

Lab 5 – Tool Box

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Outlines

- Xamarin.Forms Tool Box (Controls)
 1. Image
 2. Stepper
 3. ProgressBar
 4. CarouselView



Images in Xamarin.Forms

Xamarin.Forms uses the Image view to display images on a page. It has several important properties:

- Source - An ImageSource instance, either File, Uri or Resource, which sets the image to display.
- Aspect - How to size the image within the bounds it is being displayed within (whether to stretch, crop or letterbox).

XAML → `<Image Source="waterfront.jpg" />`

C# → `var image = new Image { Source = "waterfront.jpg" };`

More details: [Images in Xamarin.Forms - Xamarin | Microsoft Docs](#)



Xamarin.Forms Stepper

- Use a Stepper for selecting a numeric value from a range of values.
- The Xamarin.Forms [Stepper](#) consists of two buttons labeled with minus and plus signs. These buttons can be manipulated by the user to incrementally select a double value from a range of values.

The [Stepper](#) defines four properties of type double:

- [Increment](#) is the amount to change the selected value by, with a default value of 1.
- [Minimum](#) is the minimum of the range, with a default value of 0.
- [Maximum](#) is the maximum of the range, with a default value of 100.
- [Value](#) is the stepper's value, which can range between `Minimum` and `Maximum` and has a default value of 0.

XAML → `<Stepper Maximum="100" Increment="1"/>`



Xamarin.Forms ProgressBar

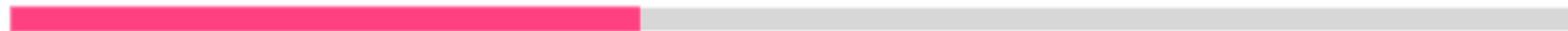
The Xamarin.Forms ProgressBar control visually represents progress as a horizontal bar that is filled to a percentage represented by a float value. The ProgressBar class inherits from View.

XAML → `<ProgressBar Progress="0.5" />`

iOS



Android



[More Details: Xamarin.Forms ProgressBar - Xamarin | Microsoft Docs](#)



Xamarin.Forms CarouselView

- The CarouselView is a view for presenting data in a scrollable layout, where users can swipe to move through a collection of items.
- A CarouselView is populated with data by setting its ItemsSource property to any collection that implements IEnumerable. The appearance of each item can be defined by setting the ItemTemplate property to a DataTemplate.
- By default, a CarouselView will display its items in a horizontal list. However, it also has access to the same layouts as CollectionView, including a vertical orientation.



- XAML →

```
<CarouselView x:Name="MyCarouselView" HeightRequest="400" IsScrollAnimated="True"
>
    <CarouselView.ItemTemplate>
        <DataTemplate>
            <Image Source="{Binding .}"/>
        </DataTemplate>
    </CarouselView.ItemTemplate>
</CarouselView>
```

- C# →

```
var images = new List<string>
{
    "image1.jpg",
    "image2.png",
    "image1.jpg"
};
MyCarouselView.ItemsSource = images;
```



Exercises

- 1- Create CarouselView and read 3 images from web.
- 2- Use stepper to increase and decrease the value of ProgressBar.



Any Questions?

