



Schneller zum Release mit Live-Unit-Testing und den Produktivitätstools von Visual Studio 2017

Manuel Meyer

Senior Consultant für .NET @ Trivadis AG / Visual Studio Dev. Tools MVP

www.manuelmeyer.net / [@manumeyer1](https://twitter.com/manumeyer1)

Über mich...

- Consultant & Trainer für .NET bei der Trivadis AG
- MVP für Visual Studio & Dev. Tools
- C# / XAML, Integration, Azure, Troubleshooting & Performance Management
- www.manuelmeyer.net
- www.azurezurichusergroup.com



Manuel Meyer

<http://manuelmeyer.net>

@manumeyer1



Agenda

- VS2017 Productivity Tricks
- Code Map
- Live Unit Testing & Intellitest
- Dependency Validation

Agenda



Demo Azure Cognitive Services

- Cognitive Samples: Intelligent Kiosk
 - <https://github.com/Microsoft/Cognitive-Samples-IntelligentKiosk>



VS2017 Productivity Tips

Secrets – Navigate To – Find All References

Productivity Secrets

- Quick Launch (Ctrl-Q)
 - Commands
 - Settings
- Scrollbar Map Mode
- Cycle Clipboard Ring
- Paste JSON/XML as Classes.

Improved "Navigate to... (Ctrl - ,)"

- Filters (f = files, t = types, # = symbols, m = members)
- Show Details.

Improved "Find all References"

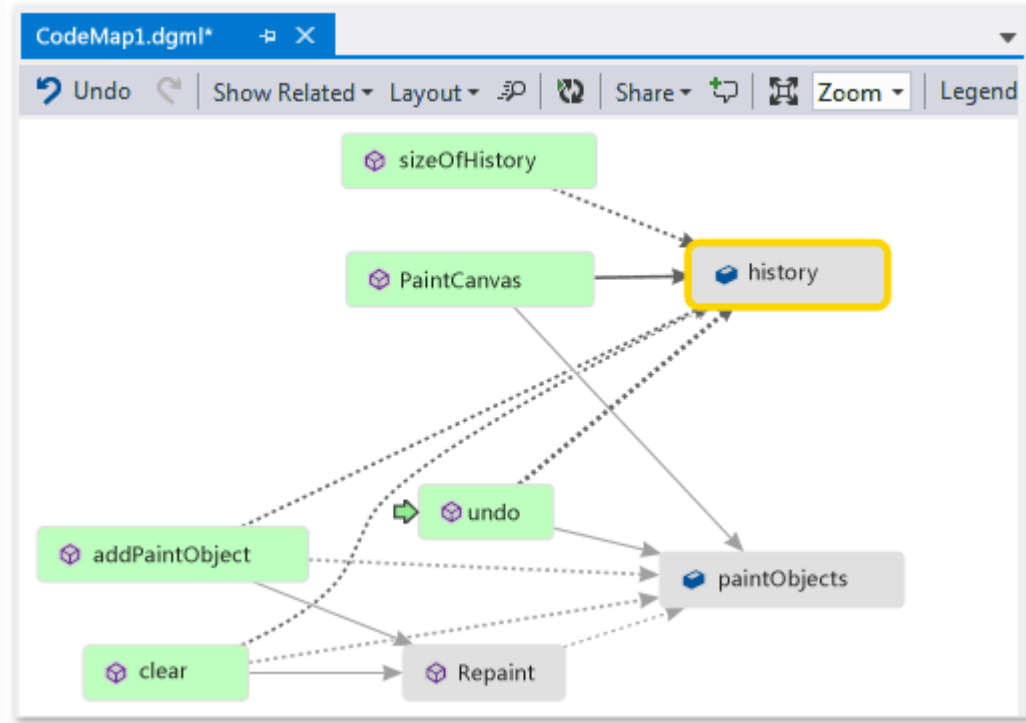
- Grouping
- Search
- Keep Results.

