

Cross Product and .NET App Development

Ben de Vries

Digital Design Developer





About the speaker

Ben de Vries

I have been working in the engineering field for 22 years. With a background in bridge drafting, I've always been interested in software and anything technical. I now find myself a full-time developer for the past 15 years working across the entire Aurecon business developing applications and automation in C# across all the Autodesk product range.

25
Countries

64
Offices

7200
People



Bringing ideas
to life





Where am I based in the world?

Agenda

SETUP

Create a visual studio solution that targets multiple .NET frameworks and Autodesk products

CODE

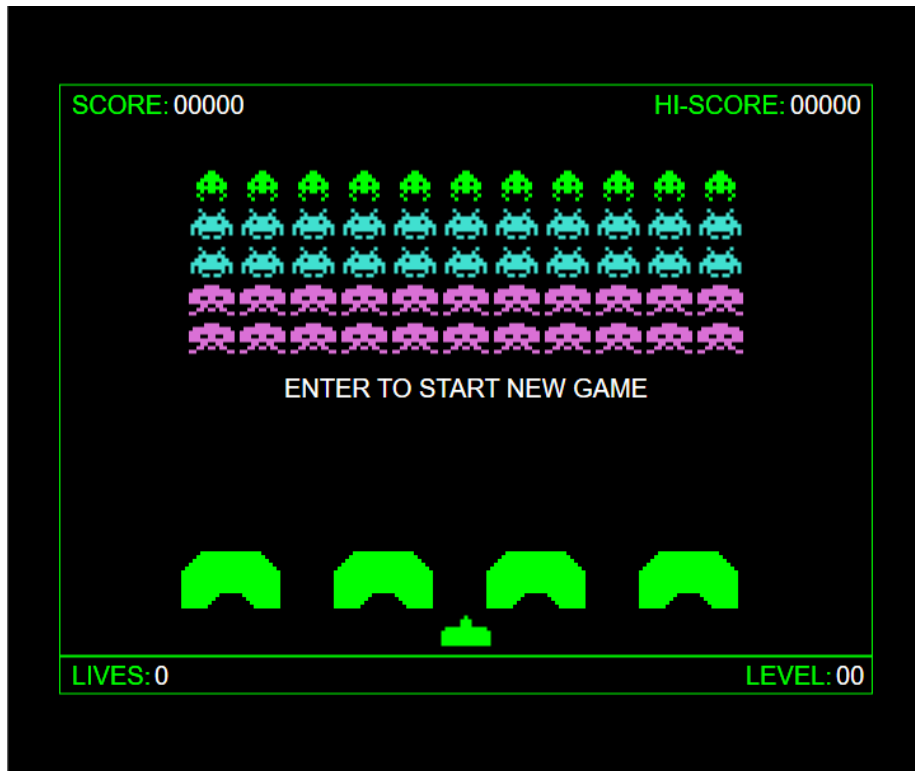
Learn how to code more efficiently by using some design patterns like IOC (Dependency Injection) and MVVM

DEPLOY

Create a bundle folder and wire up visual studio for easy debugging.

