

A black and white photograph of a large audience seated in rows, facing a stage or presentation area. The room has a modern design with recessed lighting in the ceiling.

Open Source for the win!

Nicolas Milcoff

COO / Mobile Lead Developer

DGenix



.NET Conf UY v2017

23 al 27 de Octubre 2017



DIAMOND



GOLD



GOLD



GOLD



GOLD



TATA CONSULTANCY SERVICES

GOLD



GOLD



GOLD



GOLD



STARTER



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OPEN SOURCE



OPEN SOURCE



About myself

- Started my journey in Open Source 2 years ago
- Contributed to 20+ projects in GitHub
- Host a few open source libraries
- MvvmCross Maintainer



Agenda

- Current state of Open Source in .NET
- Why should I contribute to open source projects?
- Getting started as contributor / project owner
- Being a maintainer
- Best moments!



Open Source in .NET

- .NET Foundation supports 500+ repositories
- Microsoft projects are now community driven
- Microsoft top #1 on GitHub stats for 2016



Microsoft joins the Linux Foundation



Microsoft joins the Open Source Initiative

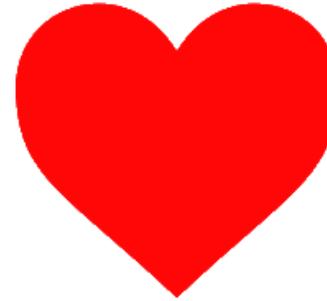
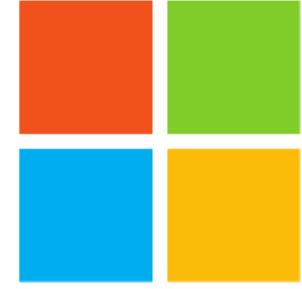
Microsoft joins the Open Source Initiative
by Jeff McAffer
September 26, 2017
Standards



We are pleased to announce that [Microsoft has joined the Open Source Initiative \(OSI\)](#) as a [Premium sponsor](#). OSI is a global non-profit dedicated to promoting and protecting open source software through education, collaboration, and infrastructure.

Open source advances come from its community and Microsoft continues to increase its involvement and contributions. Microsoft participates in thousands of open source projects and has thousands of contributors to public open source organizations.





**OPEN
SOURCE**



BUT...



Where are the rest of us?



Aaronontheweb
Software. Startups. Outer Space.

Home Consulting About Talks Open Source

The Profound Weakness of the .NET OSS Ecosystem

July 3, 2014

I'm in the process of writing up a lengthy set of blog posts for [MarkedUp](#) about the work that went into developing [MarkedUp In-app Marketing](#), our real-time marketing automation and messaging solution for Windows desktop applications (and eventually WP8, WinRT, iOS, Android, Web, etc...)

During the course of bringing this product to market, I personally made the following OSS contributions:

- Adding full CQL3 collections support to [FluentCassandra](#), a project which Nick Berardi created and I am now maintaining;
- Inventing [Helios](#), a high-performance TCP/UDP socket server middleware developed in the style of Java's wildly successful Netty project;
- Co-creating [Akka.NET](#), a C# port scala's Akka project for distributed actor systems – I was largely responsible for writing the remoting layer, finite state machines, actor system extensions, and lots of other additions here and there;



Community weakness

- Almost every major OSS project in .NET is a port from the Java world.
- Every company using .NET uses OSS
- Few developers contribute

**“Our own laziness, not Microsoft,
is to blame”**





You can make a big
impact
on the community!

Why should I contribute?

- Each time you install a NuGet package, you are saving yourself (and your company) time!
- Open Source code is not free. Somebody has already paid for it!
- Projects are **always** in need of new contributors and members





Jon Kuperman

@jkup

Stop treating open source like a product you purchased and start treating it like a team you belong to.

Original (Englisch) übersetzen

18:09 - 18. Sep. 2017

1.090 Retweets **2.292** „Gefällt mir“-Angaben



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Which are the benefits?

- You **challenge** yourself and learn new technologies
- You become *the expert*
- You can build and be part of a **global network**
- You get free **code reviews**
- You can use **tools** that are free for contributors
- You can even drink a beer with your **idols!**



More than everything...



You can write
your own
history!

Contributing is not just about coding

- Found a bug? Report it! (with a repro case 😊)
- Need a feature? Report it!
- Are you good at design? Make a logo / website!
- Do you use it in your app? Blog your experiences!
- Slack channel? Help others!



