
Pages



ContentPage



MasterDetailPage



NavigationPage

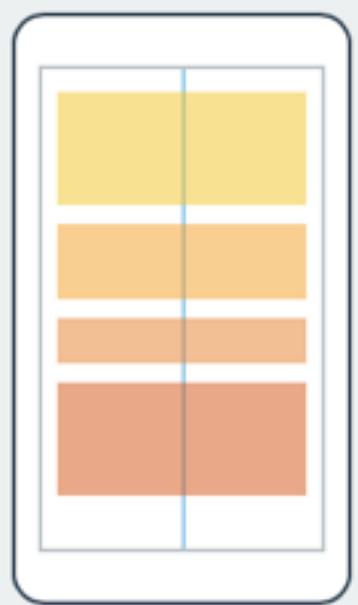


TabbedPage

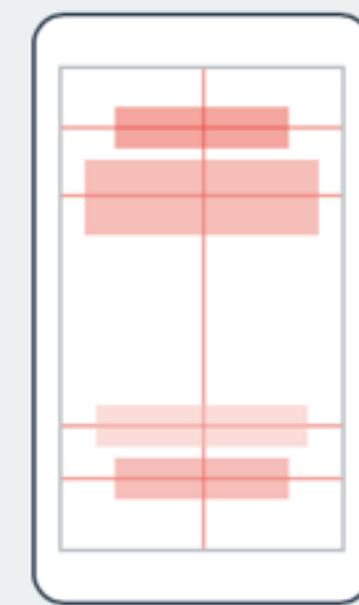


CarouselPage

Layouts



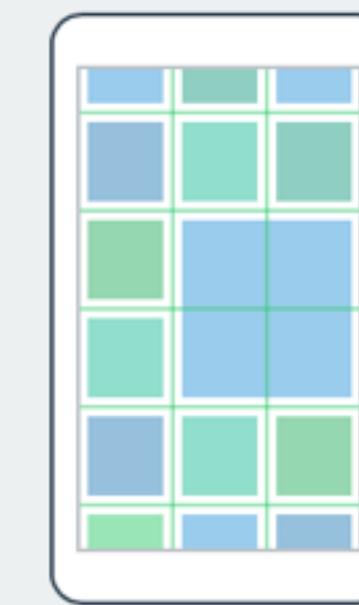
StackLayout



AbsoluteLayout



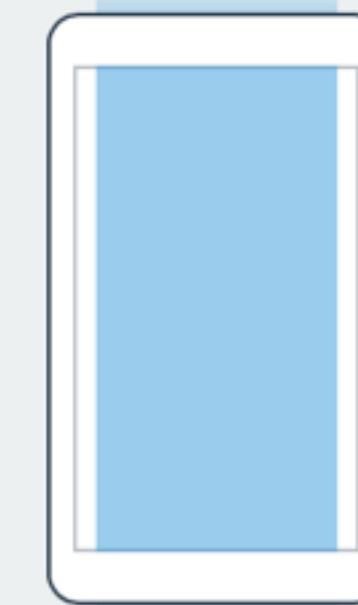
RelativeLayout



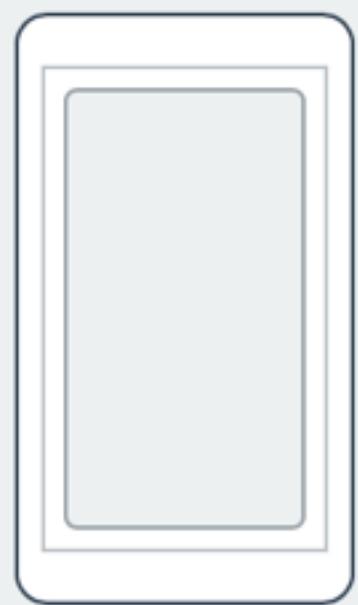
GridLayout



ContentView



ScrollView



Frame

Controls

You Say
ListView,

I Say UI
