

**PV239 — 02- DESIGN**

# GOALS

Get to know available layouts

Try to create a layout with some controls

Get to know available navigation options

Bonus:

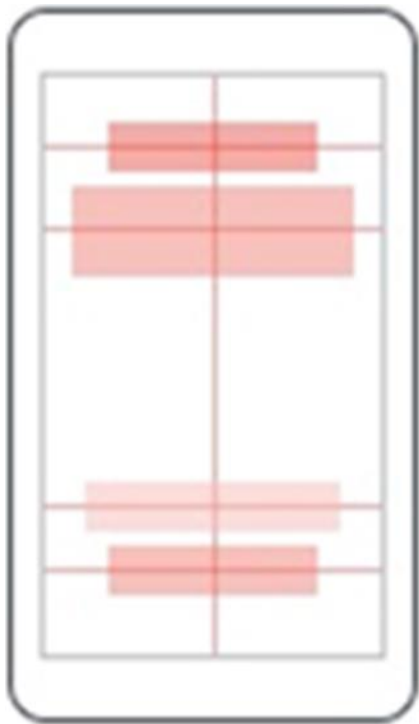
- Styles
- Localization

# CONTROLS

ActivityIndicator	BoxView	Button	DatePicker	Editor
Entry	Image	Label	TimePicker	Slider
OpenGLView	Picker	ProgressBar	SearchBar	Stepper
WebView	TableView	ListView	TextCell	EntryCell
ImageCell	SwitchCell	ViewCell	Map	...

# LAYOUTS

## AbsoluteLayout



## RelativeLayout

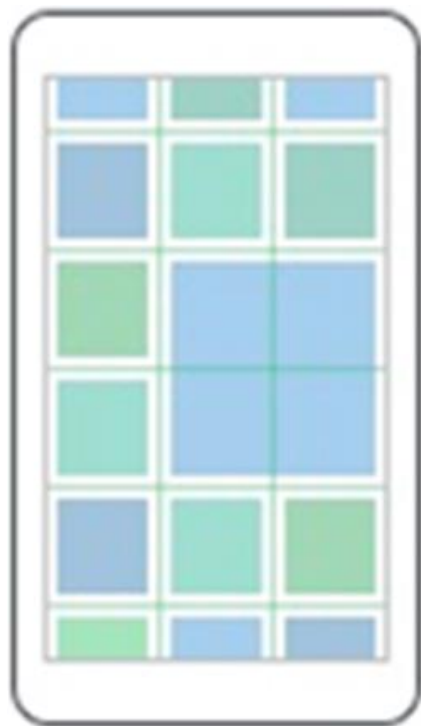


## FlexLayout

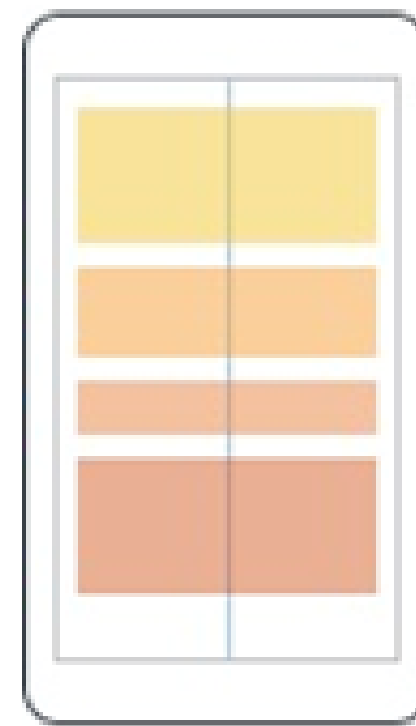


# LAYOUTS

## Grid



## StackLayout



# GRID

## Table-style layout

RowDefinitions, ColumnDefinitions

- Width / Height = 150 | \* | Auto

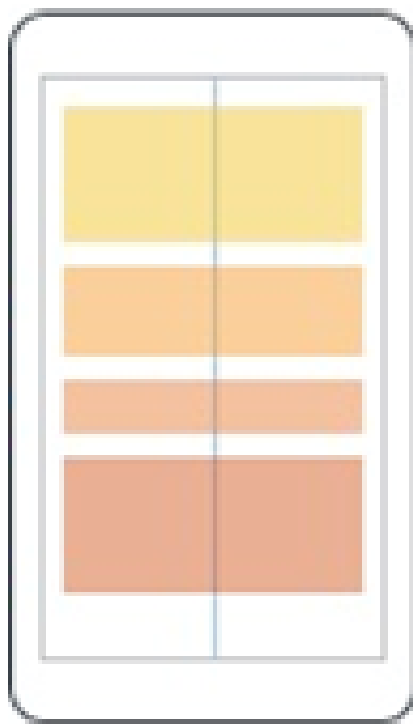
Grid.Row, Grid.Column – placement of control in the Grid