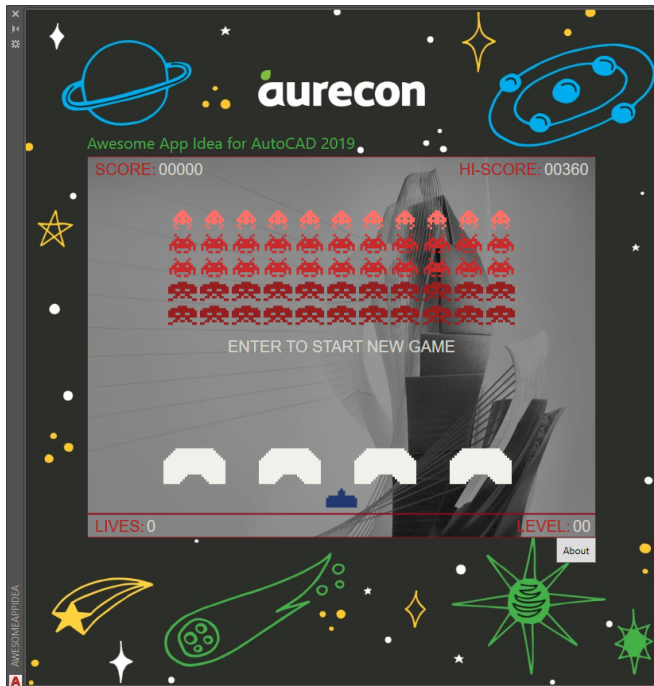
An Awesome App Idea

Awesome App Idea

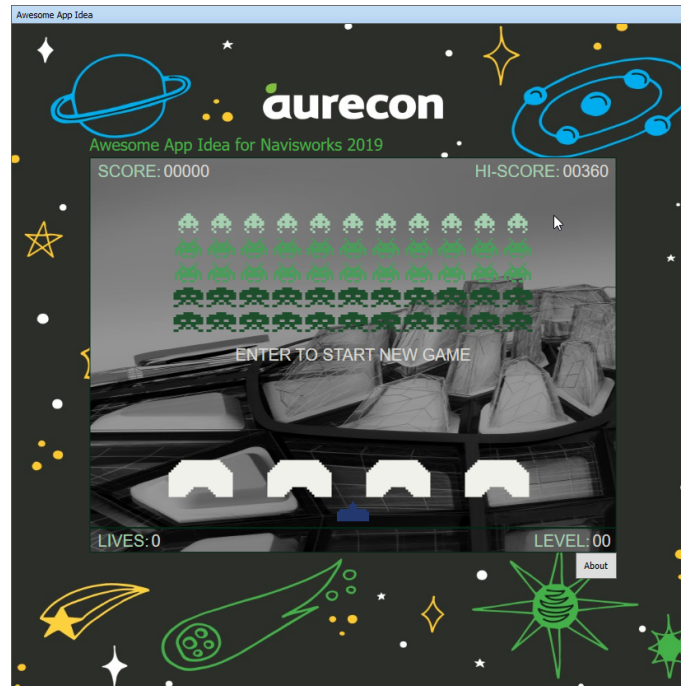


- <https://github.com/serhardt/space-invaders-wpf>
- WPF application
- Compiled class library
- Perfect example for AutoCAD, Navisworks and Revit