TableView

ActivityIndicator

BoxView

Button

DatePicker

Editor

Entry

Image

Label

ListView

Map

OpenGLView

Picker

ProgressBar

SearchBar

Slider

Stepper

TableView

TimePicker

WebView

EntryCell

ImageCell

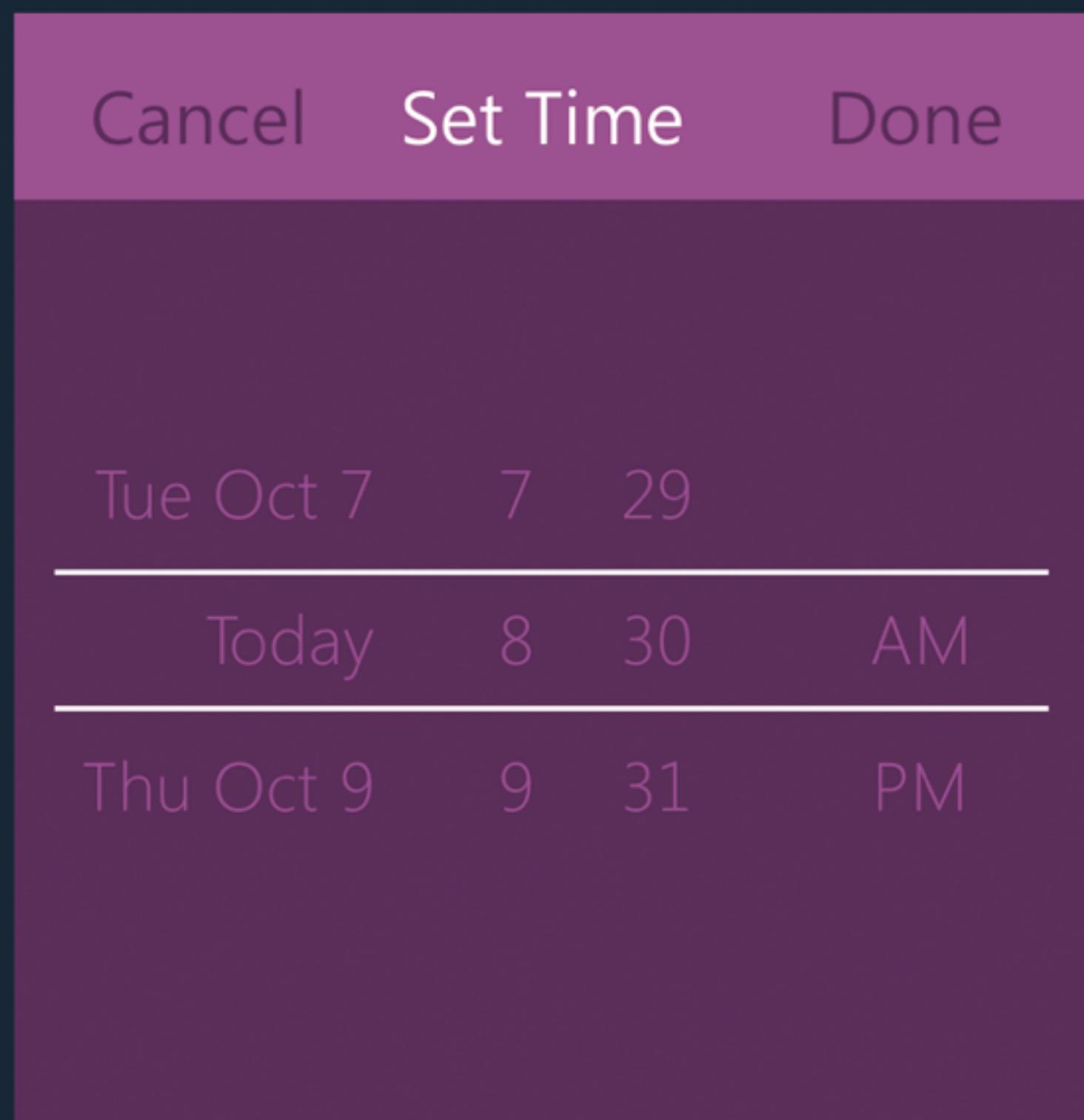
SwitchCell

TextCell

ViewCell

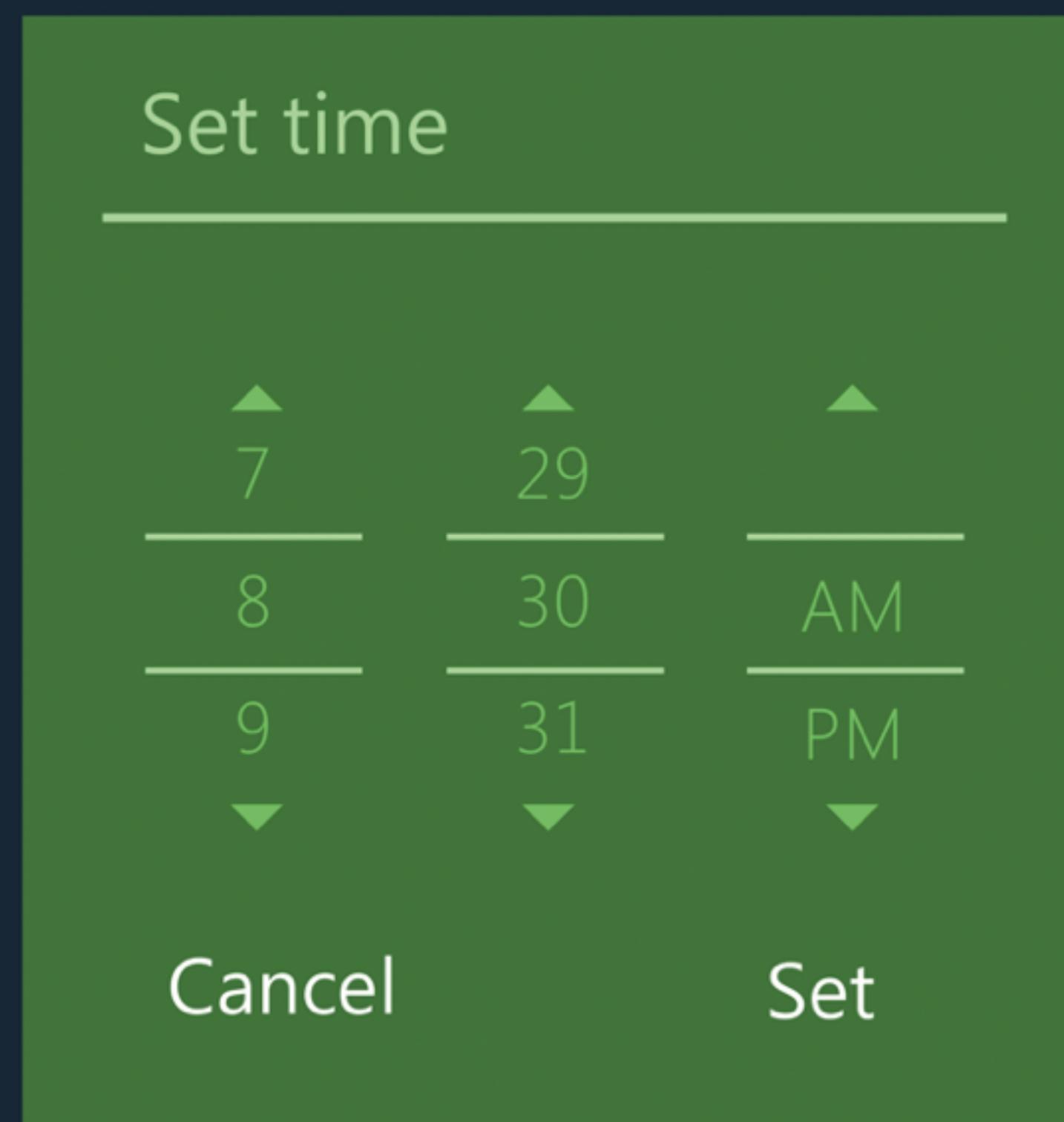
iOS

Time Pickers •••



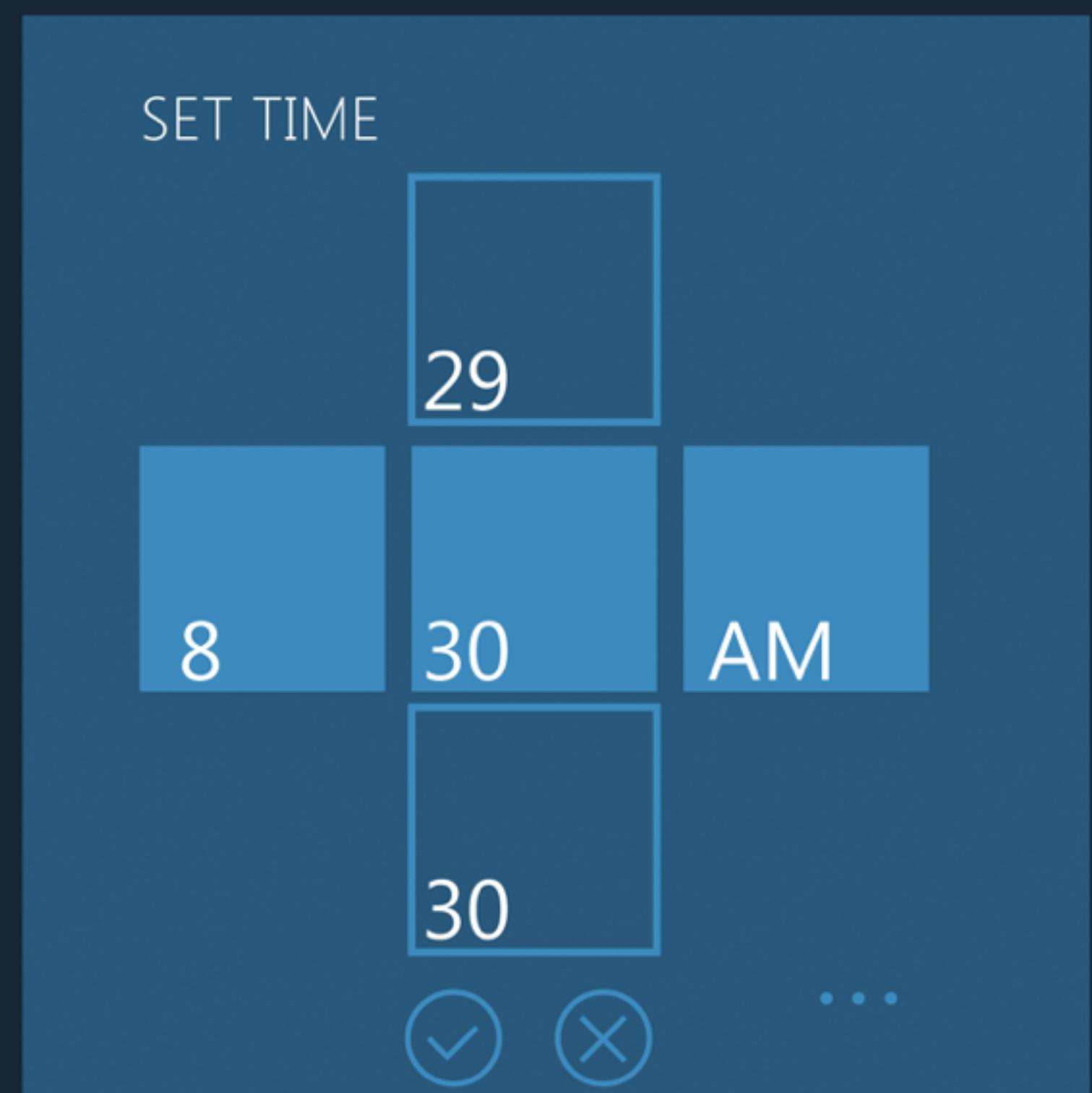
UITimePickerController

Android