Grid.RowSpan, Grid.ColumnSpan – control can span over multiple “cells”

HorizontalSpacing, VerticalSpacing – empty space between “cells”

# STACKLAYOUT

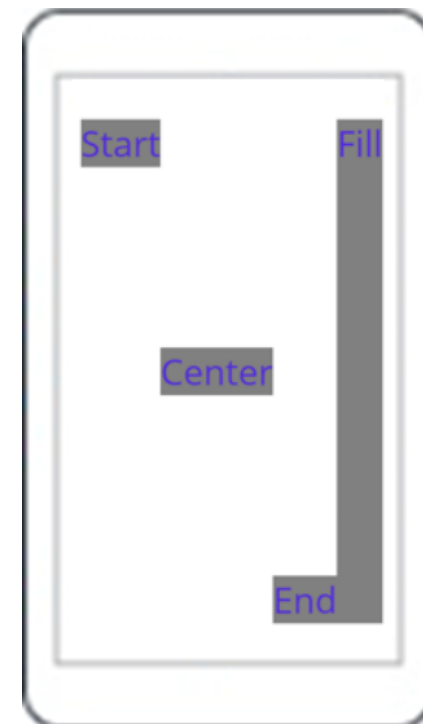
## StackLayout



## VerticalStackLayout



## HorizontalStackLayout



# STACKLAYOUT...

## HorizontalStackLayout, VerticalStackLayout

- Individual layouts for single direction
- Separate LayoutManagers with Measure methods
- Recommended (Performance)

## StackLayout

- Wraps **HorizontalStackLayout** and **VerticalStackLayout**
- Has Orientation
- Useful for adaptive layouts



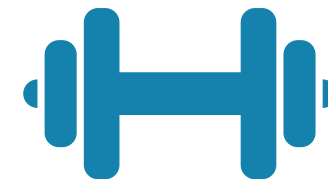
# LAYOUTS

Demo

# LAYOUTS

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Exercise



# EXERCISE - LAYOUTS

Grid, Horizontal/VerticalStackLayout

Image, Label, Button



# SHELL

Application layout

Navigation using URIs

Hierarchical navigation

Easy passing of parameters between pages

- String parameters or strongly typed objects
- Works even in backwards navigation “..`?success=true`”

