

Working With ItemsControls

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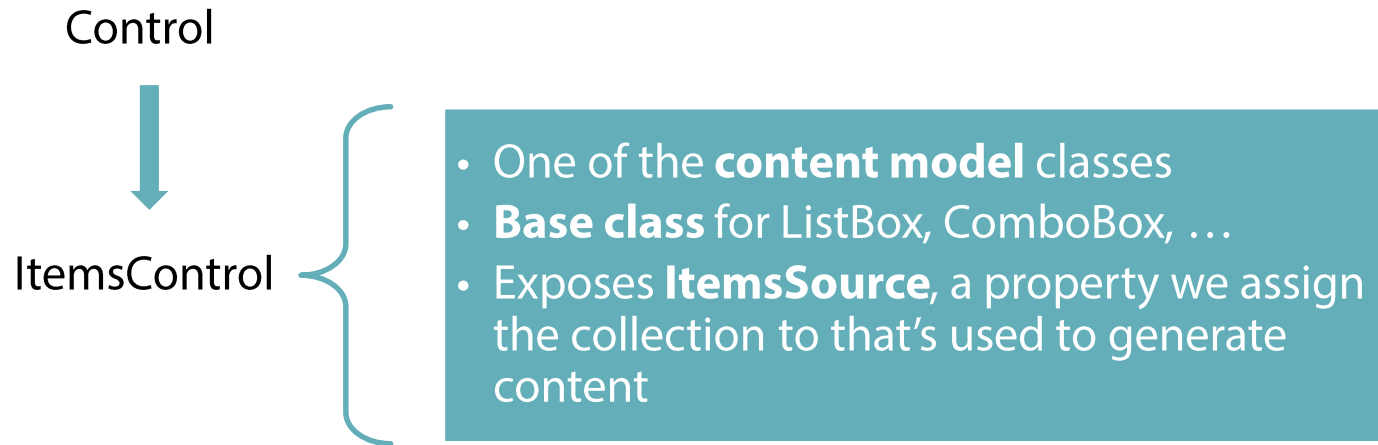
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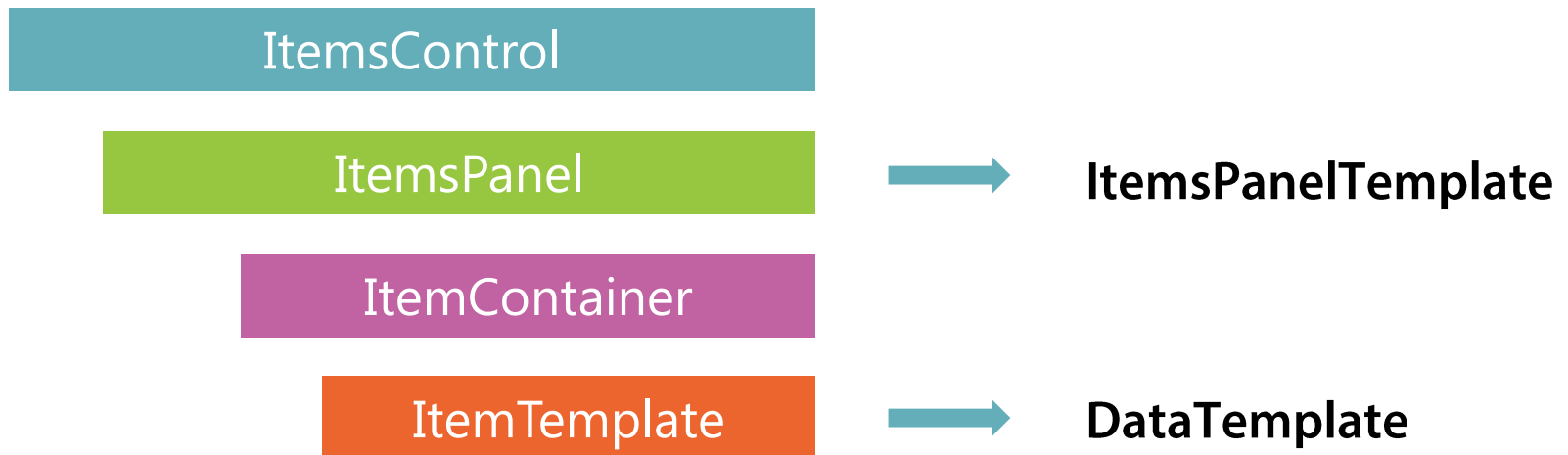
What's an ItemsControl?

When you want to display a list of data, you'll use an ItemsControl, or a class inheriting it.



A Look Into the Structure of an ItemsControl

Three important concepts: ItemsPanel, ItemTemplate and ItemContainer



What About Different DataTemplates?

A **DataTemplateSelector** allows us to choose a different **DataTemplate** to visualize each item in the collection

To use a
DataTemplateSelector

- Create a new class that inherits **DataTemplateSelector**
- Override and implement the **SelectTemplate** method
- Assign an instance of it to the **ItemTemplateSelector** property of the **ItemsControl**

Notifying the UI: Collections

A List doesn't notify the UI when an item is added or removed.

To allow
reporting
change

- The collection should implement the **INotifyCollectionChanged** interface
- This interface exposes a **CollectionChanged** event that should be invoked when the UI should be notified
- **ObservableCollection<T>** implements this

Summary

- **ItemsControl & its structure**
 - ItemsPanel
 - ItemContainer
 - ItemTemplate
- **DataTemplateSelector**
- **Notifying the UI**