Awesome App Idea



AutoCAD 2016 to 2019 - Palette



Navisworks 2016 to 2019 – Dock Pane



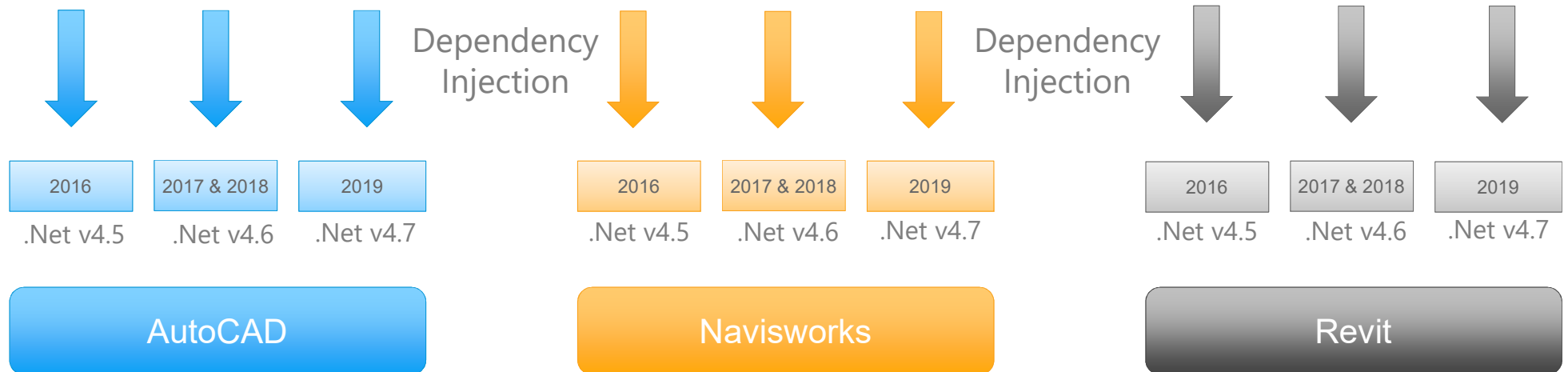
Revit 2016 to 2019 – Dock Pane

Design

UI (View and ViewModels)

↑
Dependency
Injection

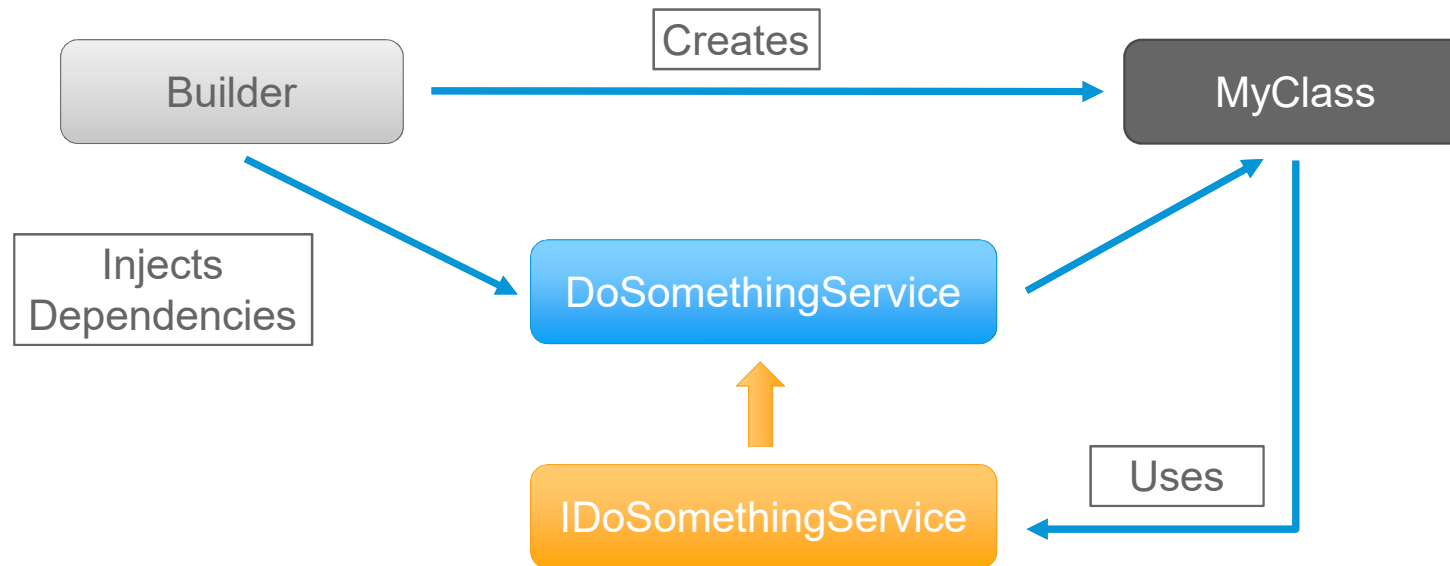
Core (Business Logic)



What is Dependency Injection?

“Dependency injection is a technique whereby one object supplies the dependencies of another object”

https://en.wikipedia.org/wiki/Dependency_injection



Let Code...

Thank You

<https://github.com/devriesb13/AwesomeAppIdea>



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