# To Infinity and Beyond!

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# Module Overview

Application Lifecycle

MVVM architecture

Submitting to the Store

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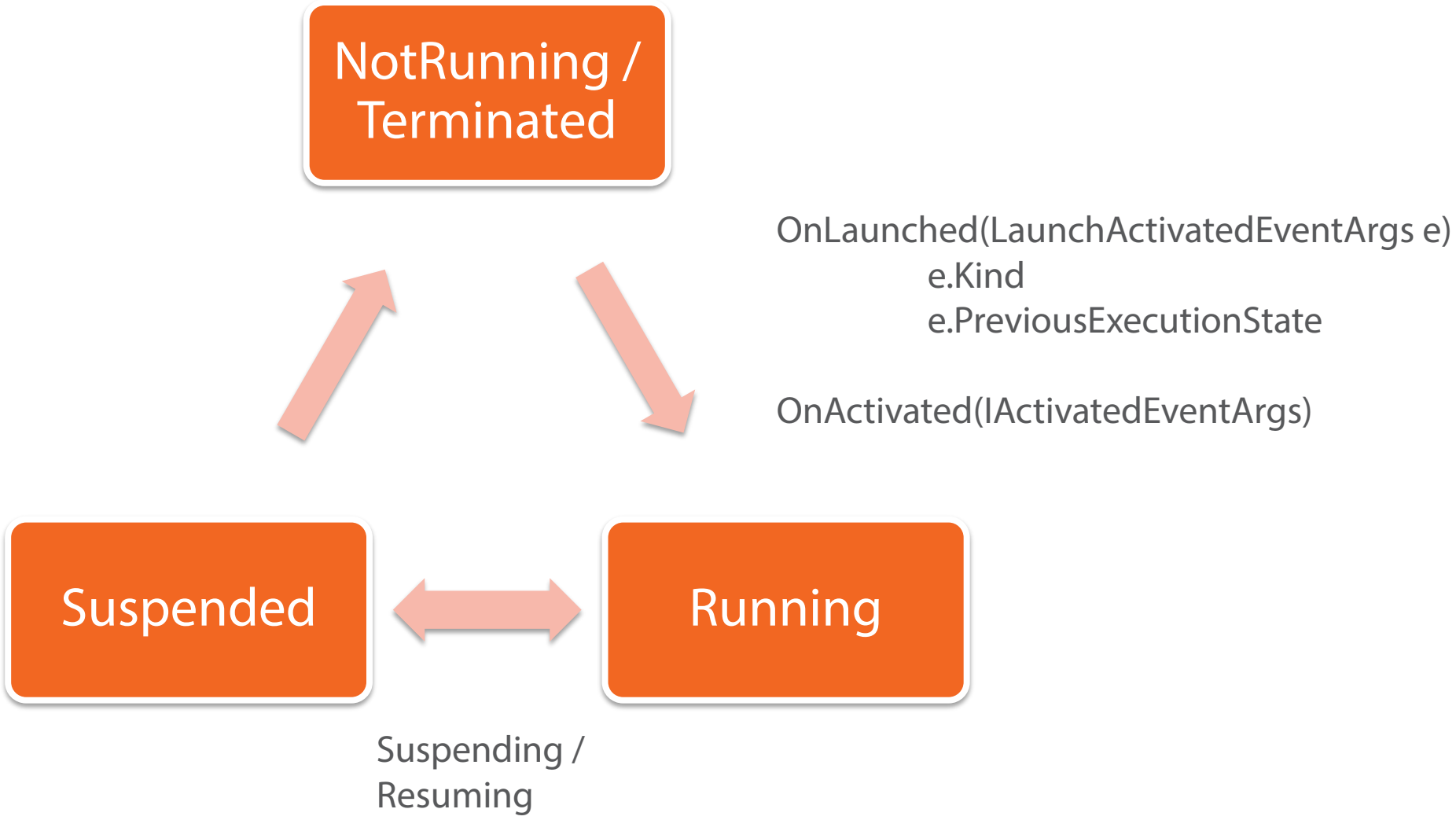
# Application Lifecycle

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# Suspending Event

```
/// <summary>
/// Invoked when application execution is being suspended.  Application state is saved
/// without knowing whether the application will be terminated or resumed with the contents
/// of memory still intact.
/// </summary>
/// <param name="sender">The source of the suspend request.</param>
/// <param name="e">Details about the suspend request.</param>
private void OnSuspending(object sender, SuspendingEventArgs e)
{
    var deferral = e.SuspendingOperation.GetDeferral();
    //TODO: Save application state and stop any background activity
    deferral.Complete();
}
```

