

# FUTURE DECODED

6-7 OTT '16 / MILANO

IN PARTNERSHIP WITH:



CommunityDays.it

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# Come sopravvivere a MVVM con Xamarin Forms

**Corrado Cavalli**

SSDE @ [ibvsolutions.com](http://ibvsolutions.com)



@corcav

[blog.corradocavalli.com](http://blog.corradocavalli.com)

[corrado@outlook.com](mailto:corrado@outlook.com)

[www.futuredecoded.it](http://www.futuredecoded.it)

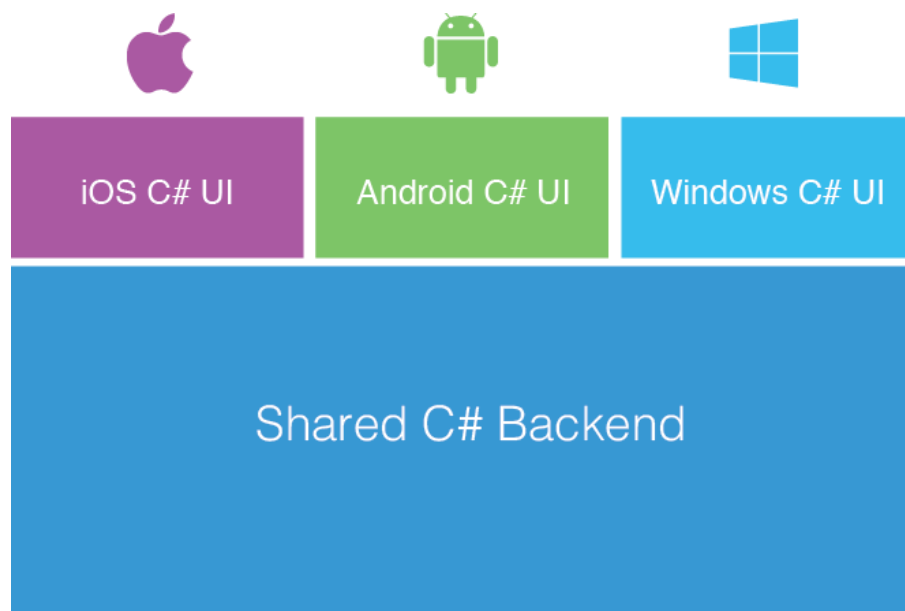


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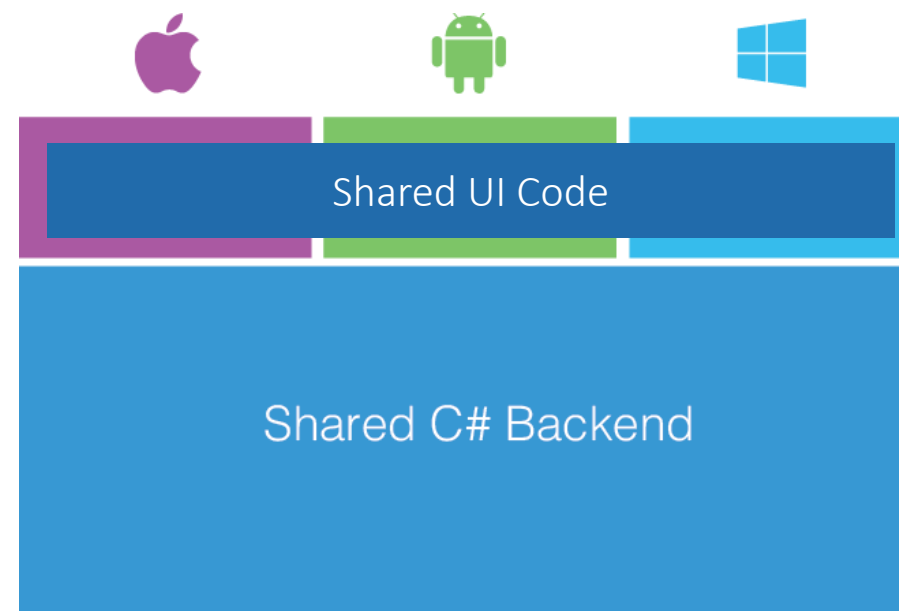