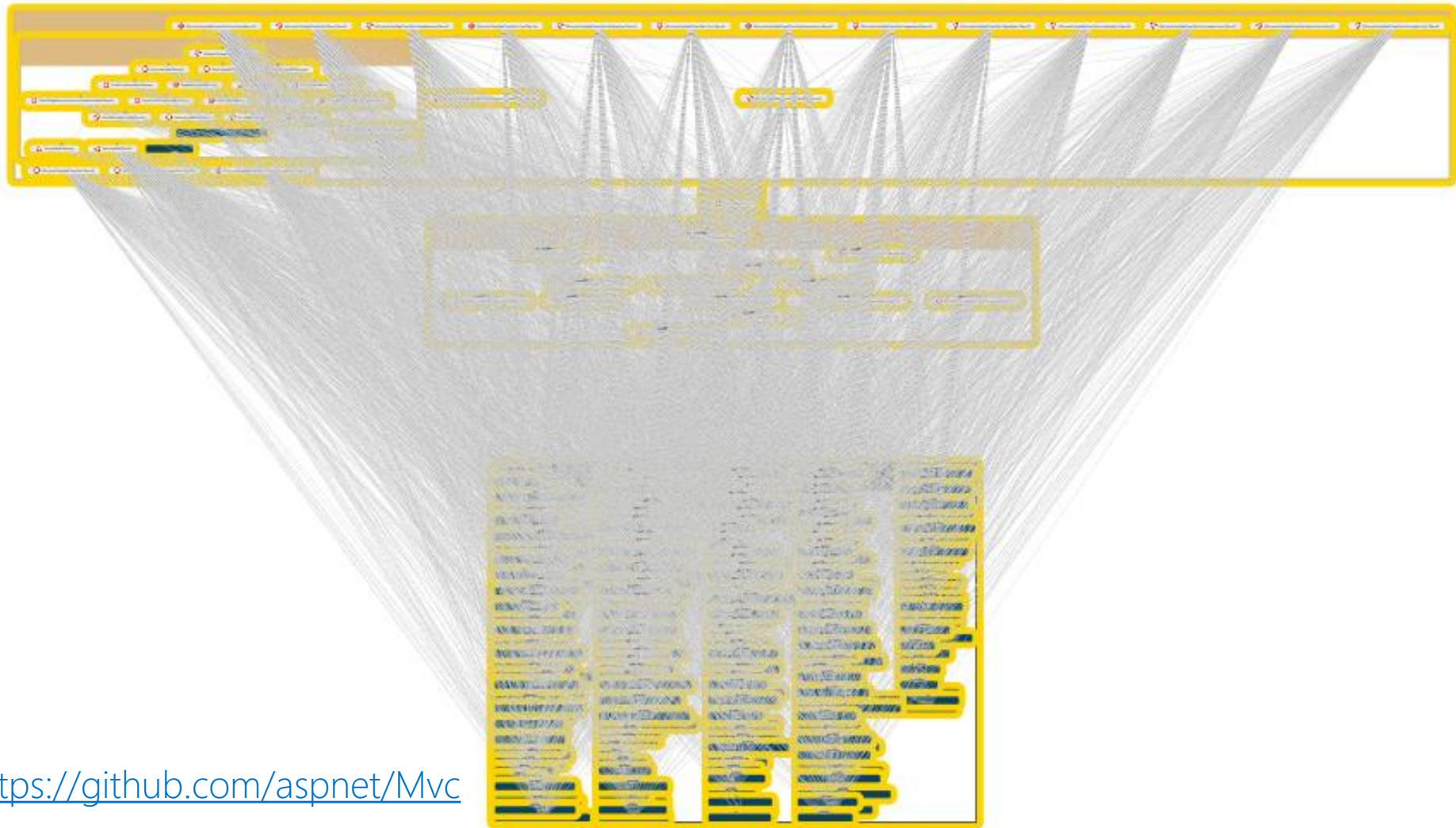
VS2017 Enterprise Features

Code Map – Live Unit Testing – Intellitest – Dependency Diagrams

Code Map

- Avoid getting lost in your code
- Understand relationships.





<https://github.com/aspnet/Mvc>

Demo

Code Map for Face API

VS2017 Enterprise Features

Live Unit Testing & Intellitest

Live Unit Testing

"The Gamification of Test Driven Development"

```
✓ public bool IsHackfresse(int face1X, int face1Y, int face1Width, int face1Height,  
✓ int face2X, int face2Y, int face2Width, int face2Height,  
✓ int sizeThresholdFactor)  
{  
✓ return Math.Abs(face1Width - face2Width) <= face1Width * sizeThresholdFactor &&  
✓ Math.Abs(face1Height - face2Height) <= face1Height * sizeThresholdFactor;  
}
```



Live Unit Testing

Requirements:

- Enterprise Edition
- C# or VB
- Supported Framework & Unit Test Adapter
 - xUnit (> 2.0)
 - NUnit (> 3.5.0)
 - MSTest (> 1.0.5 preview)