<https://opensource.guide/>

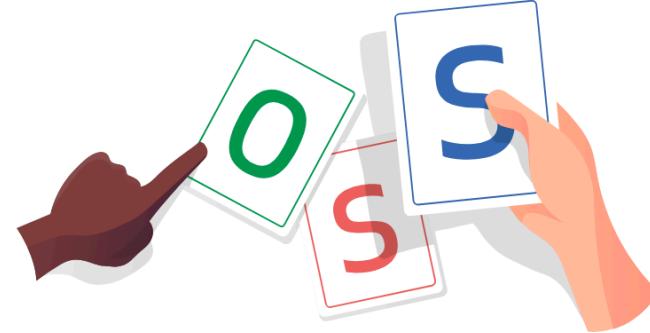
Open Source Guides

Open source software is made by people just like you.
Learn how to launch and grow your project.



How to Contribute to Open Source

Want to contribute to open source? A guide to making open



Starting an Open Source Project

Learn more about the world of open source and get ready to



Getting started as a contributor

- Look for something that excites you
- Use technologies that are familiar to you
- Start small: One commit at a time
- Make sure the project is alive and active
- Be aware of the license



Looking for ideas?

The screenshot shows a GitHub search interface with the following details:

- Header:** Issues (147) is selected in the navigation bar.
- Search Bar:** The search query is "is:open is:issue label:up-for-grabs".
- Filters:** Clear current search query, filters, and sorts.
- Issue Count:** 66 Open, 56 Closed.
- Author:** Author dropdown.
- Labels:** Labels dropdown, showing "up-for-grabs" is selected.
- Projects:** Projects dropdown.
- Milestones:** Milestones dropdown.
- Assignee:** Assignee dropdown.
- Sort:** Sort dropdown.
- Issues List:** A list of 66 open issues, with the first few visible:
 - Feature request: Combine M...** #2243 opened 6 days ago by kevingoodwin
 - PictureChooser doesn't auto...** up-for-grabs #2236 opened 10 days ago by ratka6
 - OnStart is not called for a X...** #2223 opened 14 days ago by MichaelE
 - Ask for permissions Feature re...** #2157 opened on 2 Sep by Cheesebard
 - Change Event subscriptions**
- Filter by label:** A modal window titled "Filter by label" with "up-for-grabs" selected. It also lists other labels: Unlabeled, up-for-grabs (selected), Android, AndroidSupport, and Bug.



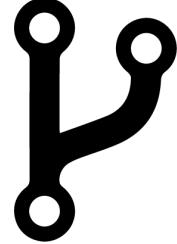
Grabbing issues

- Issue != Bug
- When picking one, leave a comment asking for updates / news around the topic
- If there isn't an issue, create one yourself

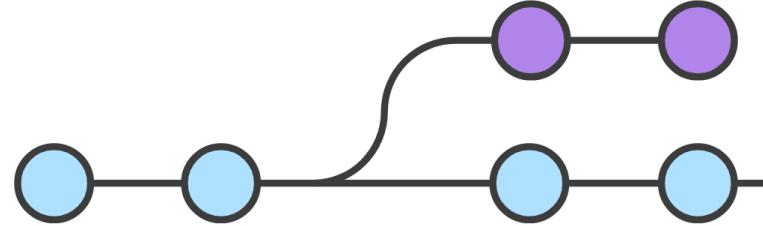
**Let other people know you will work on
something!**



Follow the Git Workflow



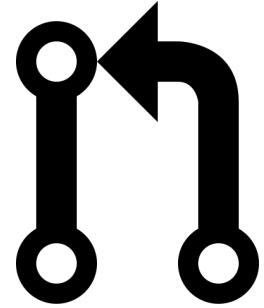
1. Fork



2. Branch



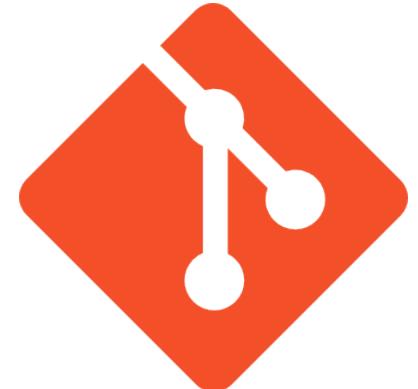
3. Work



4. Pull
request

Follow the Git Workflow

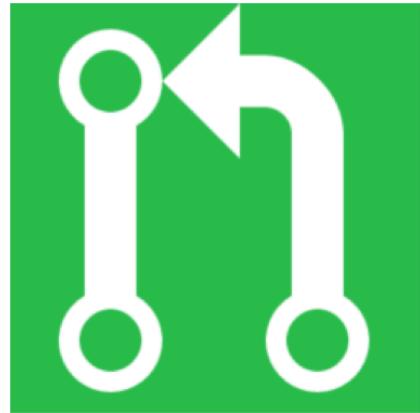
- Ask for guidelines and coding standards
- Don't make too many commits
- Don't use too few commits
- Be prepared to be rejected!