# Xamarin double face

- Le applicazioni Xamarin possono essere realizzate in due modi



Xamarin Classic



Xamarin Forms

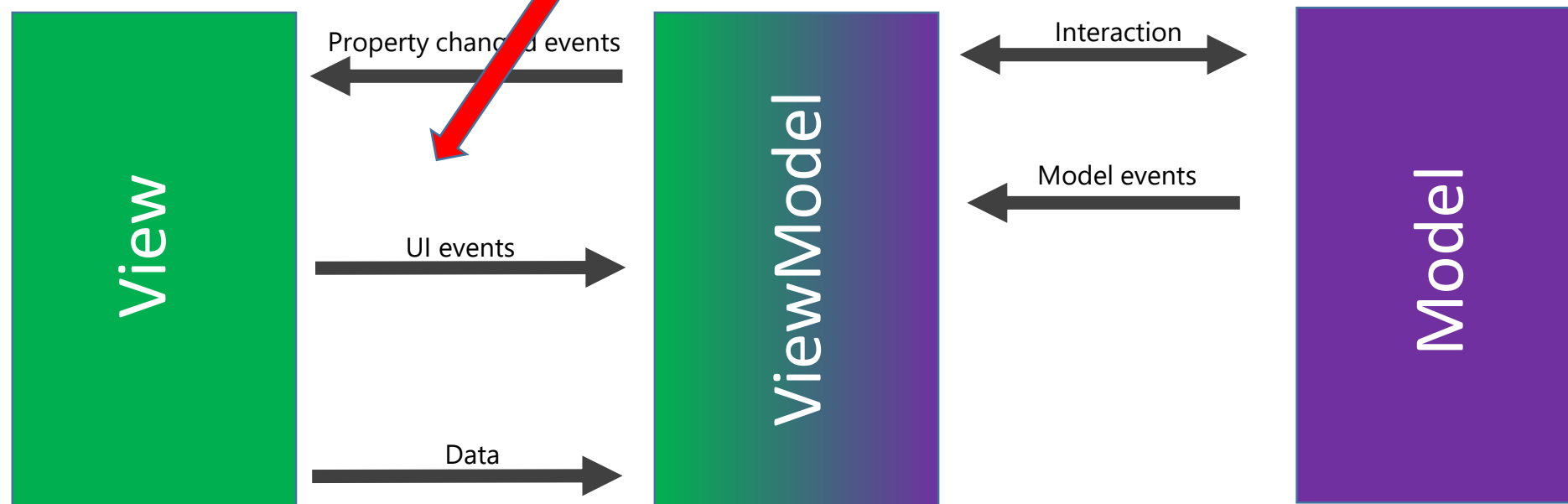
# Xamarin Forms

- E' un framework che permette di realizzare applicazioni native Android, iOS, UWP partendo da una singola codebase.
- Si appoggia su Xamarin.Android e Xamarin.iOS
- Sviluppo simile a UWP
- Valido in alcuni contesti, ma non sostituisce lo sviluppo classic

## Databinding!

# MVVM in a slide

- Metodologia di sviluppo di app basata sulla separazione dei ruoli
- 3 ruoli: Model, View e un 'intermediario' a.k.a ViewModel



# MVVM in Xamarin Forms

- Xamarin Forms ha già tutto quello che serve per realizzare app basate su MVVM
  - Databinding
  - INotifyPropertyChanged
  - ICommand
  - NavigationService
- Non c'è motivo per **non** usare MVVM con Xamarin Forms



# DEMO – MVVM w/o steroids

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# Ok, funziona, ma...

- Repeating code (INotifyPropertyChanged)
- Codice nel code-behind (ViewModel->BindingContext)
- Provider istanziato direttamente nel ViewModel (bye bye IOC pattern)
- Dobbiamo iniettare la view nel ViewModel
- DependencyService.Get<T>()
- Quindi? 🤔