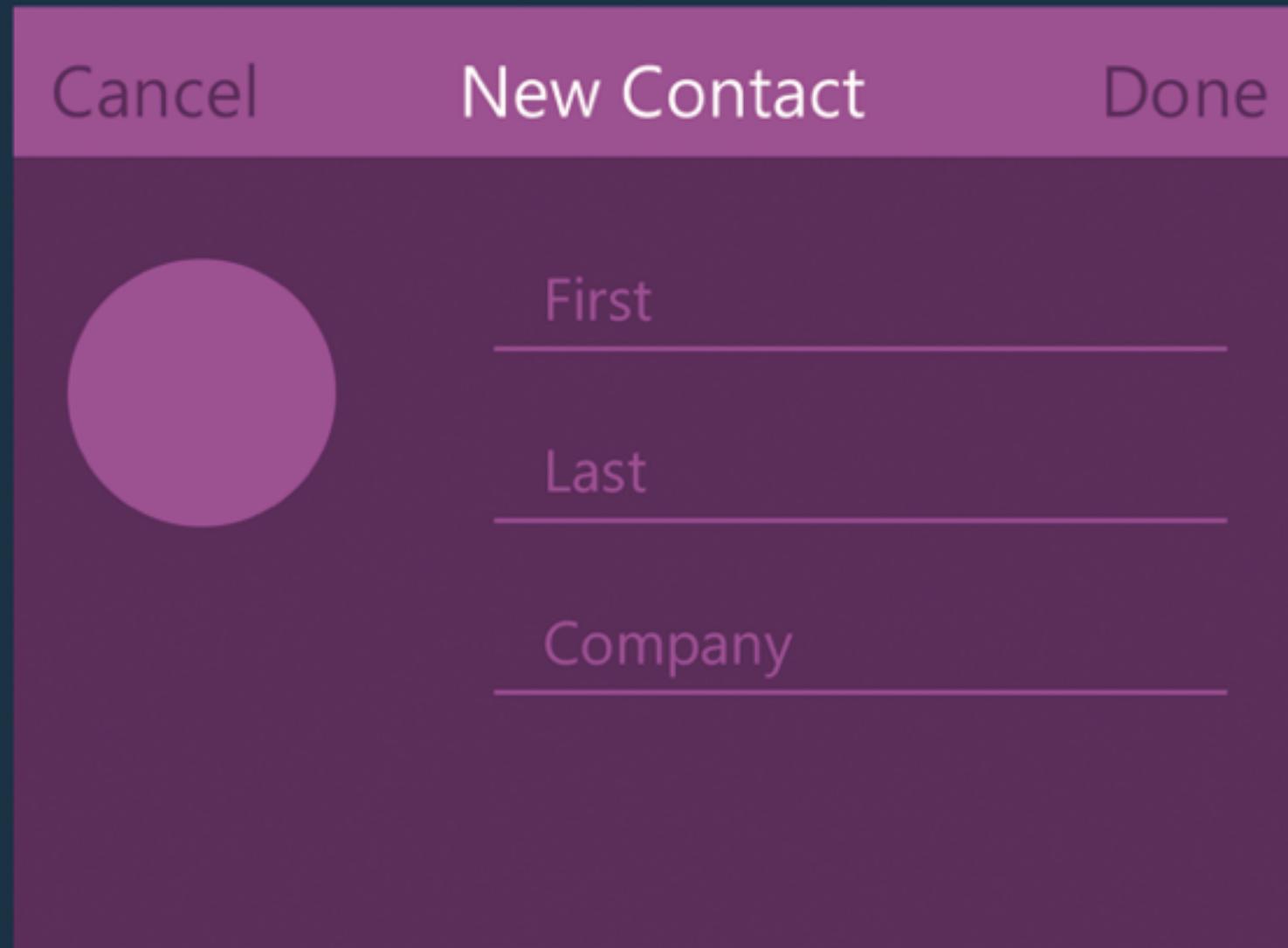
TimePickerDialog

Windows Phone

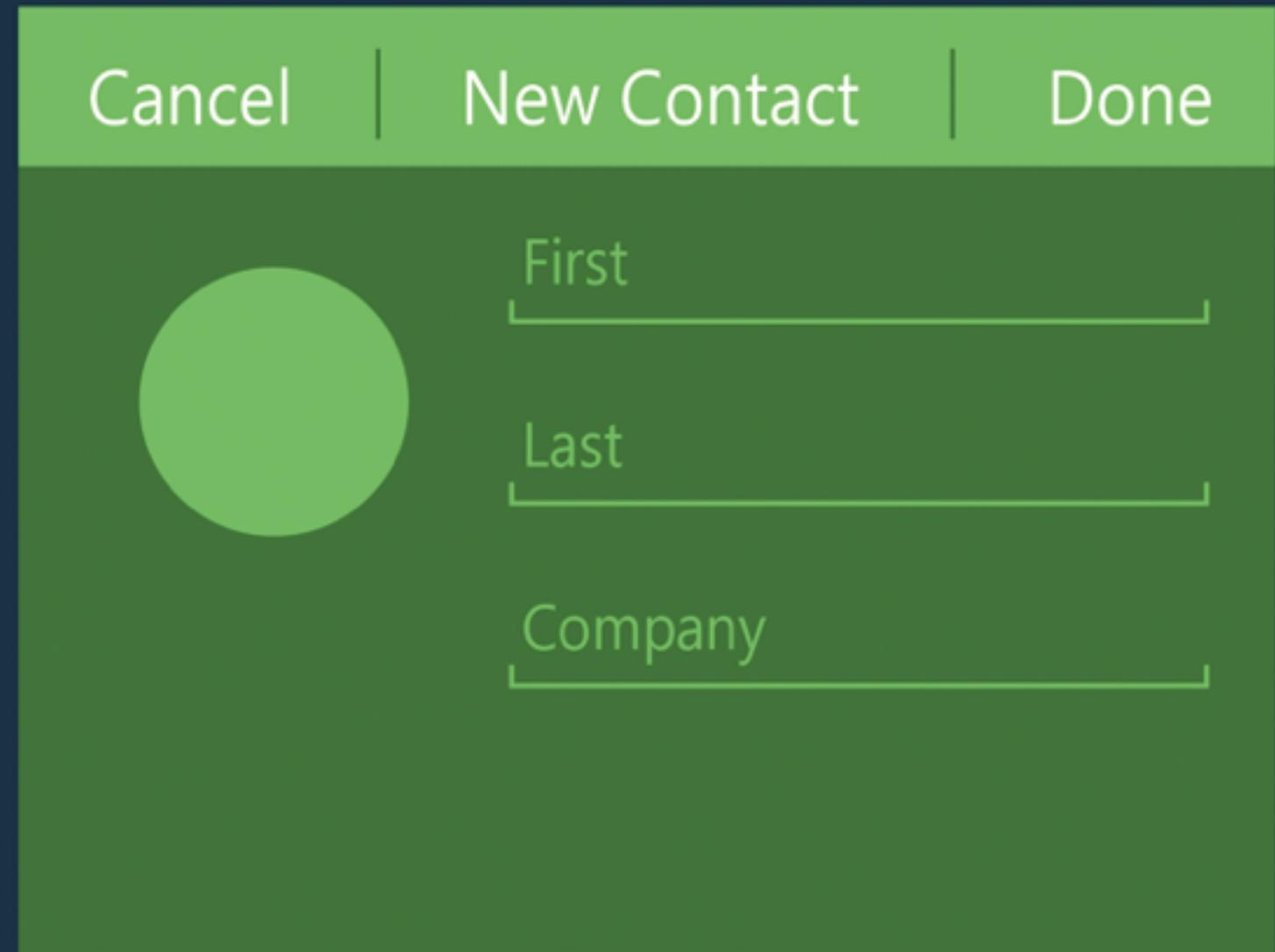


TimePicker

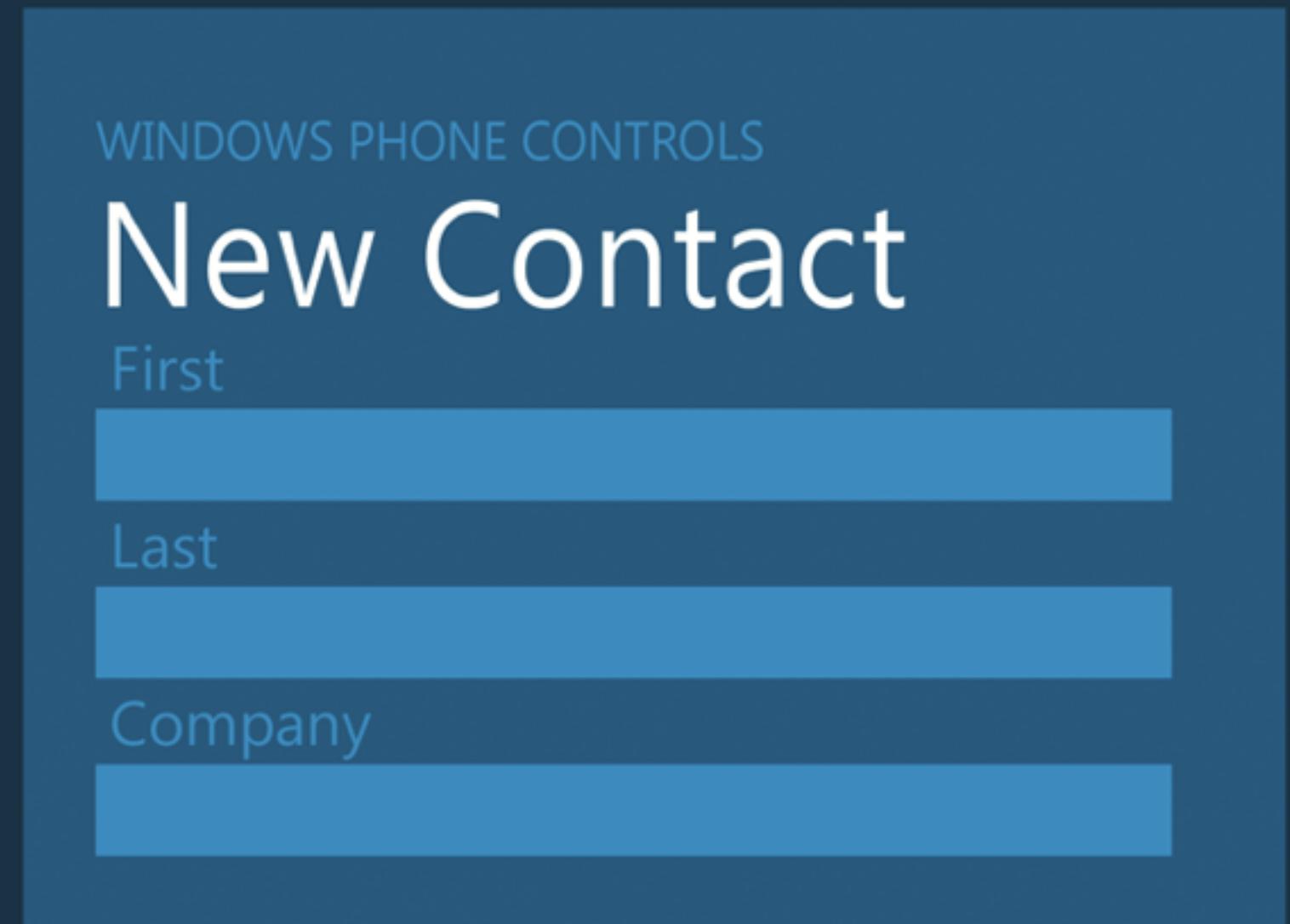
Text Entries ●●●



UITextField

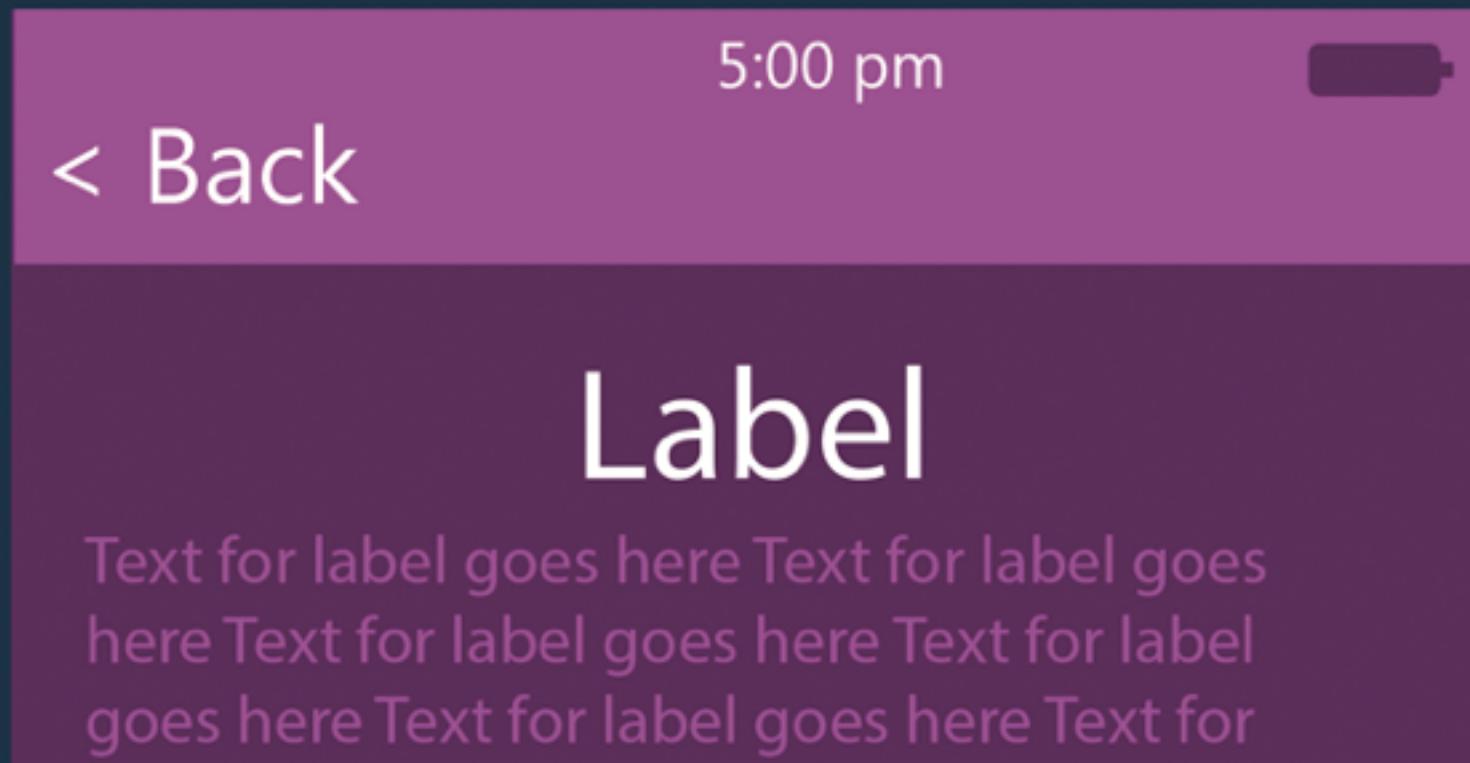


EditText

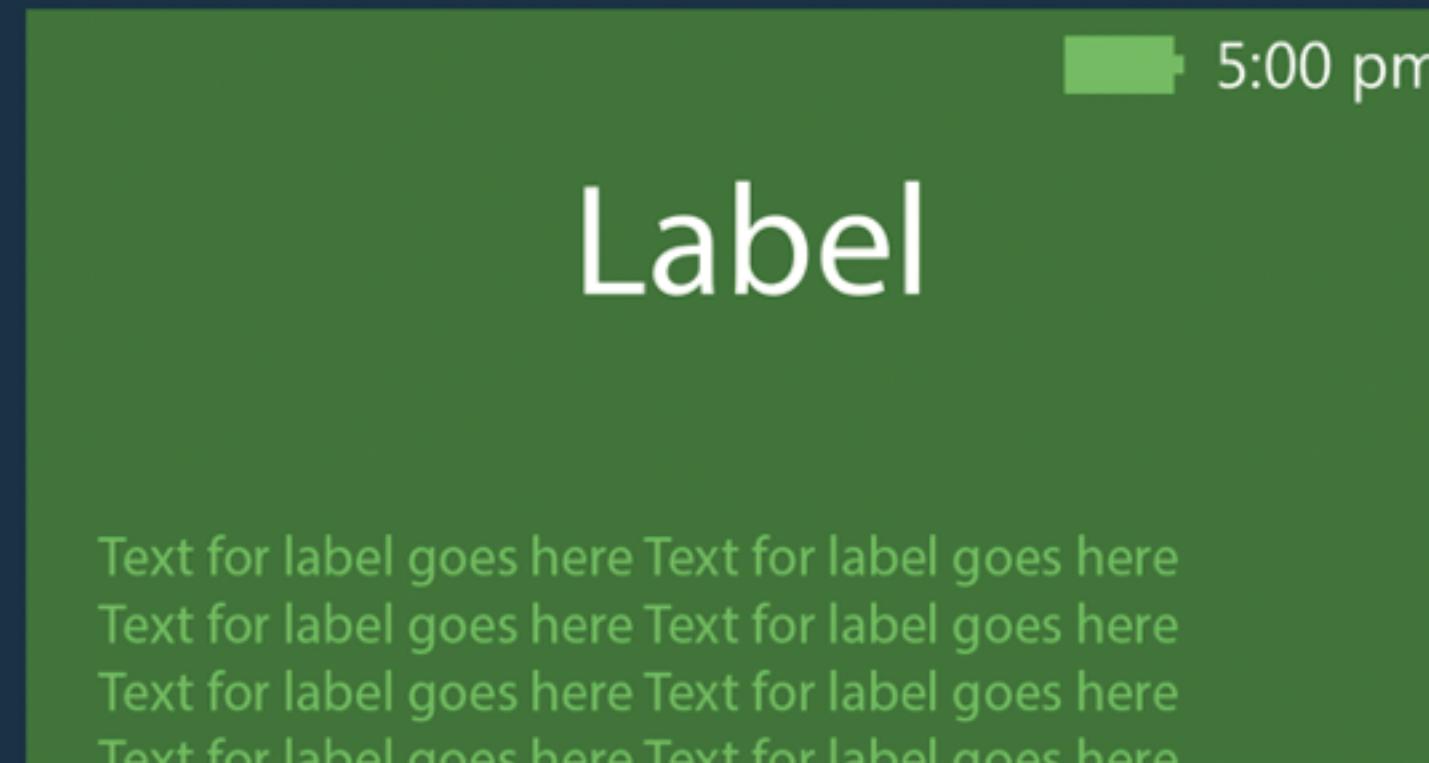


TextBox

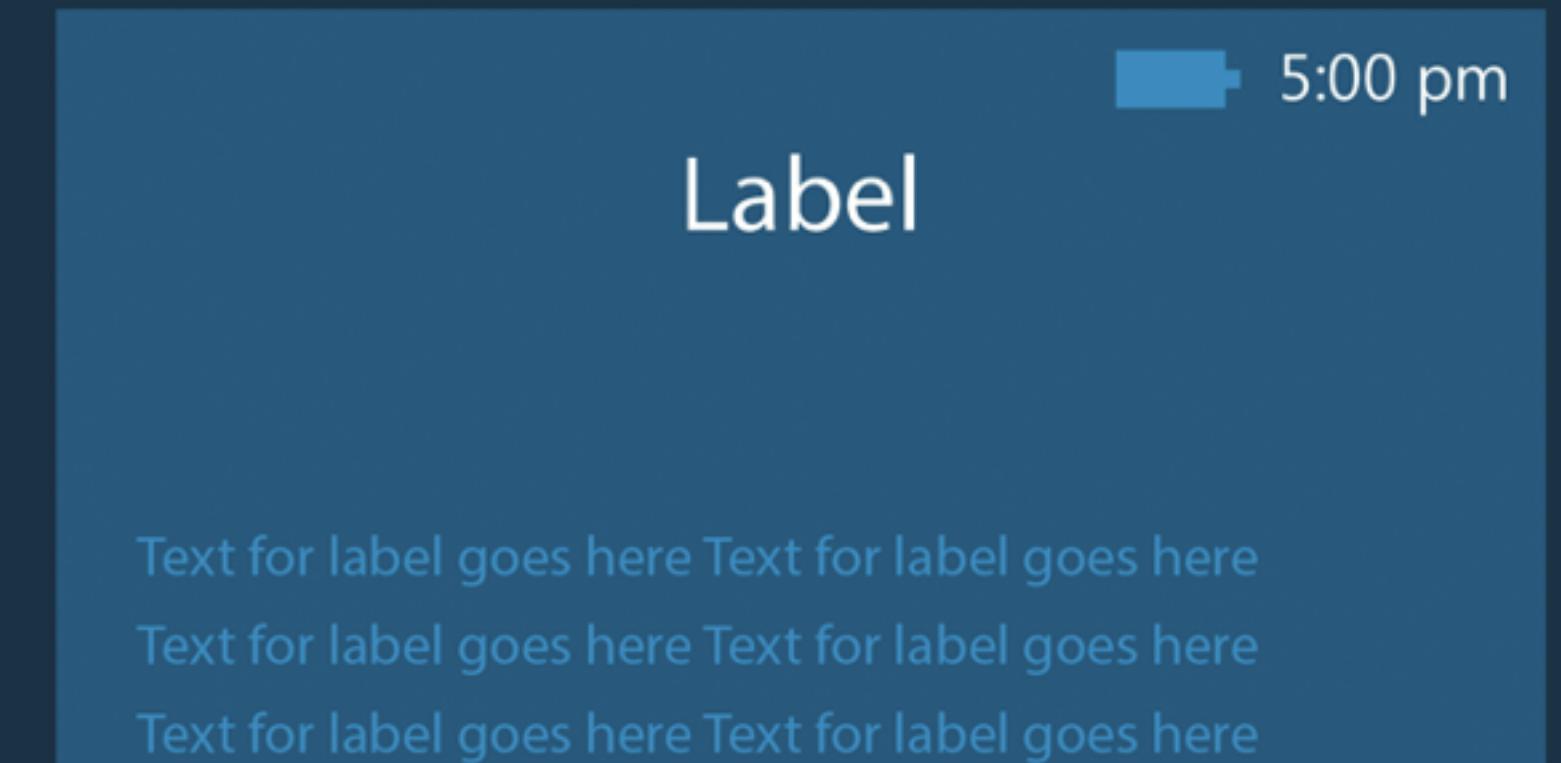
Labels ●●●



UILabel

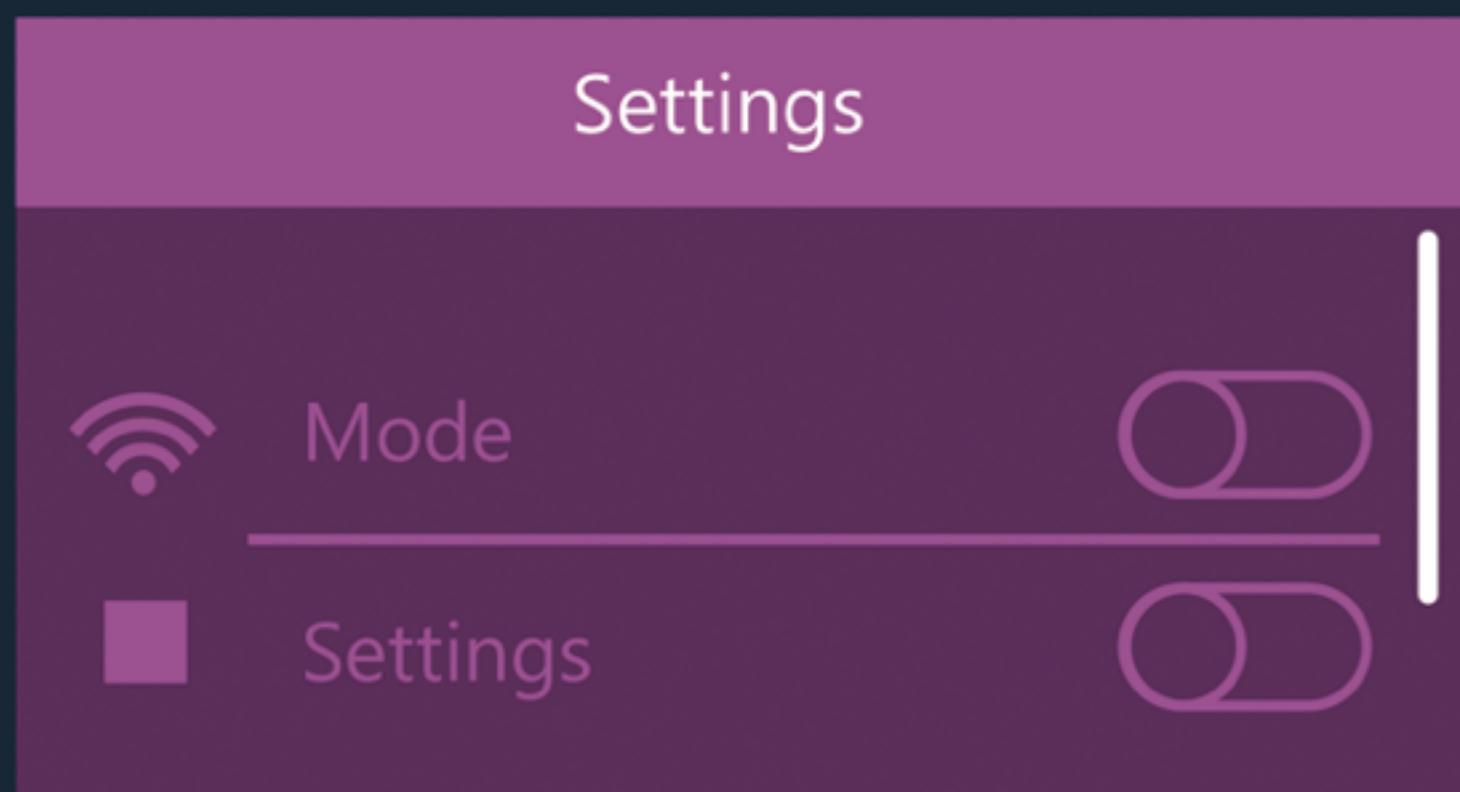


TextView

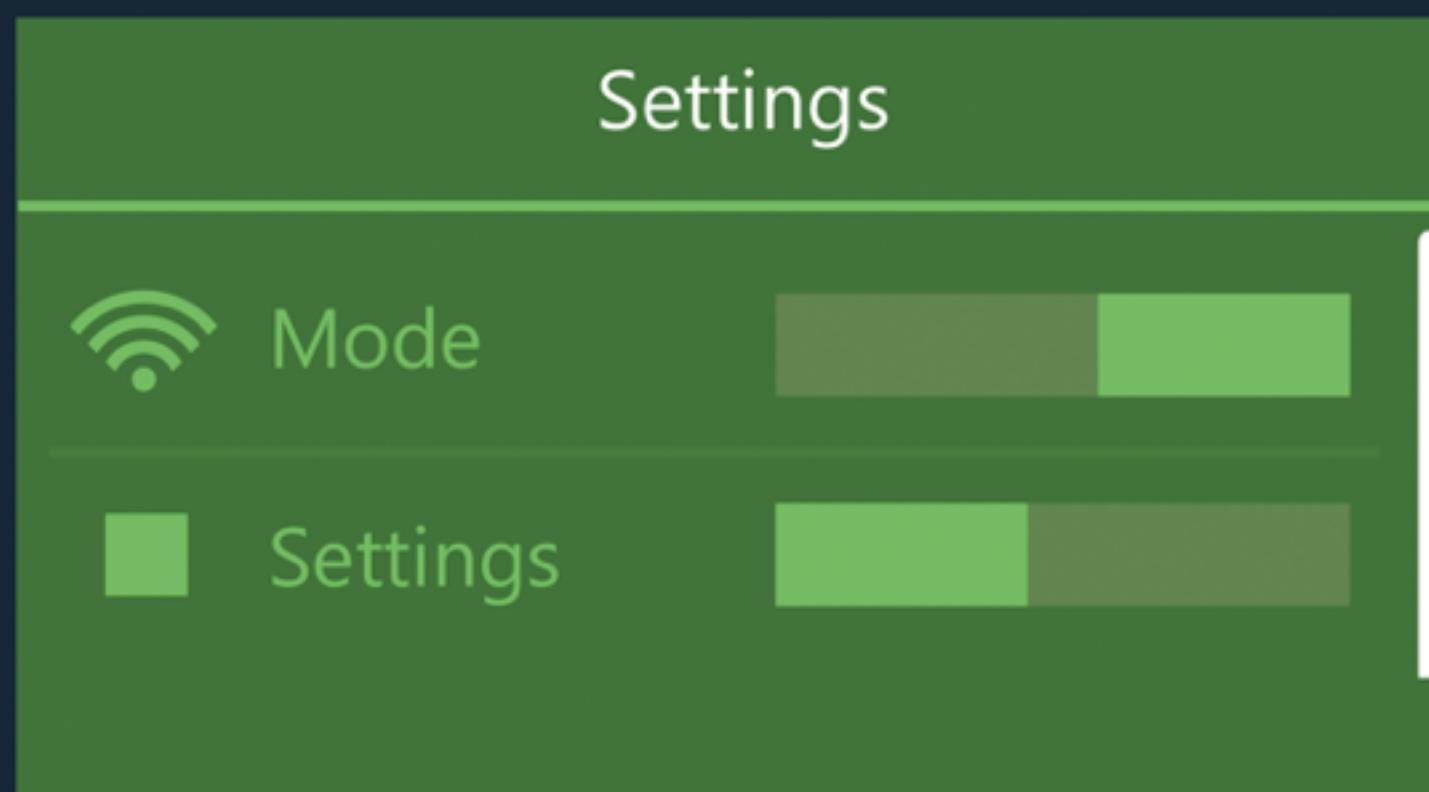