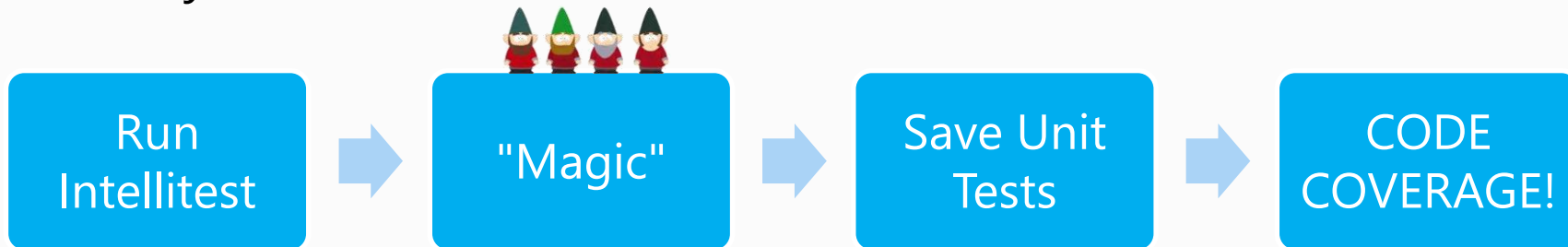


Intellitest



"Test More with Less Effort"

- aka "Smart Unit Tests"
- aka "Pex" (<http://www.pexforfun.com/>)
- Easy workflow:



Demo

Live Unit Testing & Intellitest

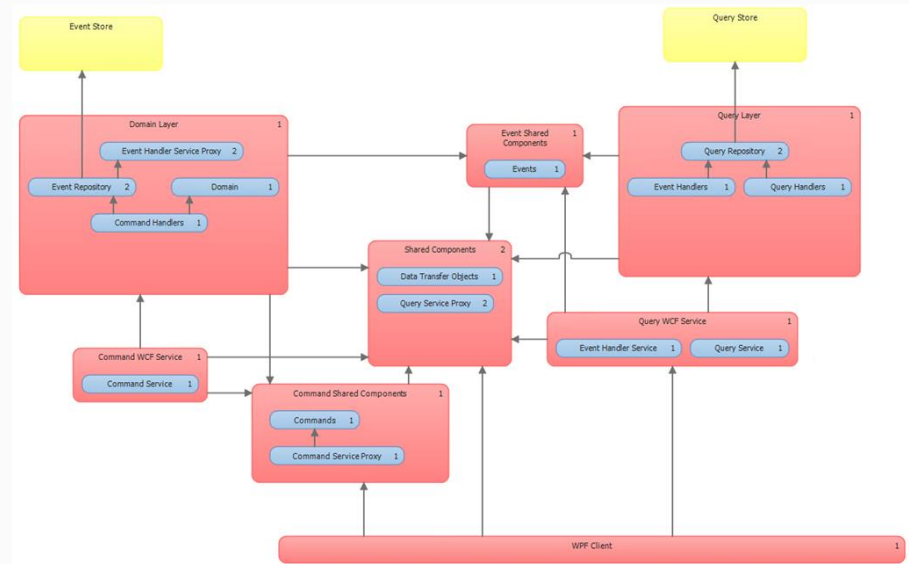
VS2017 Enterprise Features

Dependency Diagrams

Dependency Diagrams

"Validate your Code against your Architecture"

- aka "Layer Diagrams"
- In VS2017 powered by Roslyn.



Source: <http://geekswithblogs.net/Optikal/archive/2012/12/30/151680.aspx>

Demo

Dependency Diagrams

Agenda

- VS2017 Productivity Tricks
 - Quick-Launch, Map Mode, Clipboard Cycle, Paste JSON
 - Navigate-To, Find all References
- Code Map
- Live Unit Testing & Intellitest
- Dependency Validation.

Agenda



Global Azure Bootcamp 2017

2017

Global **Azure**
BOOTCAMP

22.04.2017 Microsoft, Wallisellen

www.azurezurichusergroup.com

<https://twitter.com/azurezurich>

.NET Day Switzerland 2017



#dotnetday17



23. MAI 2017



MICROSOFT, WALLISELLEN

.NETDAY

Switzerland

www.dotnetday.ch

https://twitter.com/dotnetday_ch

Vielen Dank!

Manuel Meyer, Trivadis AG

@manumeyer1

www.manuelmeyer.net

www.azurezurichusergroup.com

www.dotnetday.ch

trivadis
makes **IT** easier. ■ ■ ■



© 2017 Microsoft Corporation. All rights reserved. Microsoft, Windows, Windows Vista and other product names are or may be registered trademarks and/or trademarks in the U.S. and/or other countries.

The information herein is for informational purposes only and represents the current view of Microsoft Corporation as of the date of this presentation. Because Microsoft must respond to changing market conditions, it should not be interpreted to be a commitment on the part of Microsoft, and Microsoft cannot guarantee the accuracy of any information provided after the date of this presentation. MICROSOFT MAKES NO WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AS TO THE INFORMATION IN THIS PRESENTATION.