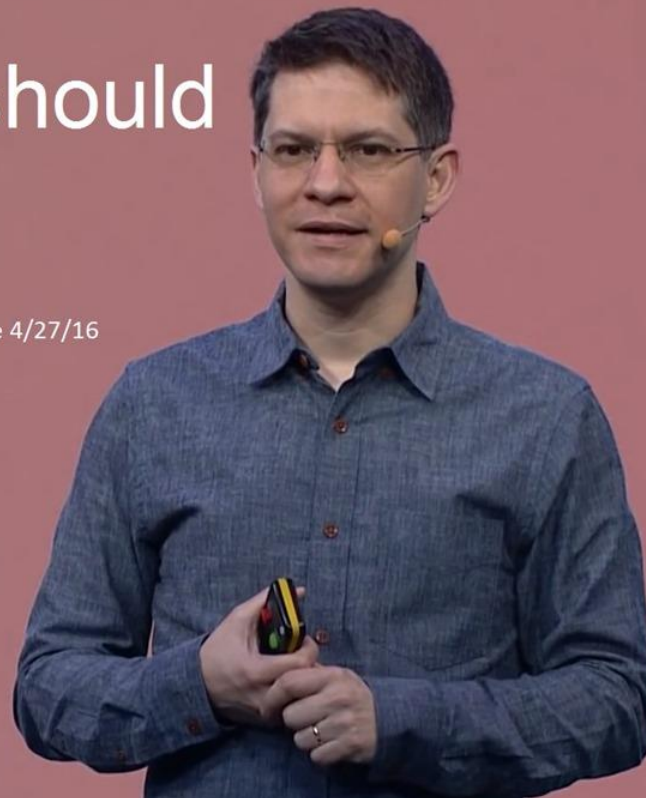
# Framework per MVVM

- MVVM Light - [www.mvmlight.com](http://www.mvmlight.com)
- FreshMVVM - <http://bit.ly/2dBnqHZ>
- Prism - <https://github.com/PrismLibrary/>
- Mugen - <http://bit.ly/2dBo6gw>
- MVVM Nano - <http://bit.ly/2dBnCaf>
- MVVM Cross - <https://mvvmcross.com/>
- Calcium - <http://calciumsdk.com/>
- Caliburn – <http://caliburnmicro.com>
- Exrin – [www.exrin.net](http://www.exrin.net)
- Reactive UI- <https://github.com/reactiveui/ReactiveUI>



"I think you should  
use Prism"

- Miguel de Icaza  
Xamarin Evolve Keynote 4/27/16



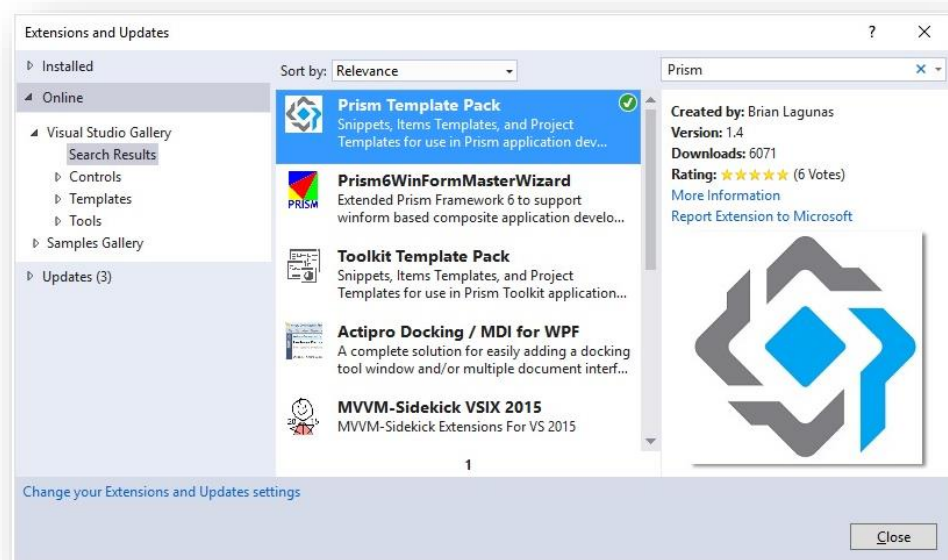
# Prism

- Creato dal gruppo P&P di Microsoft
- Diventato open source e community driven
- Lead by Brian Lagunas e Brian Noyes
- Disponibile per WPF, UWP e Xamarin Forms
- .NET Foundation



# Che fa Prism?

- Fa tutto quello che fa l'infrastruttura di Xamarin Forms
- Ma la fa molto meglio... 😊





# DEMO

PRISM in action

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# Ricapitolando

- Chi ha esperienza di sviluppo XAML non avrà problemi con Xamarin Forms
- XAML Previewer per Visual Studio e Xamarin Studio
- MVVM? Usate un framework
- Usate i behavior
- Controllo non MVVM friendly?
  - Ereditate o usate behavior

A night cityscape featuring several tall skyscrapers with illuminated windows. In the foreground, a multi-lane highway shows long-exposure light trails from vehicles, with red trails from taillights and white/yellow trails from headlights. A pedestrian bridge with a railing and some greenery is visible above the highway. The overall scene is a vibrant urban environment at night.

# Domande?

## Materiale su

<http://www.communitydays.it/>

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