Keep on trying!



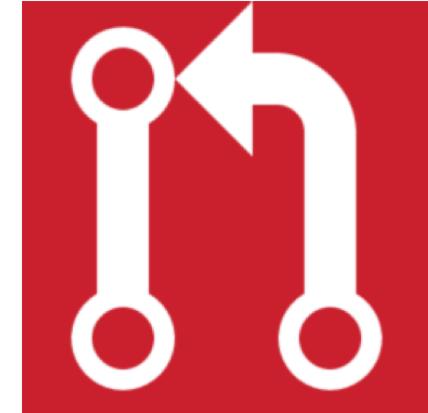
Ben Adams contributions to Kestrel HTTP Server



3



109



115

Getting started as a project owner

- v1 should be embarrassing to you
- Take SemVer serious: Avoid breaking your users' code as much as possible
- Docs... Good docs!
- Be open to other contributors



Becoming a maintainer

- When you get write access to your favorite repository...

Martijn van Dijk added you to the MvvmCross team Core

MvvmCross <noreply@github.com>
para mí ▾

inglés ▾ > español ▾ Traducir mensaje Desactivar para: inglés ×



You've been added to the Core team for the MvvmCross organization. Core has 7 members and gives **pull** access to 9 MvvmCross repositories.

[View Core: https://github.com/orgs/MvvmCross/teams/core](https://github.com/orgs/MvvmCross/teams/core)

Read more about team permissions here: <https://help.github.com/articles/what-are-the-different-access-permissions>



With great power comes great responsibility...



Being the maintainer

- Start reviewing and merging Pull Requests
- Work on administrative stuff
- Have a voice in the product's design / roadmap
- You have to write the release notes / blog posts



Being the maintainer

- Get in touch with companies using the project
- You will **break** the codebase
- You will **fix** the codebase
- Pair code with other contributors
- Meet the gurus!



The bad part of being a maintainer

- You have to write documentation
- People have **huge** expectations
- It is difficult not to get overwhelmed
- You have to deal with “special” users



You realize how easier life would be if there were
more contributors



Leveraging your time...

 [fre5h / DoctrineEnumBundle](#)

[Watch](#) 9 [Star](#) 221 [Fork](#) 47

[Code](#) [Issues 12](#) [Pull requests 0](#) [Projects 0](#) [Insights](#)

support SQLite for functional testing purposes #12

 Merged fre5h merged 1 commit into `fre5h:master` from `bendavies:sqlite-support` on 27 Jan 2014

[Conversation 679](#) [Commits 1](#) [Files changed 2](#) [+80 -3](#)

 bendavies commented on 22 Jan 2014

Contributor

fixes #11

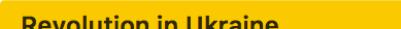
 fre5h commented on 22 Jan 2014

Owner

I will take a look later. Much much later. Because I'm Ukrainian and we have revolution right now.
Sorry