TextBlock

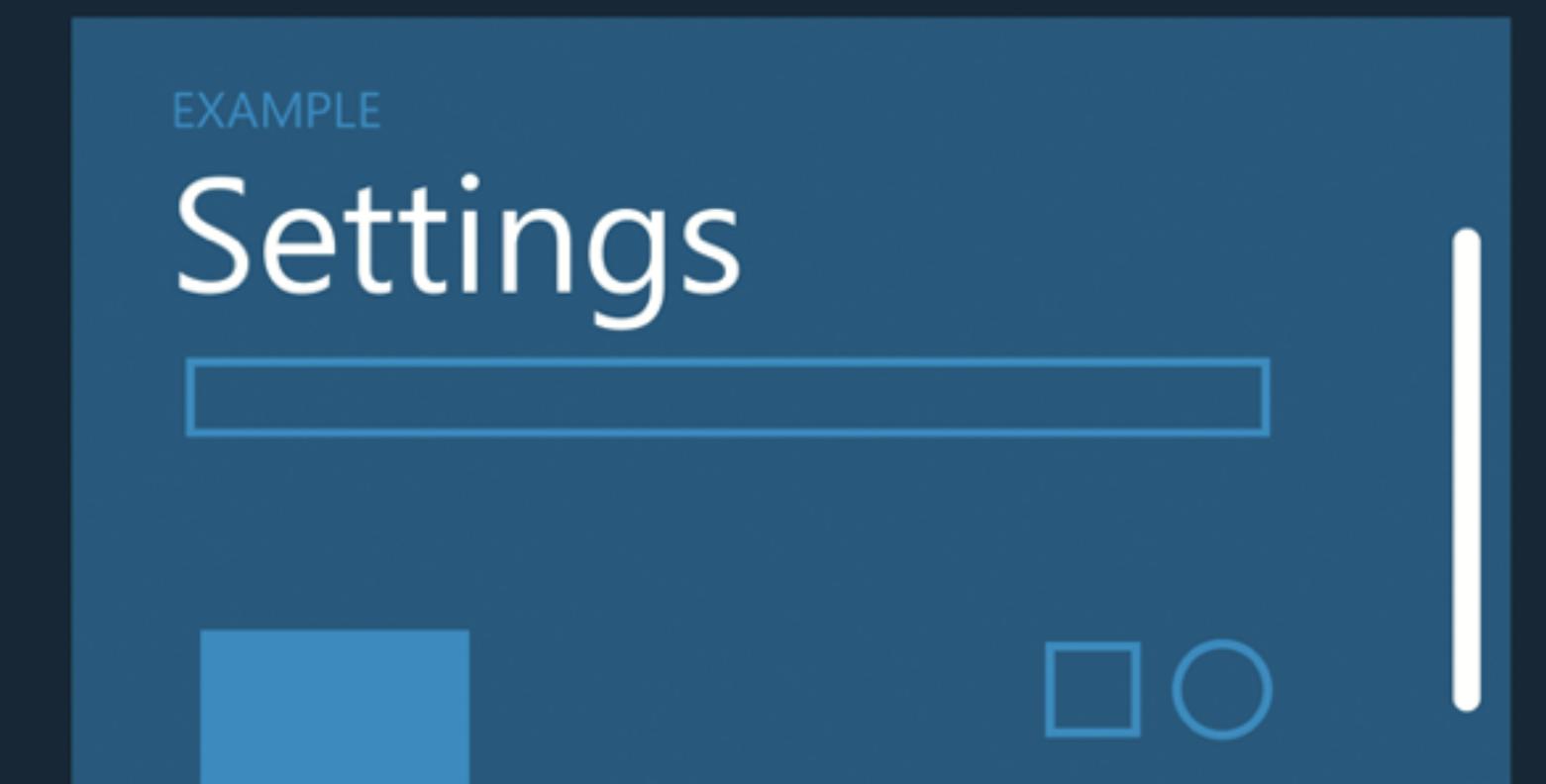
Scroll Views ●●●



UIScrollView

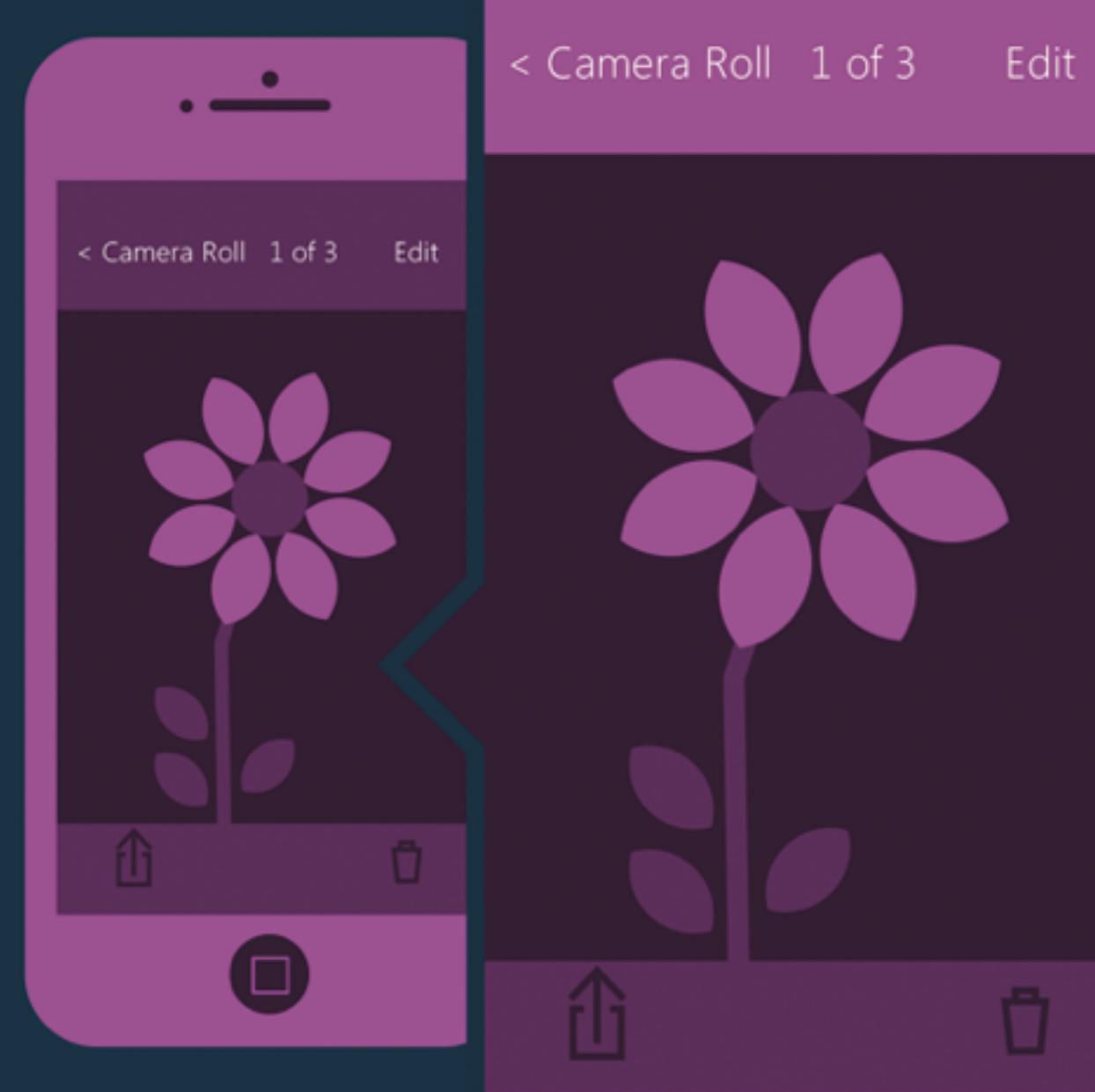


ScrollView

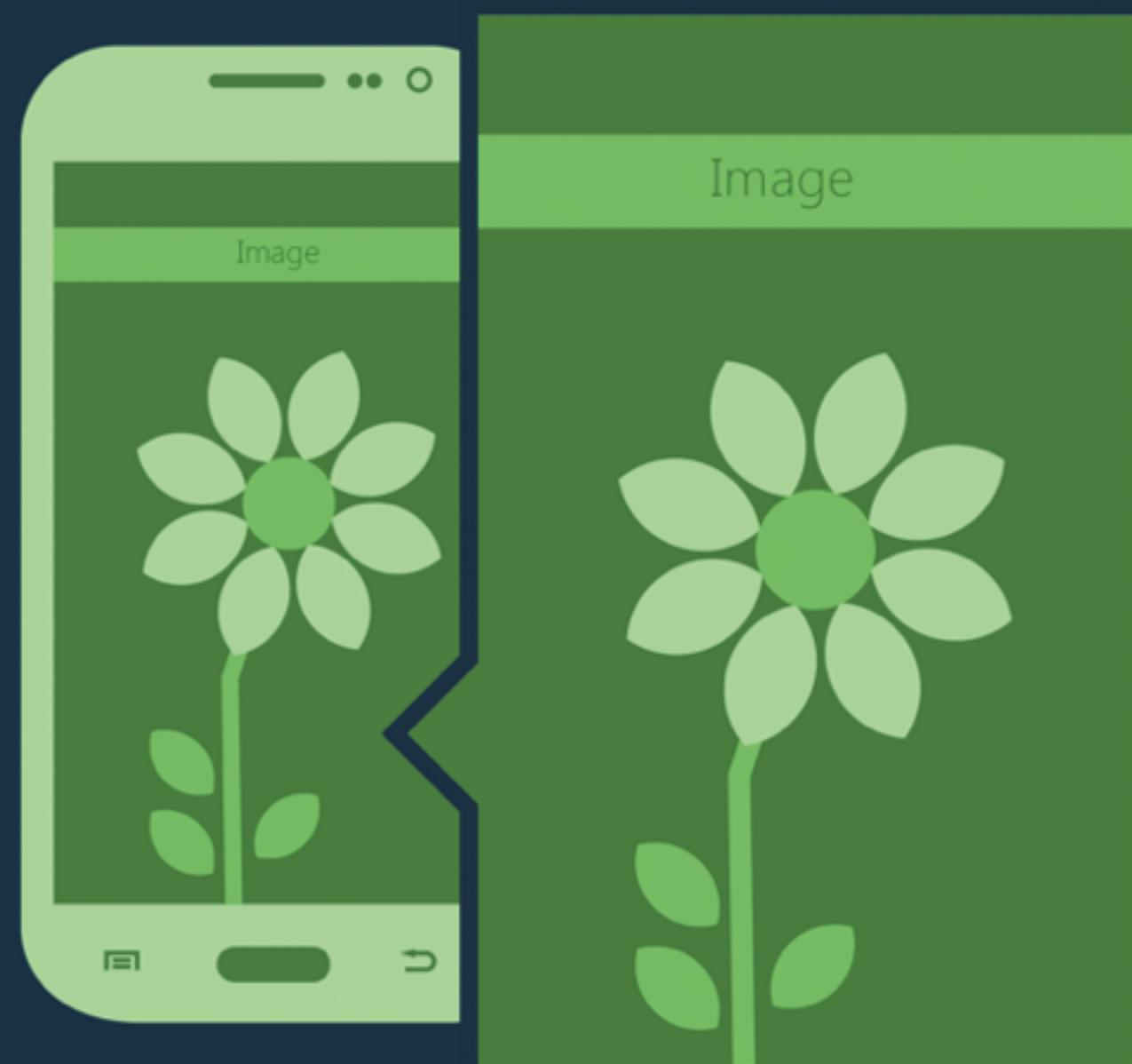


ScrollViewer

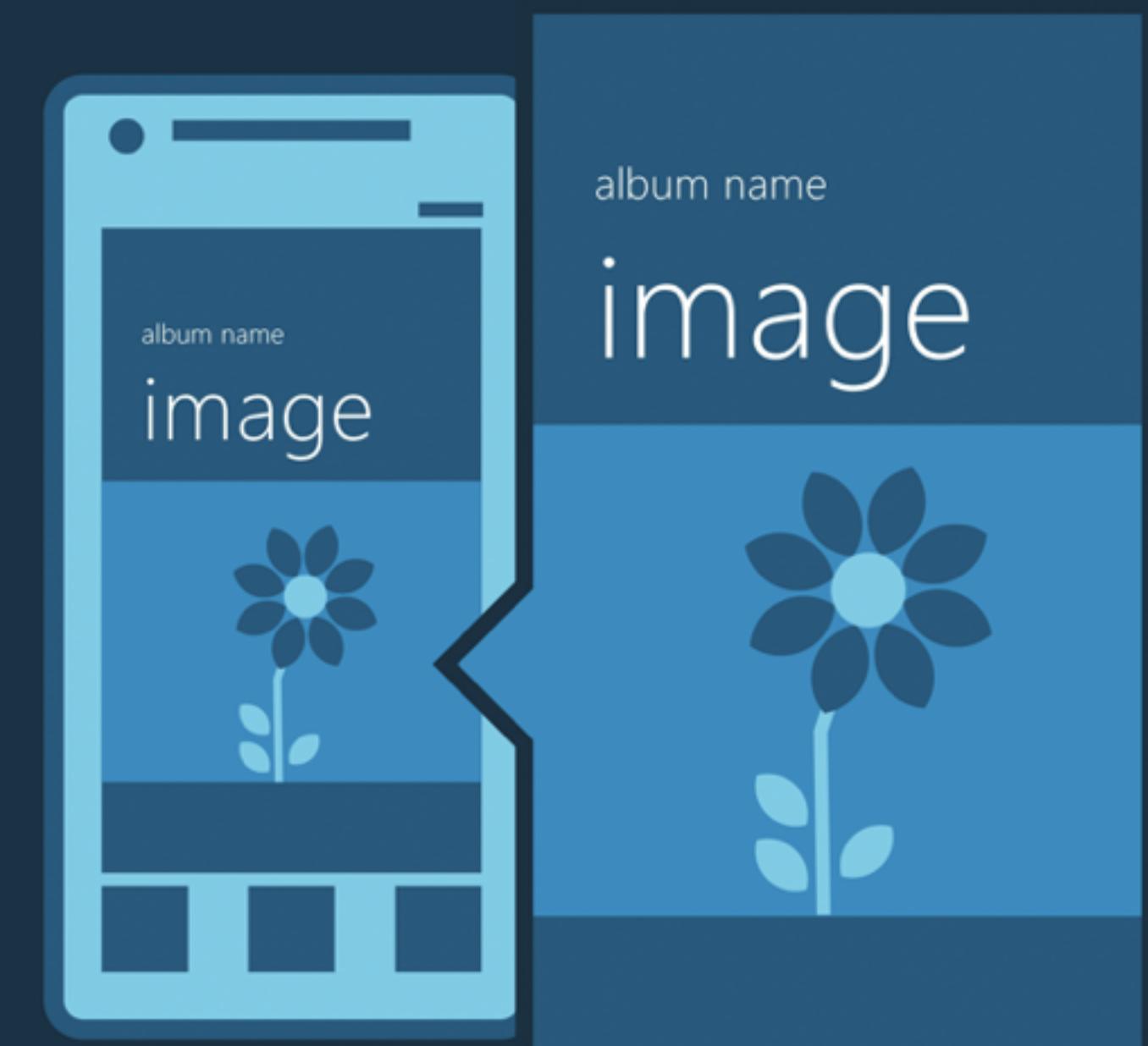
Images



UIImageView



ImageView



Image

Buttons •••

Button

UIButton

Button

Button

Button

Button

Progress Bars •••

1.5 GB of 3.0 GB

UIProgressView

1.5 GB/3.0 GB 50%

ProgressBar(Horizontal)