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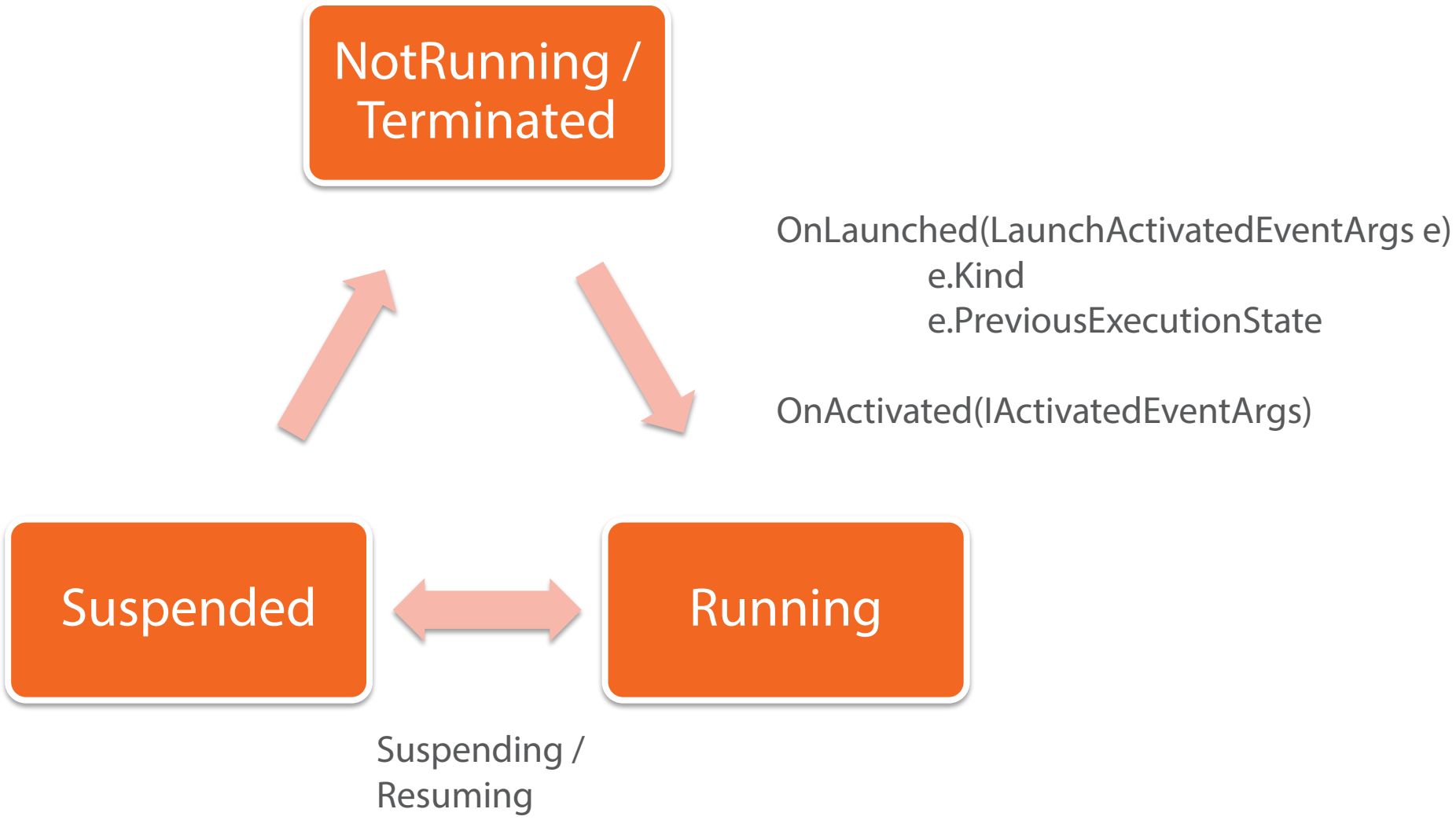
# Application Lifecycle

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# Designer – Developer Separation

Designers can experiment independently

Developers can create easily maintainable and testable code

MVVM: Model-View-ViewModel

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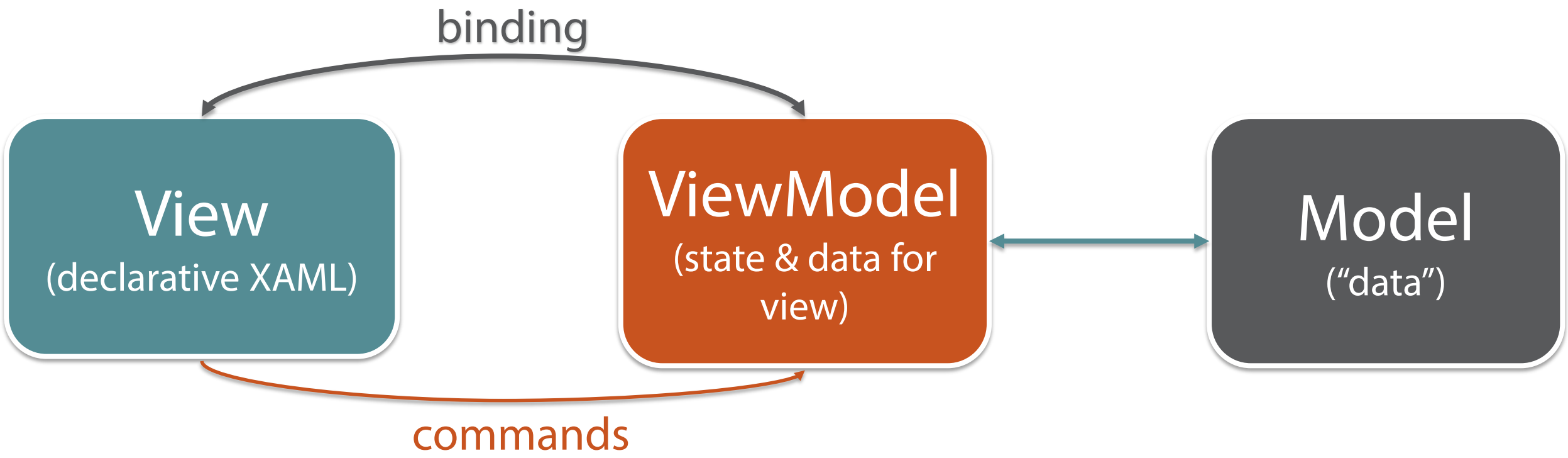
# Model-View-ViewModel