Reviewers
No reviews

Assignees
 fre5h

Labels
 improvement
 Revolution in Ukraine



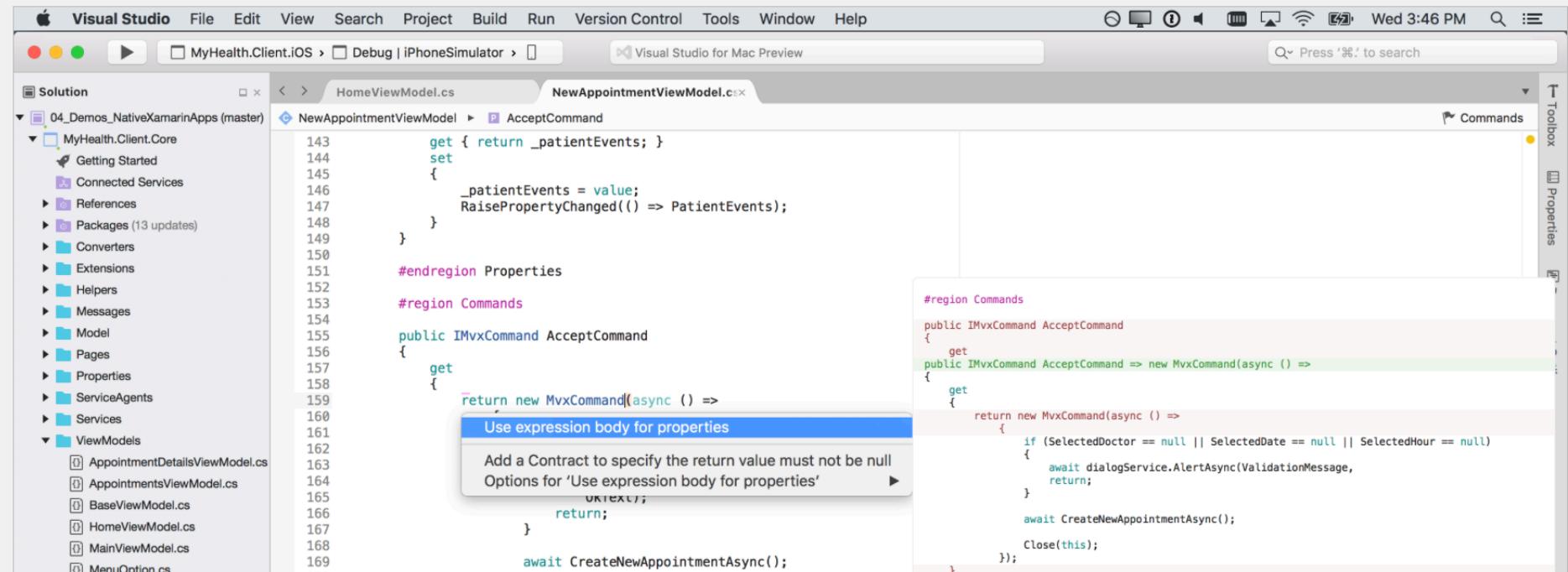
The best moments!

<https://www.visualstudio.com/vs/visual-studio-mac/>

Con diseño nativo para Mac

Visual Studio para Mac lleva al Mac la productividad de desarrollo que le encanta. La experiencia se ha elaborado de manera meticulosa para optimizar el flujo de trabajo de los desarrolladores para Mac.

Colaborar de



A screenshot of the Visual Studio for Mac interface. The window title is "Visual Studio for Mac Preview". The menu bar includes "Visual Studio", "File", "Edit", "View", "Search", "Project", "Build", "Run", "Version Control", "Tools", "Window", and "Help". The status bar shows "Wed 3:46 PM". The main area shows a solution named "MyHealth.Client.iOS" with a file "NewAppointmentViewModel.cs" open. The code editor contains C# code for a Xamarin application. A tooltip is displayed over the code, reading "Use expression body for properties" with the sub-instruction "Add a Contract to specify the return value must not be null". The tooltip also lists "Options for 'Use expression body for properties'" including "OKTEXT!" and "return;". The code itself includes regions for Properties and Commands, and defines an IMvxCommand named AcceptCommand with an asynchronous implementation.

```
143     get { return _patientEvents; }
144     set
145     {
146         _patientEvents = value;
147         RaisePropertyChanged(() => PatientEvents);
148     }
149 #endregion Properties
150 #region Commands
151 public IMvxCommand AcceptCommand
152 {
153     get
154     {
155         return new MvxCommand(async () =>
156             {
157                 await CreateNewAppointmentAsync();
158             });
159     }
160 }
161 #endregion Commands
162 #region Contracts
163 public IMvxCommand AcceptCommand { get; }
164 #endregion Contracts
165
166
167
168
169 }
```

```
#region Commands
public IMvxCommand AcceptCommand
{
    get
    {
        public IMvxCommand AcceptCommand => new MvxCommand(async () =>
        {
            get
            {
                return new MvxCommand(async () =>
                {
                    if (SelectedDoctor == null || SelectedDate == null || SelectedHour == null)
                    {
                        await dialogService.AlertAsync(ValidationMessage,
                        return;
                    }

                    await CreateNewAppointmentAsync();
                    Close(this);
                });
            }
        });
    }
}
```



Getting invited to events

The image features a collage of six circular portraits of men, each with a name label below it. The names are Mike James, Laurent Bugnion, Tomasz Cielecki, Nico Milihoff, Martijn van Dijk, and Marc Bruins. Above the portraits, the text "MvvmCross & Xamarin HackDay" is displayed in large white letters. Below the portraits, the location "Tobacco Theater, Amsterdam" and date "September 2, 2017" are shown in white text.