1.5

ProgressBar

Search Bars •••

Search

UISearchBar

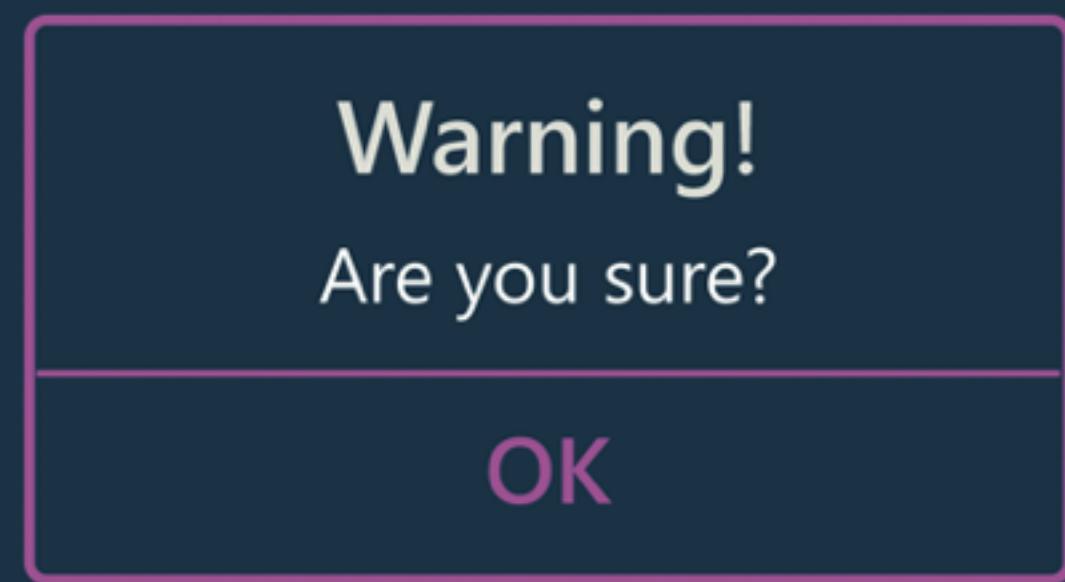
Search

SearchView

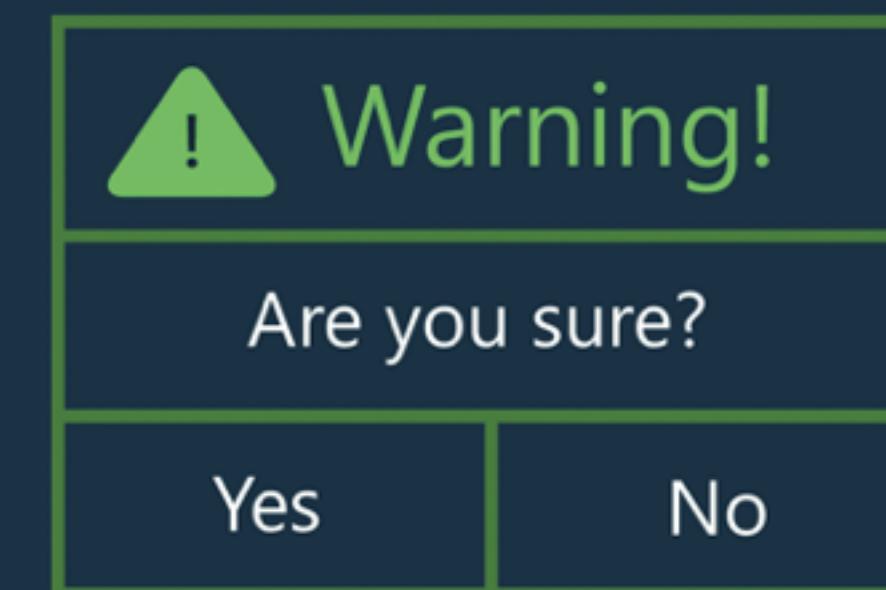
Search

PhoneTextBox

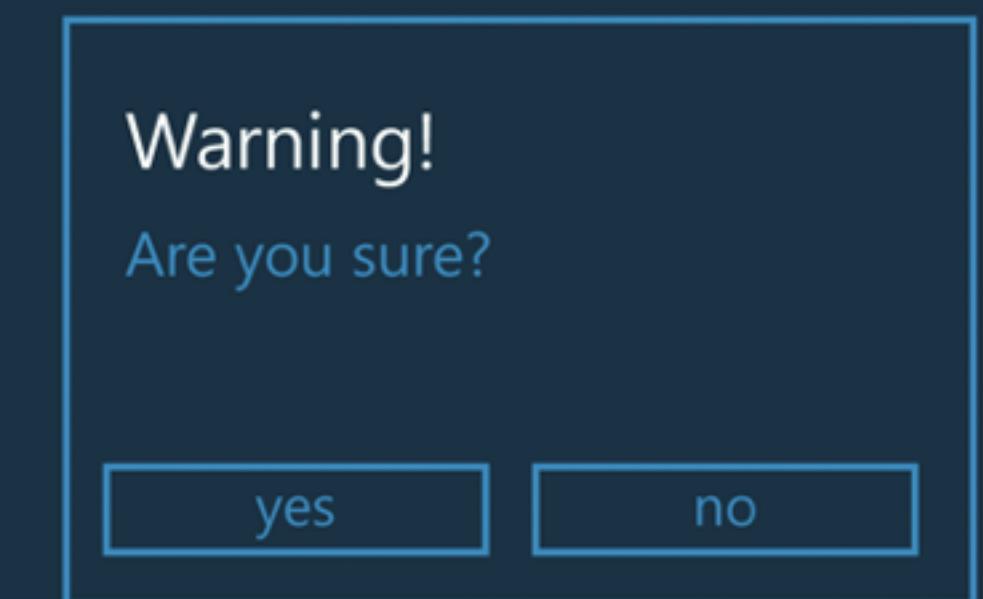
Alerts ●●●



UIAlertView



AlertDialog

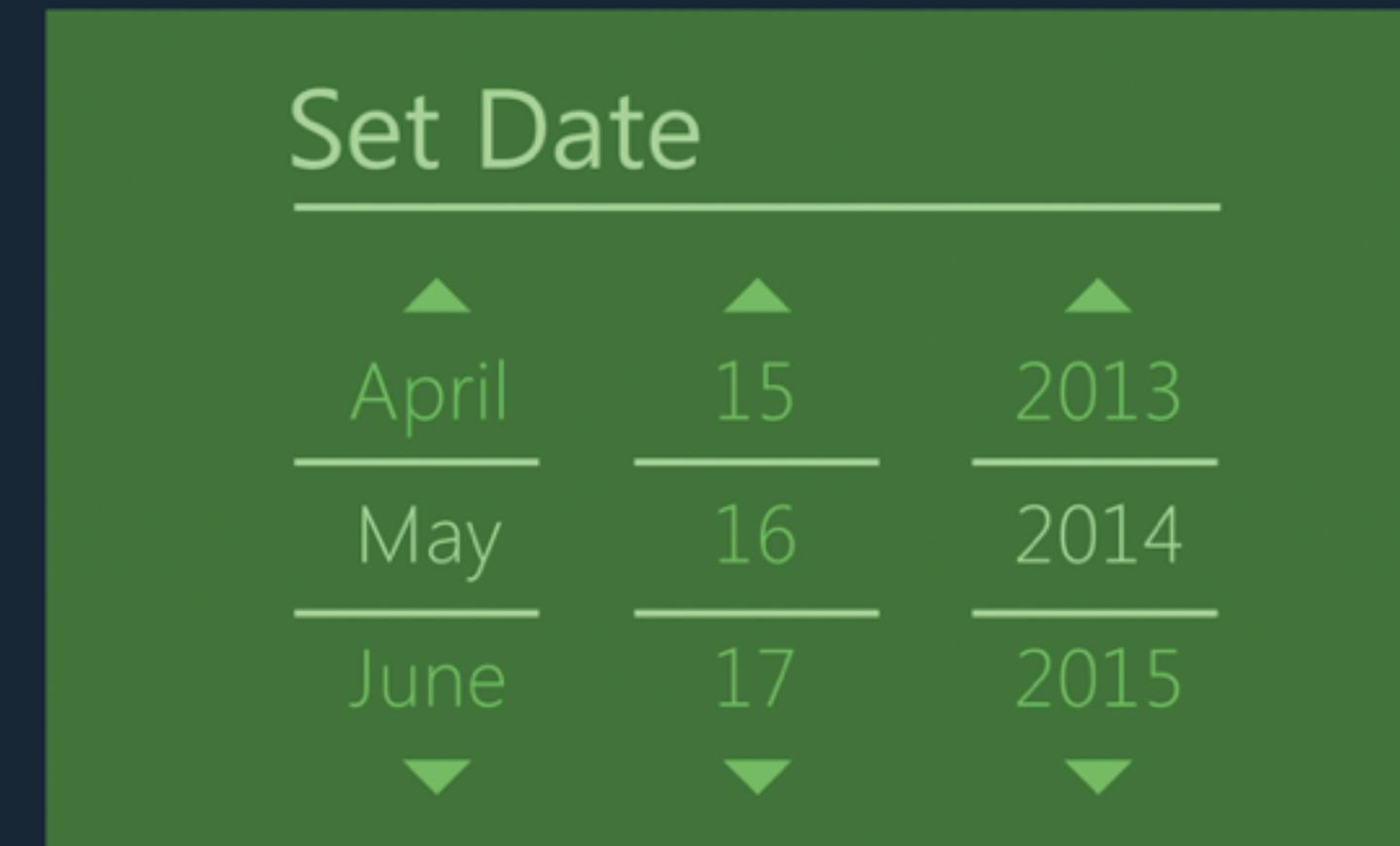


MessageBox

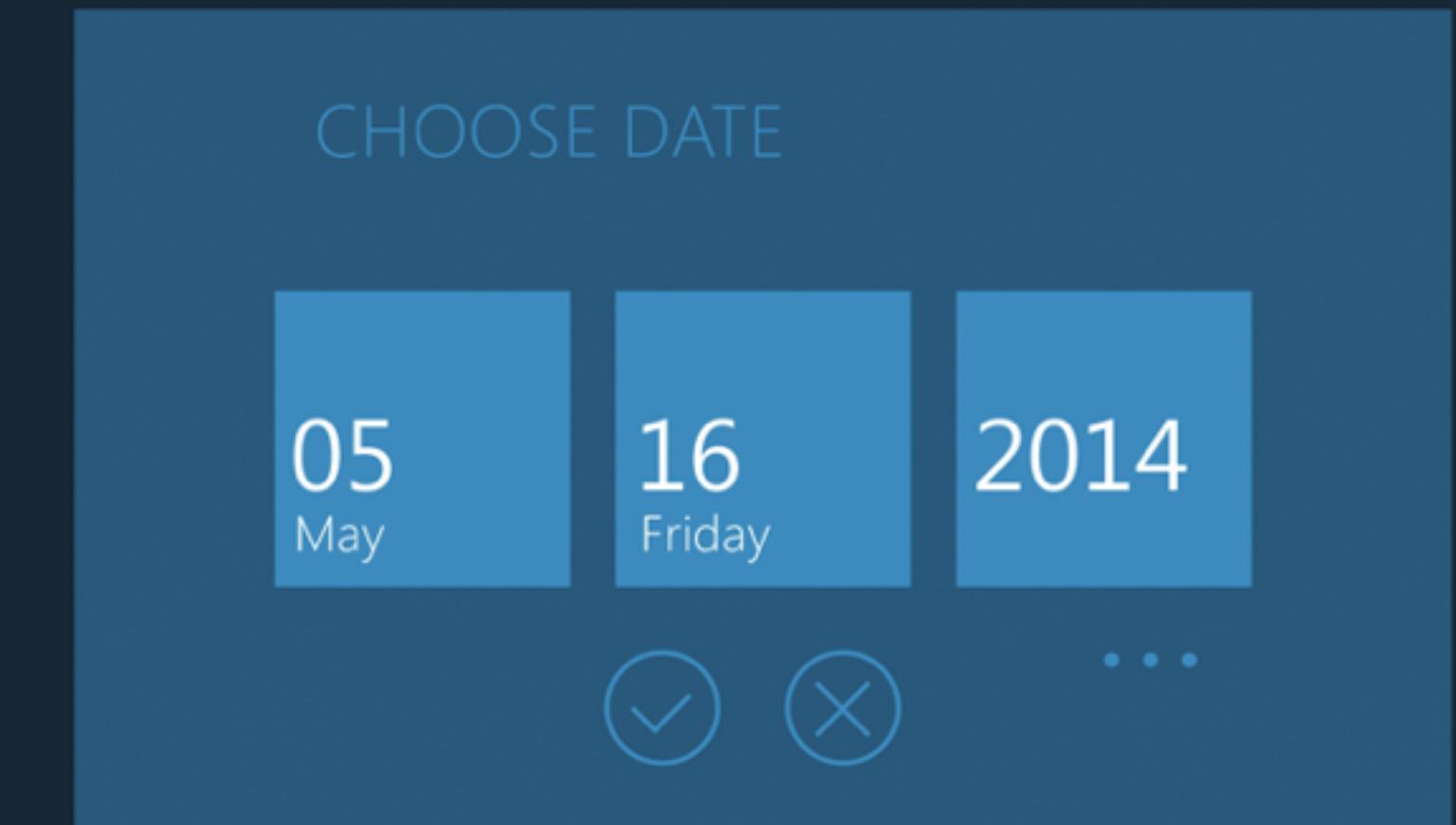
Date Pickers ●●●



UIDatePicker



DatePickerDialog



DatePicker

Sliders •••



UISlider



SeekBar



Slider

Switches •••



UISwitch

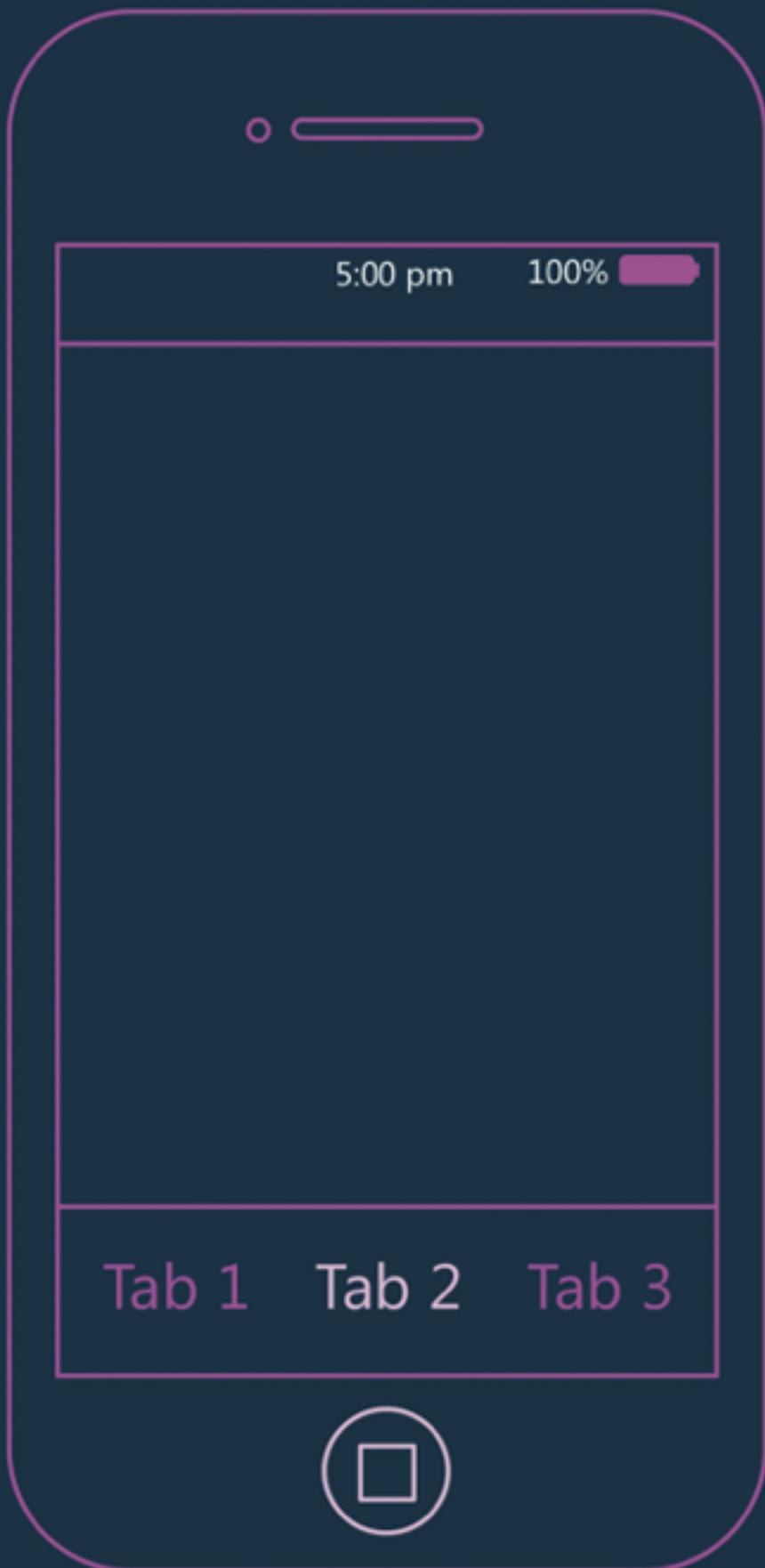


Switch

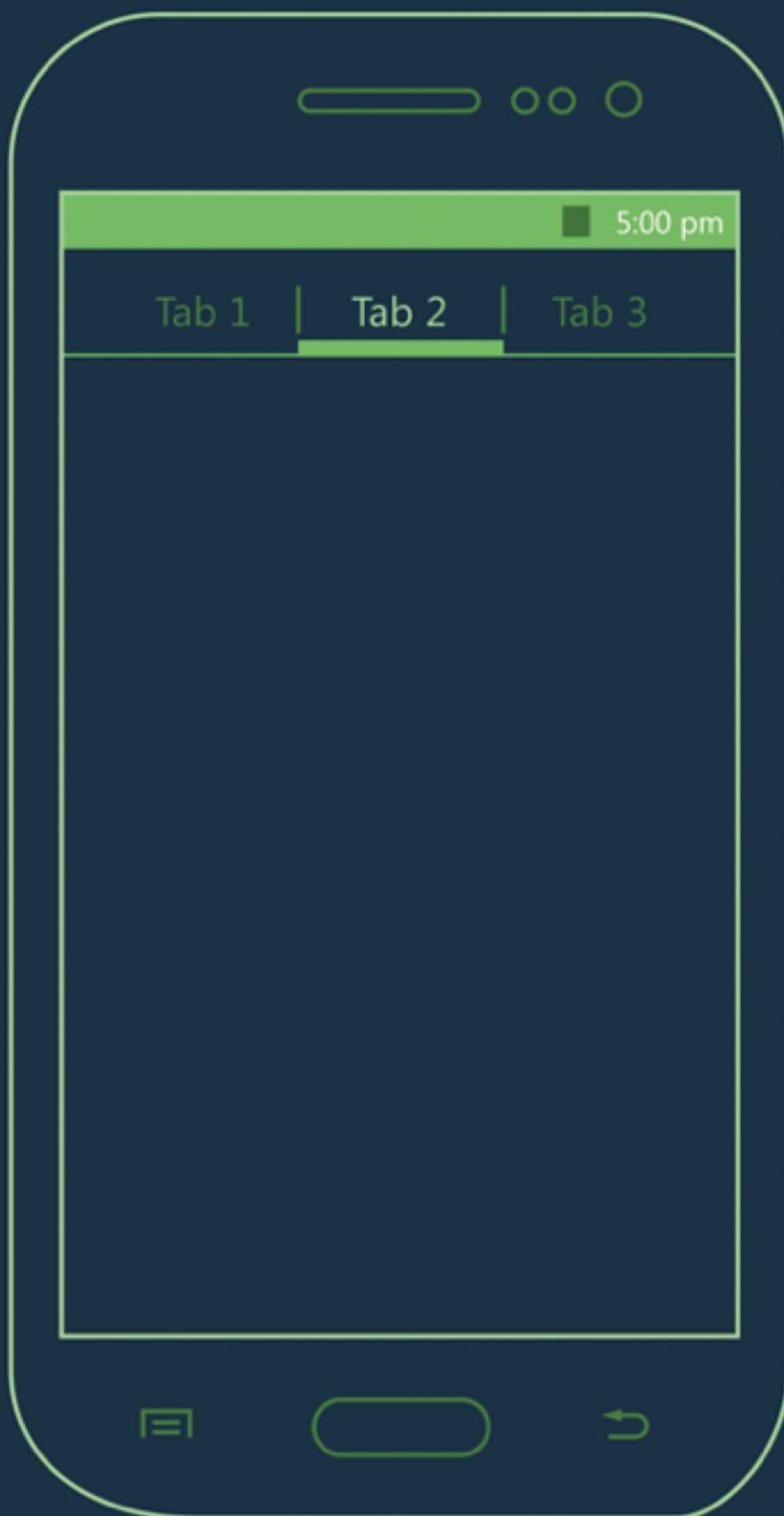


ToggleSwitch

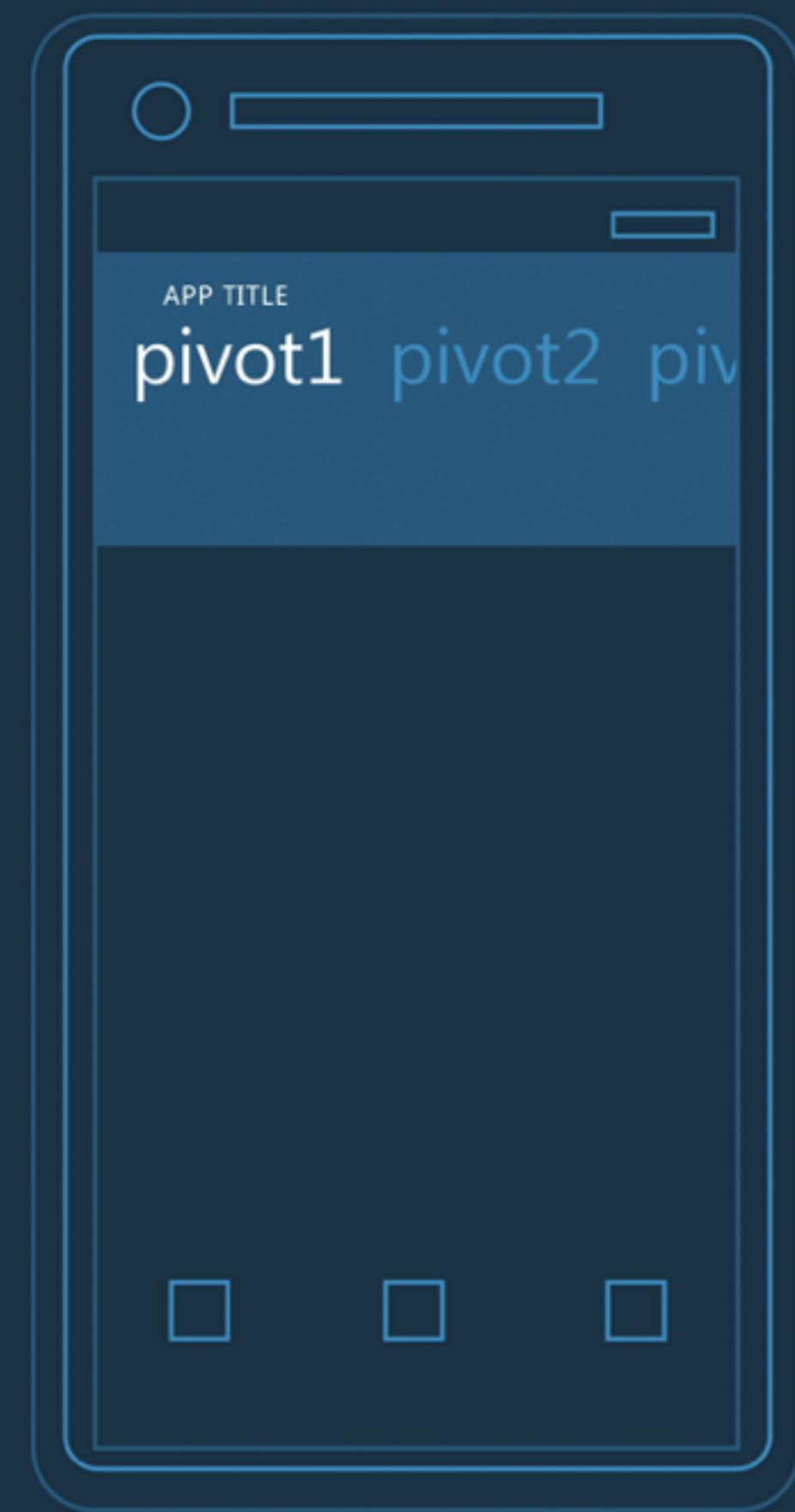