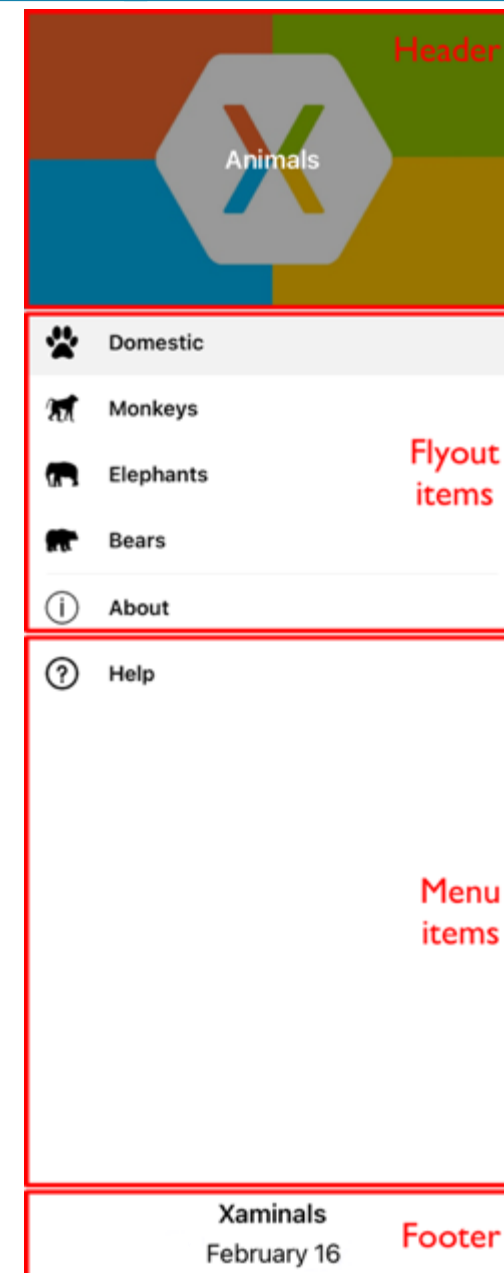
# SHELL - FLYOUT

Header

Items

Footer

Support for text, icons or custom templates

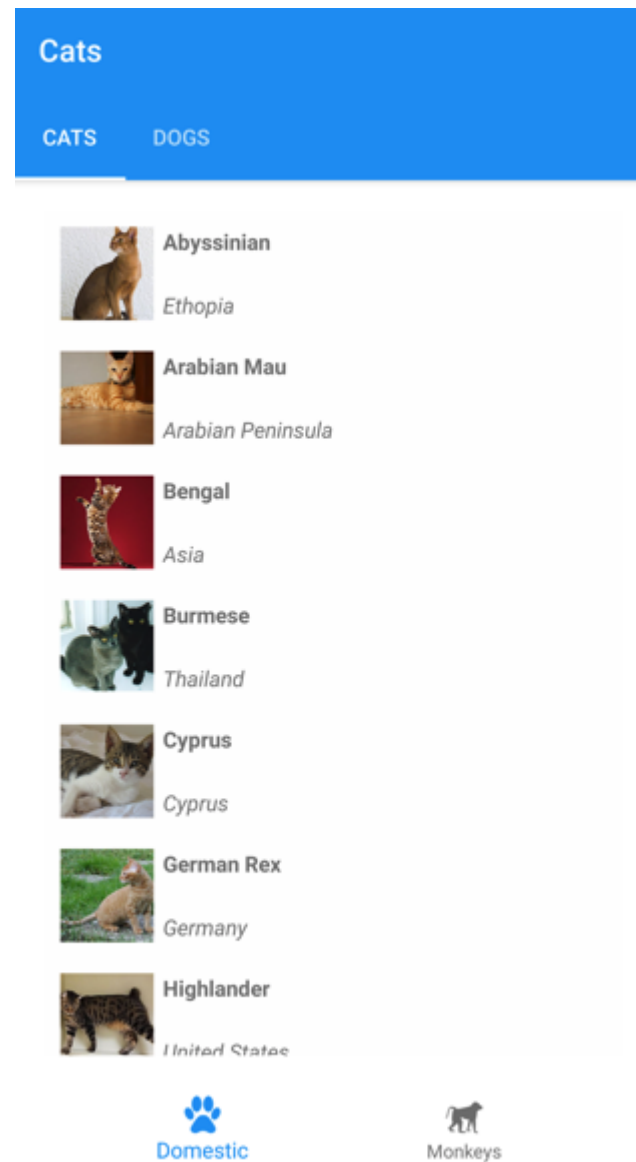


# SHELL - TABS

2 levels of hierarchy

- Bottom tabs
- Top tabs

Support for text, icons, custom templates



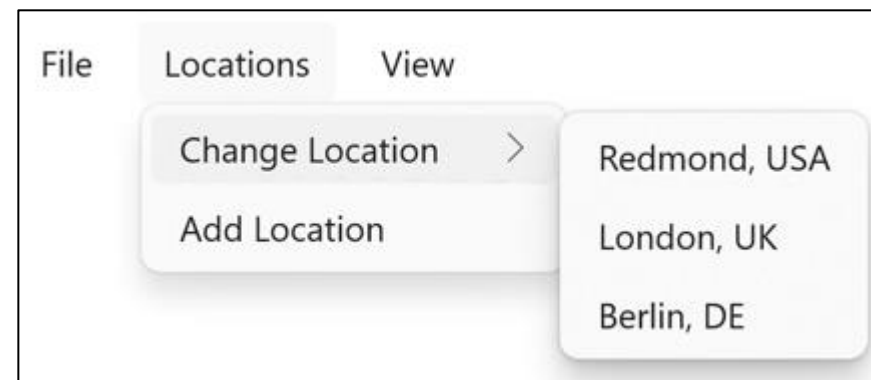
# SHELL - MENUBAR

MenuBarItem

MenuFlyoutItem

MenuFlyoutSubItem

Support for text, icons



# NAVIGATIONPAGE

NavigationPage

PushAsync

PopAsync



# PAGES

## ContentPage

Single content



## TabbedPage

Tabs



## FlyoutPage

Items + detail



# NAVIGATION

Demo

# RESOURCES

Each element contains a collection of **Resources**

Resources can define any content

Referencing using **x:Key**

Access with **{StaticResource Key}**

Can be defined in separate files - **merged dictionaries**

Hierarchical application

- Can be overridden on any level

# STYLES

Settign style for a control

**TargetType** – specifies which element type it should be applied to

**x:Key** – key of style, can be omitted – in that case it will be automatically applied to all controls of the type

Collection of **Setter** objects

- **Property**
- **Value**

**BasedOn** – base style that this style extends – optional

# STYLES

Demo

# GOALS

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Bonus:

- Styles
- Localization