Mike James Laurent Bugnion Tomasz Cielecki Nico Milihoff Martijn van Dijk Marc Bruins

Tobacco Theater, Amsterdam • September 2, 2017

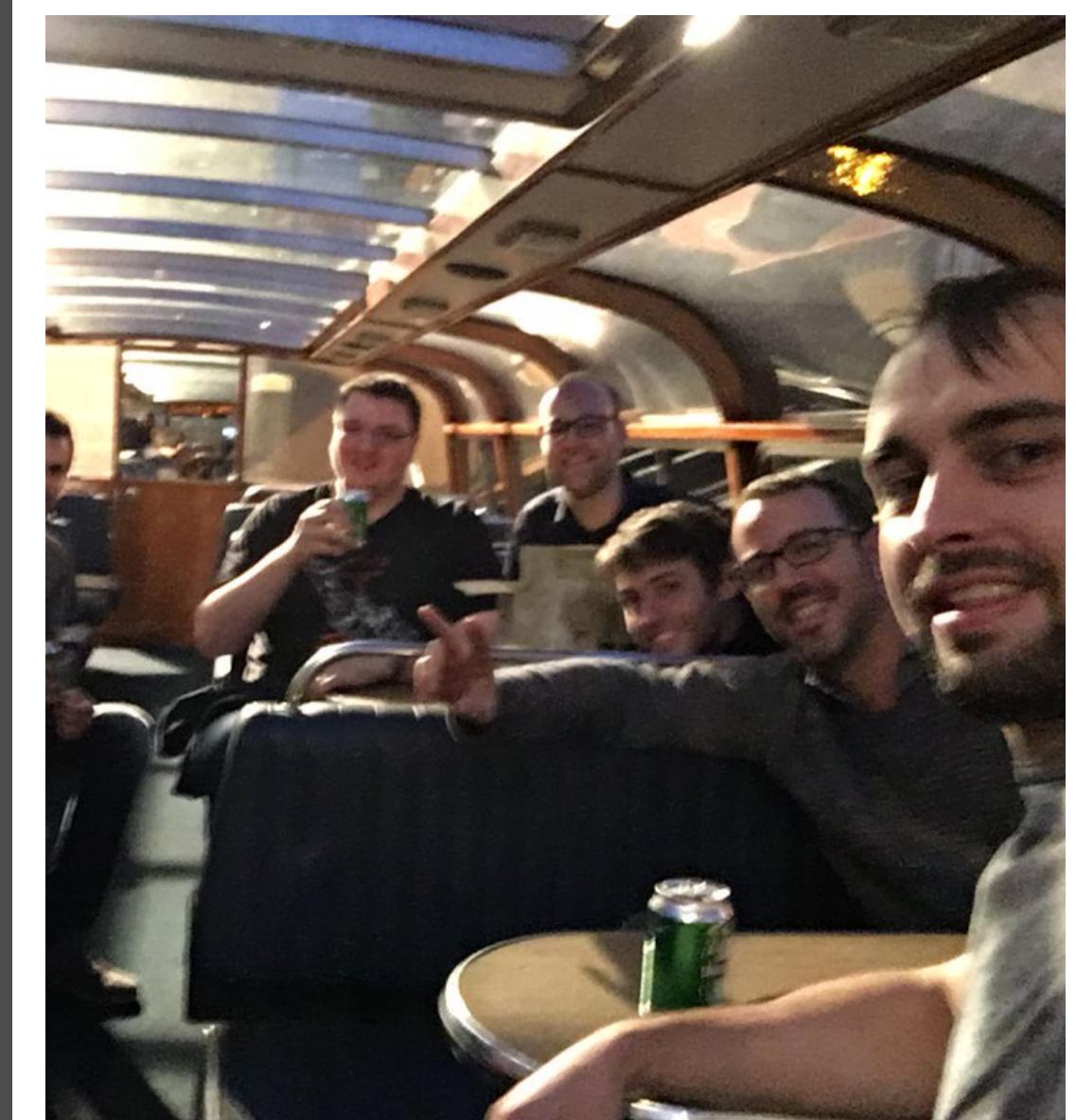




[View Presenters in
MvvmCross](#)

Nicolas Milcoff
Mobile Lead at DGenix

MvvmCross
Xamarin HackDay
2nd September Amsterdam



Summary

- Plan minimum: Start reporting bugs
- You can have a real impact on the community
- While contributing you build a contacts network
- You can sky rocket your experience and knowledge!
- You are not getting paid for it (directly)



Thank you 😊

Nicolas Milcoff

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🐦 [@nmilcoff](https://twitter.com/nmilcoff)

🌐 <http://nmilcoff.com>



DEMO!