Tabs ●●●



UITabBar

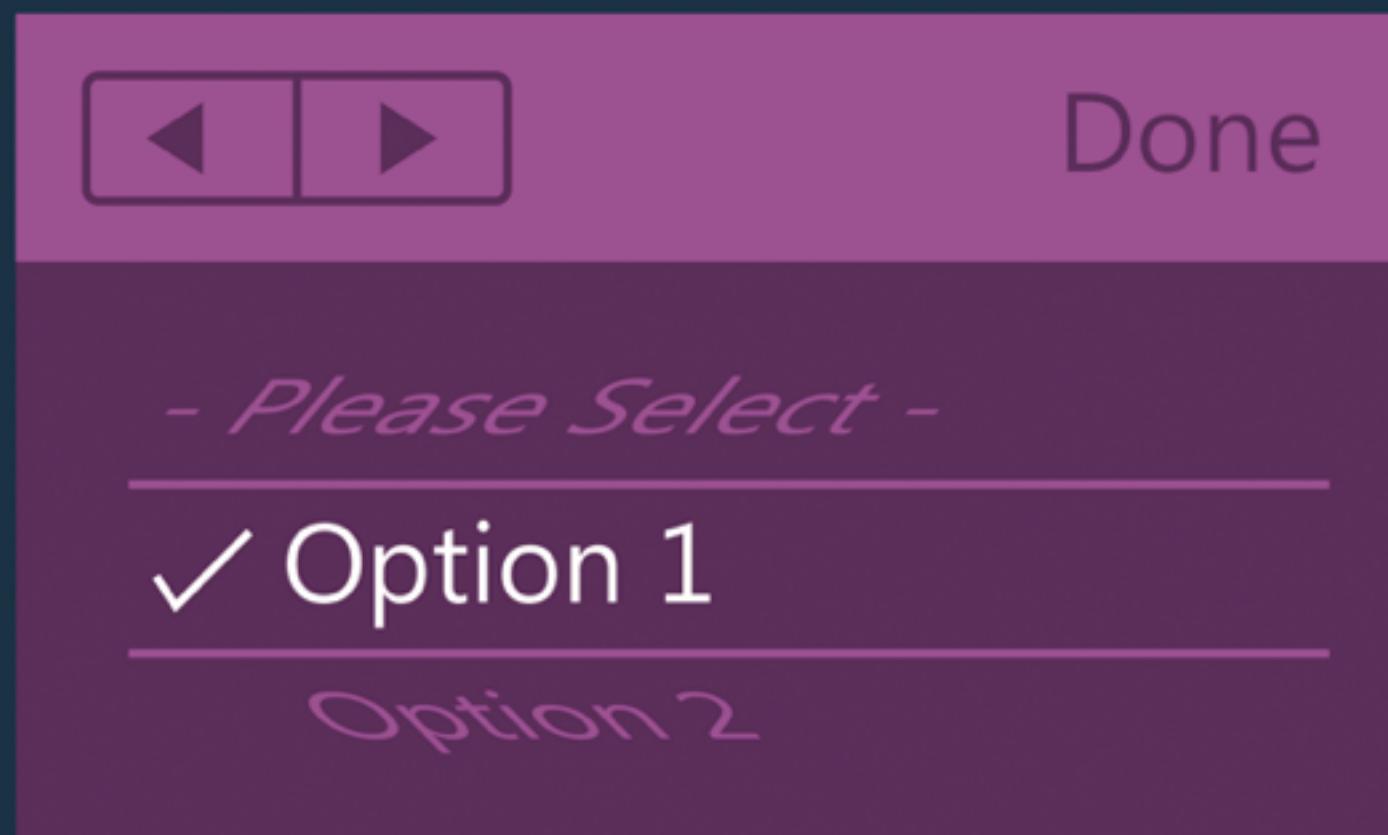


ActionBar Tabs

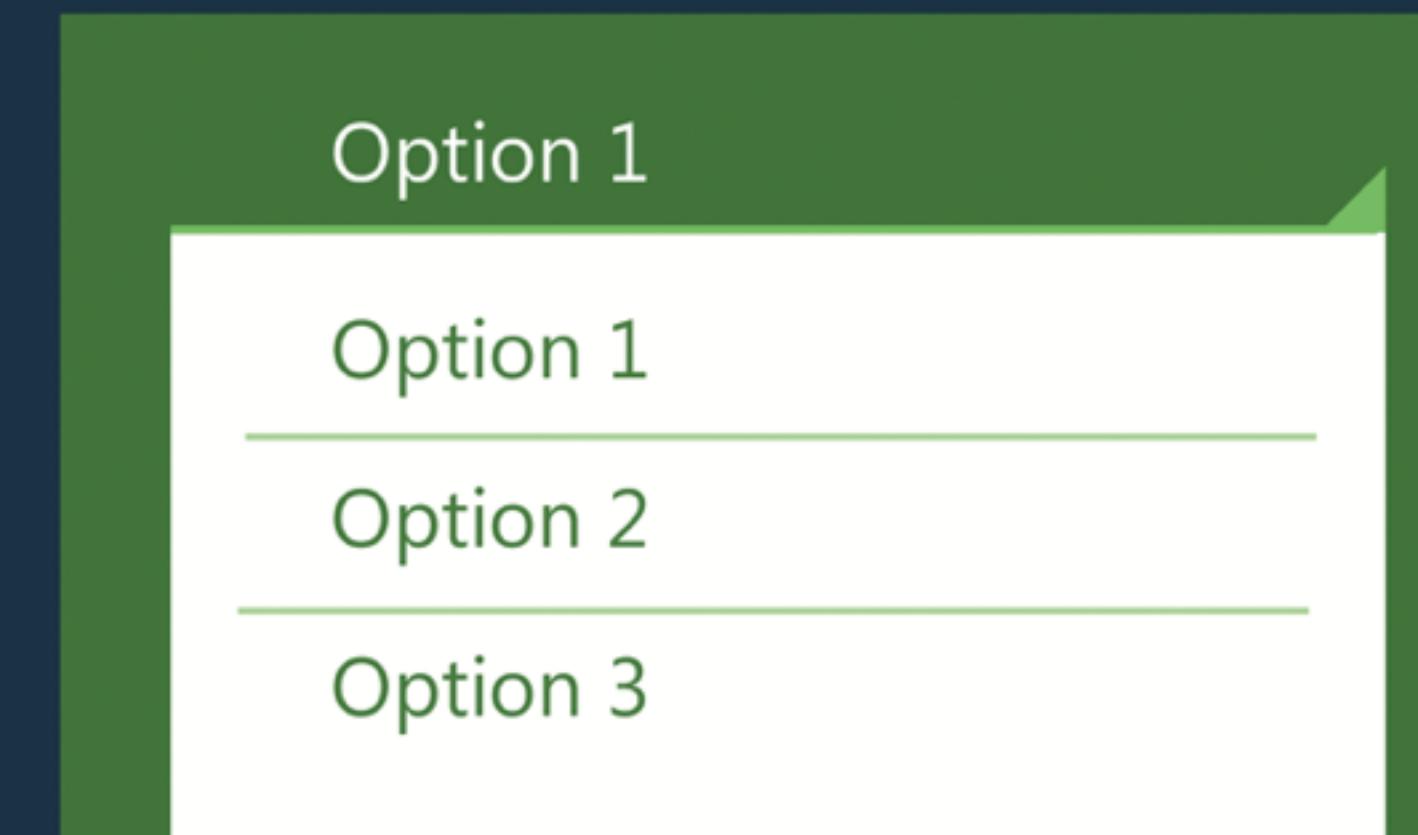


Pivot

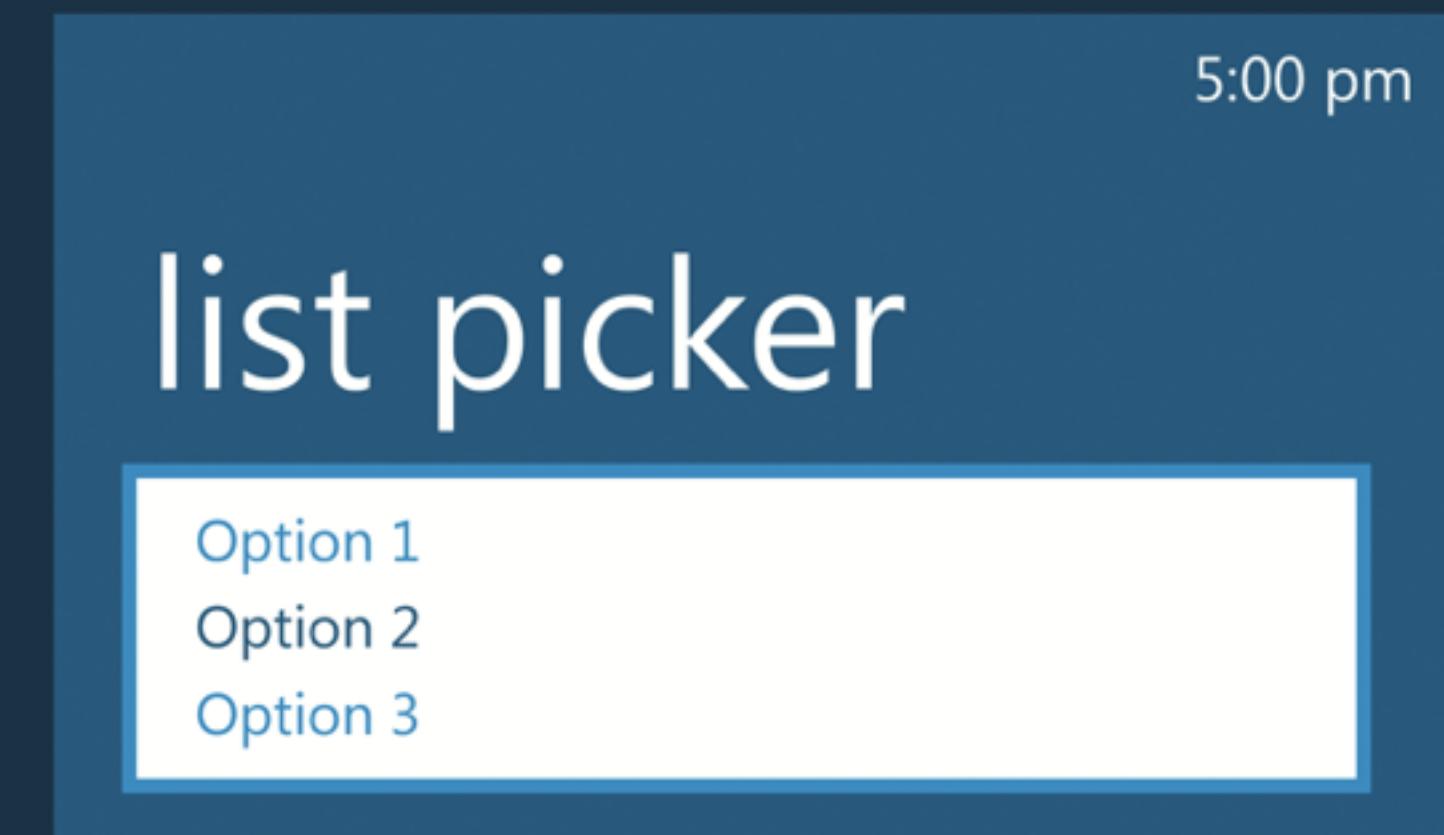
Pickers



UIPicker

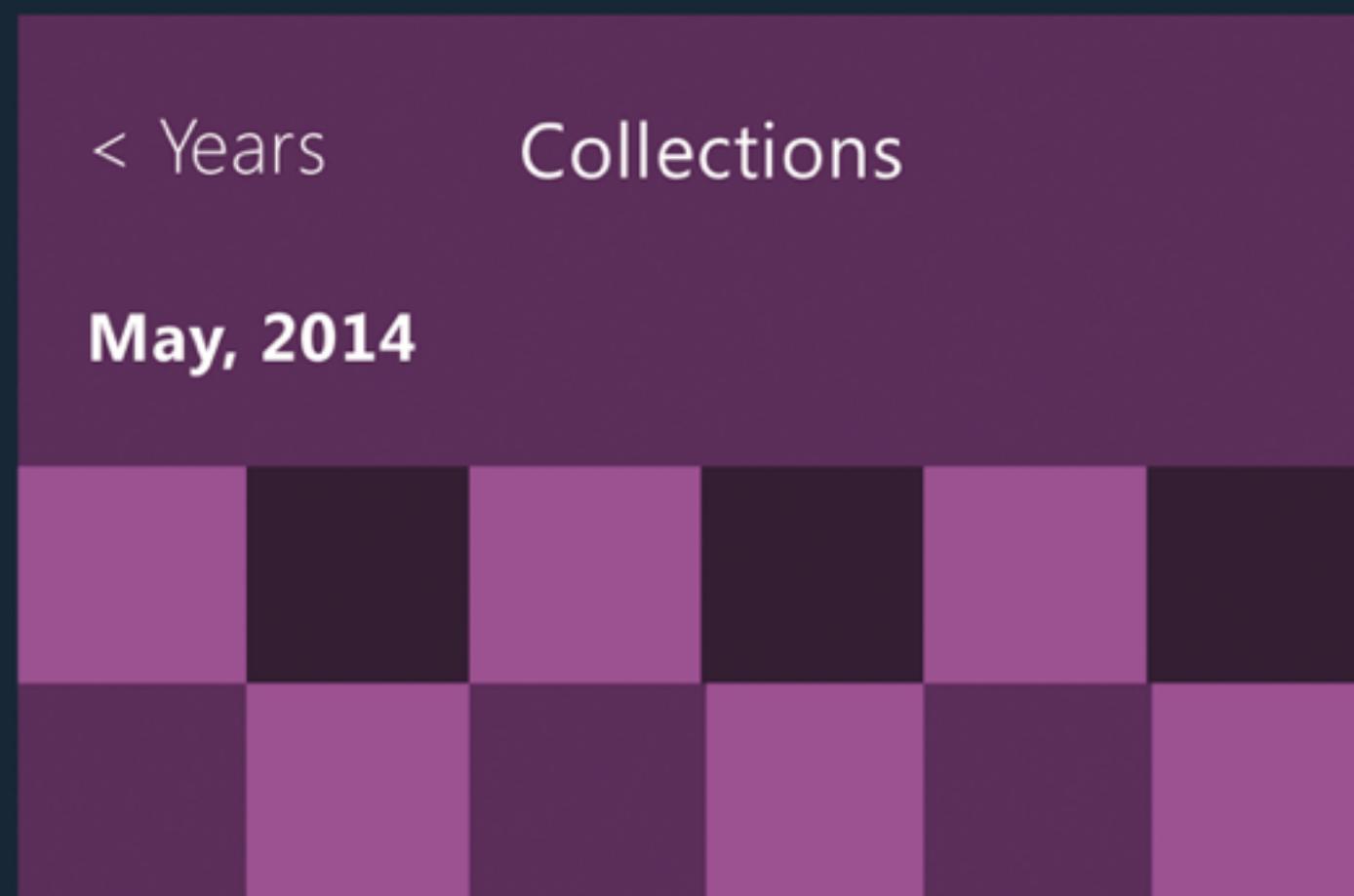


Spinner

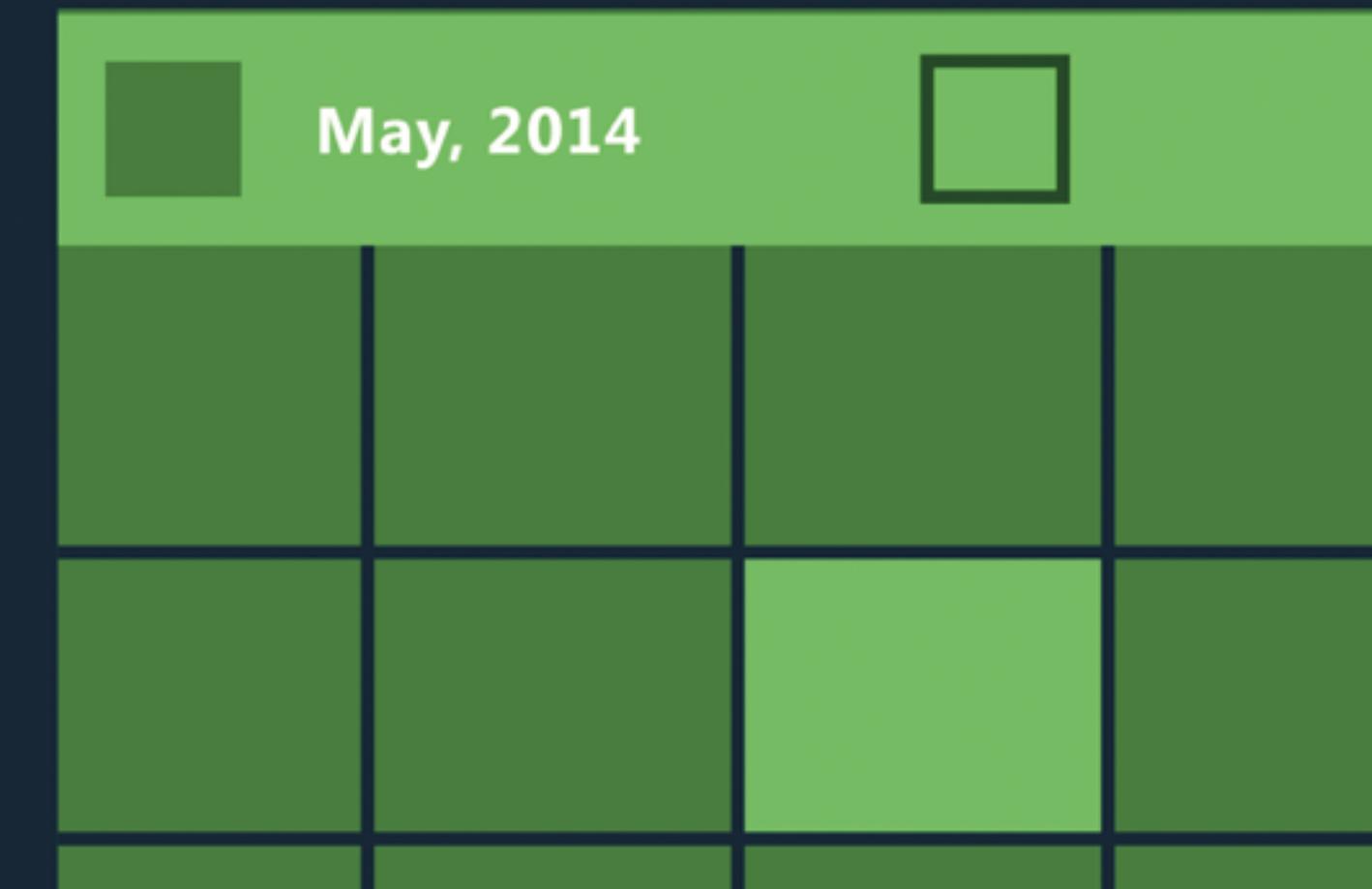


ListPicker

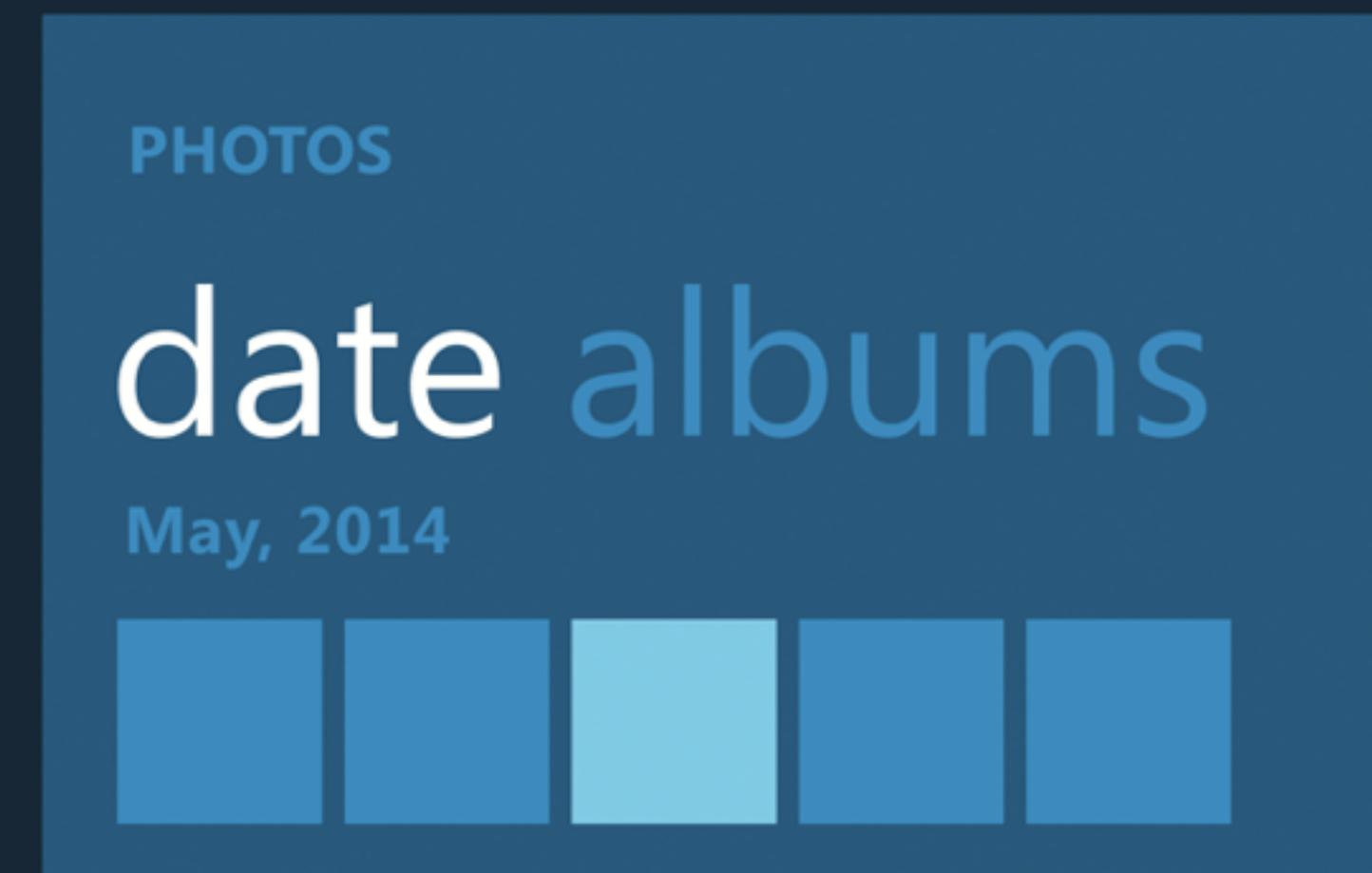
Grids



UICollectionView



GridView



LongListSelector

Tables

Item 1

Item 2

Item 3

UITableView

Item 1

Item 2

Item 3

ListView

Item 1

Item 2

Item 3

LongListSelector

Web Controls

xamarin.com

Xamarin

Menu ▾

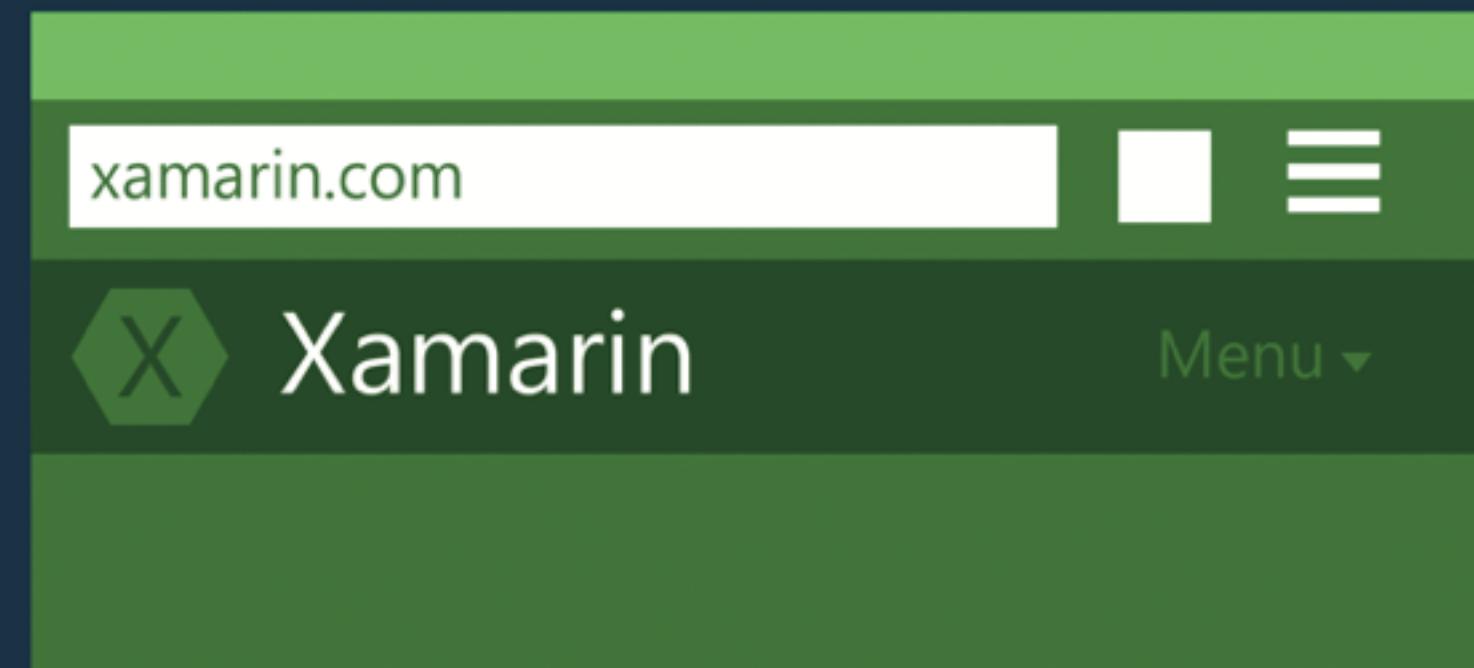


UIWebView

xamarin.com

Xamarin