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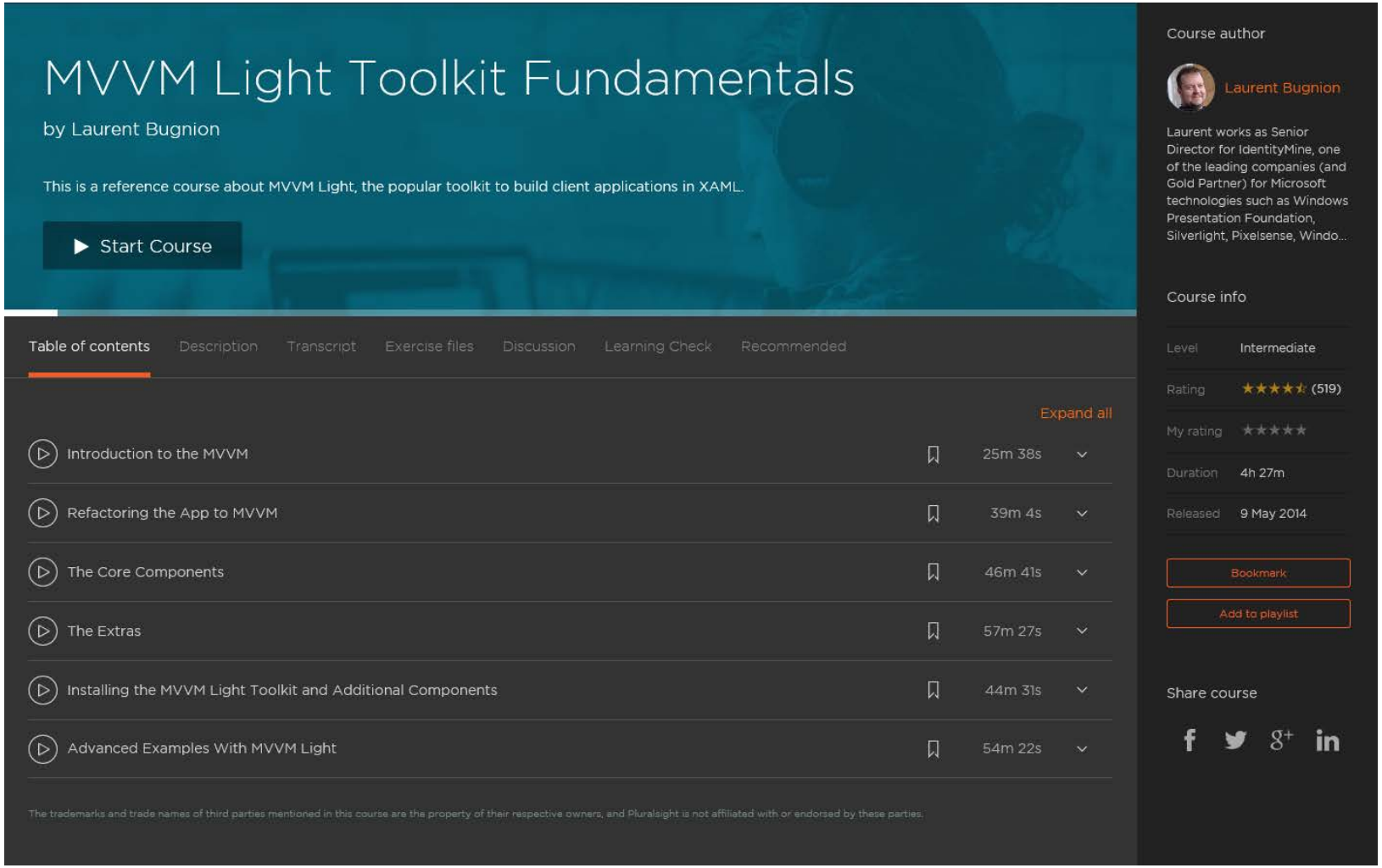
# MVVM Light Toolkit

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# Summary

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# Course Summary

- XAML
- Layout
- Databinding
- Templates and Styles
- Animations
- Behaviors
- Visual States
- Async - await
- Continuum
- Live Tiles, Notifications, Background Tasks, Cortana
- MVVM

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# Thank You!

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