Menu ▾



WebView

EXAMPLE

xamarin.com

Xamarin

Menu ▾



WebBrowser

Spinners •••



UIActivityIndicatorView

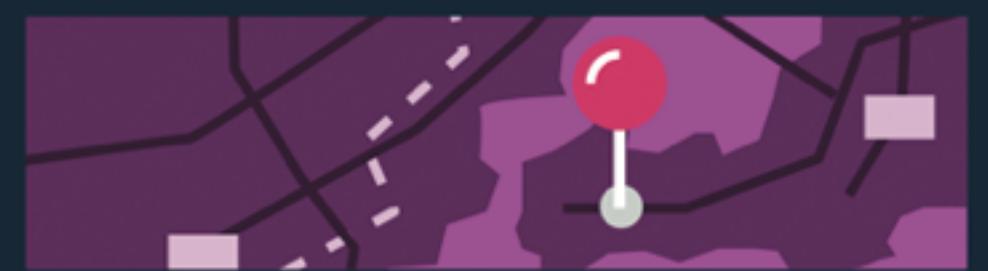


ProgressBar

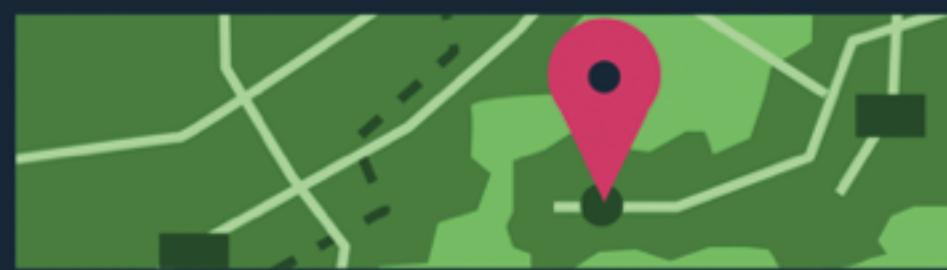


ProgressBar

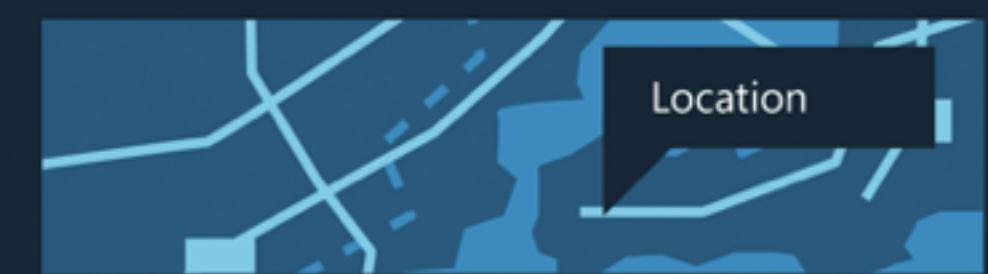
Maps •••



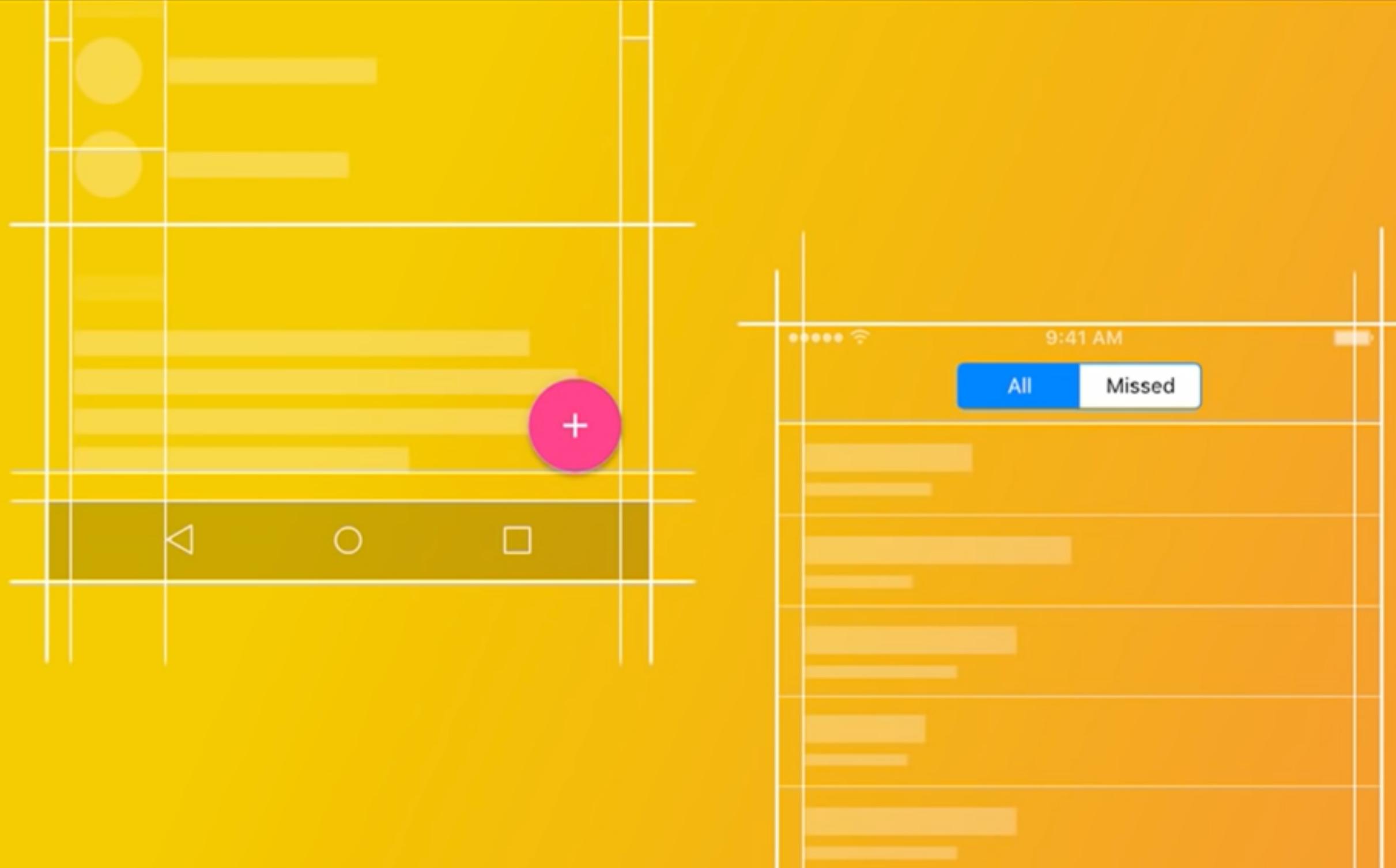
MKMapView



GoogleMap



Map



Native Embedding

iOS

```
formsLayout.Children.Add(segmentedControl);
```

Android

```
formsLayout.Children.Add(floatingActionButton);
```

More advanced features

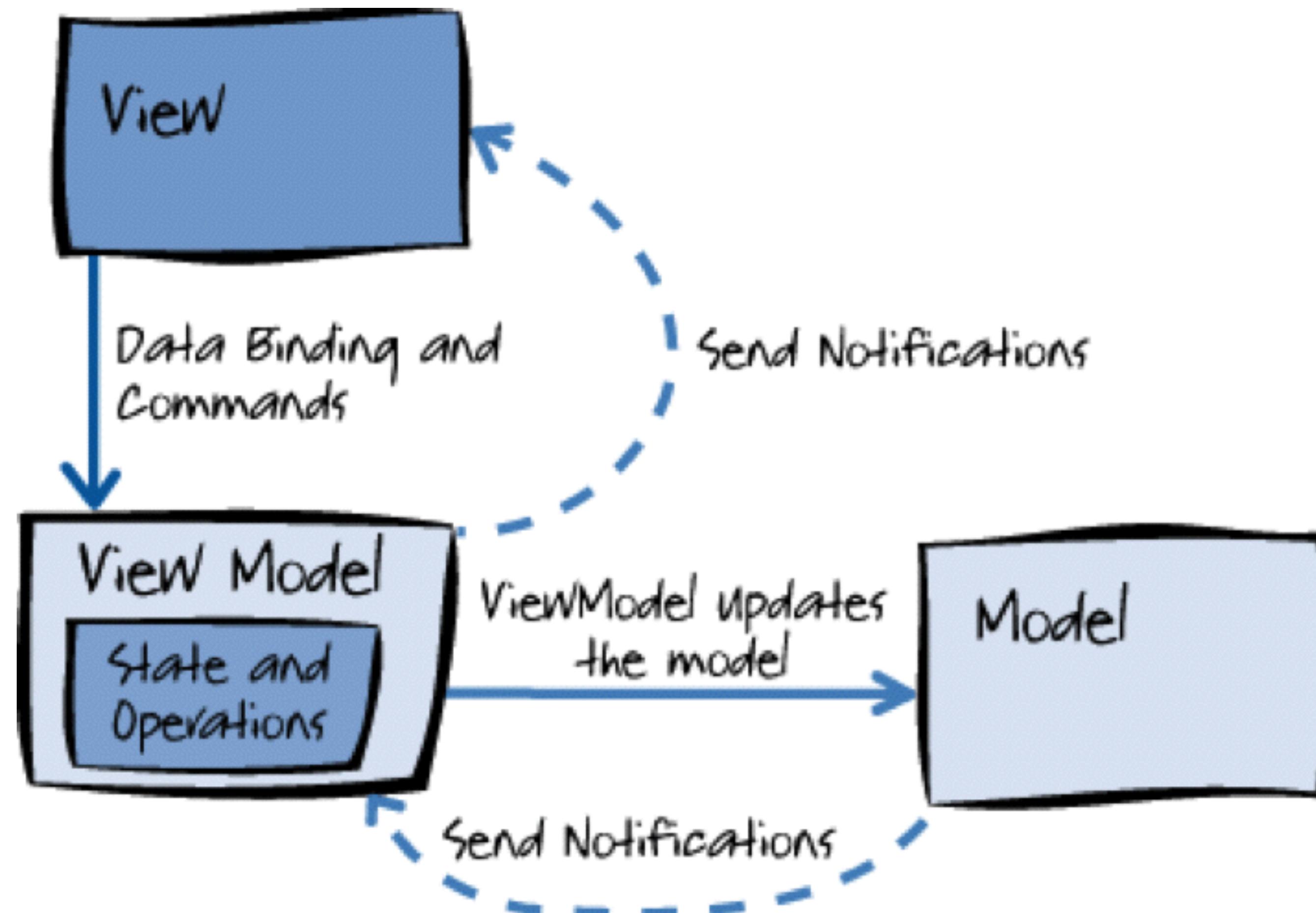
Embed Android and iOS controls in Forms Layouts. Add platform-specific controls directly to your Forms code without needing to wire up custom renderers.

Deep-link with URL Navigation. Create a more fluid interface between web, email, and other app-external sources by deep-linking Forms pages, data, and functionality within your app.

```
// MyApp.iOS/AppDelegate.cs
// Create a Xamarin.iOS UISegmentedControl
var mySegmentedControl = new UISegmentedControl();
mySegmentedControl.InsertSegment("One", 0, false);
mySegmentedControl.InsertSegment("Two", 1, false);

// Embed it right into Forms!
formsLayout.Children.Add(mySegmentedControl);
```

MVVM DESIGN PATTERN



THANKS

<https://github.com/michaeldimoudis/dddbynight-demo>