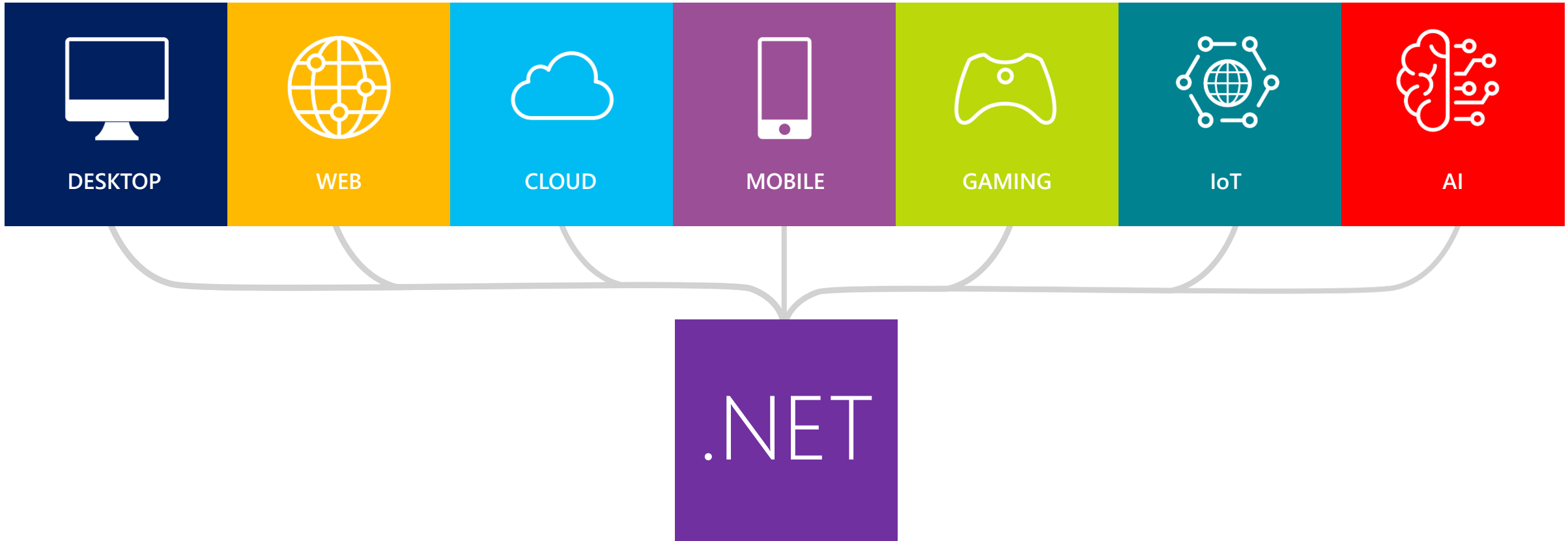




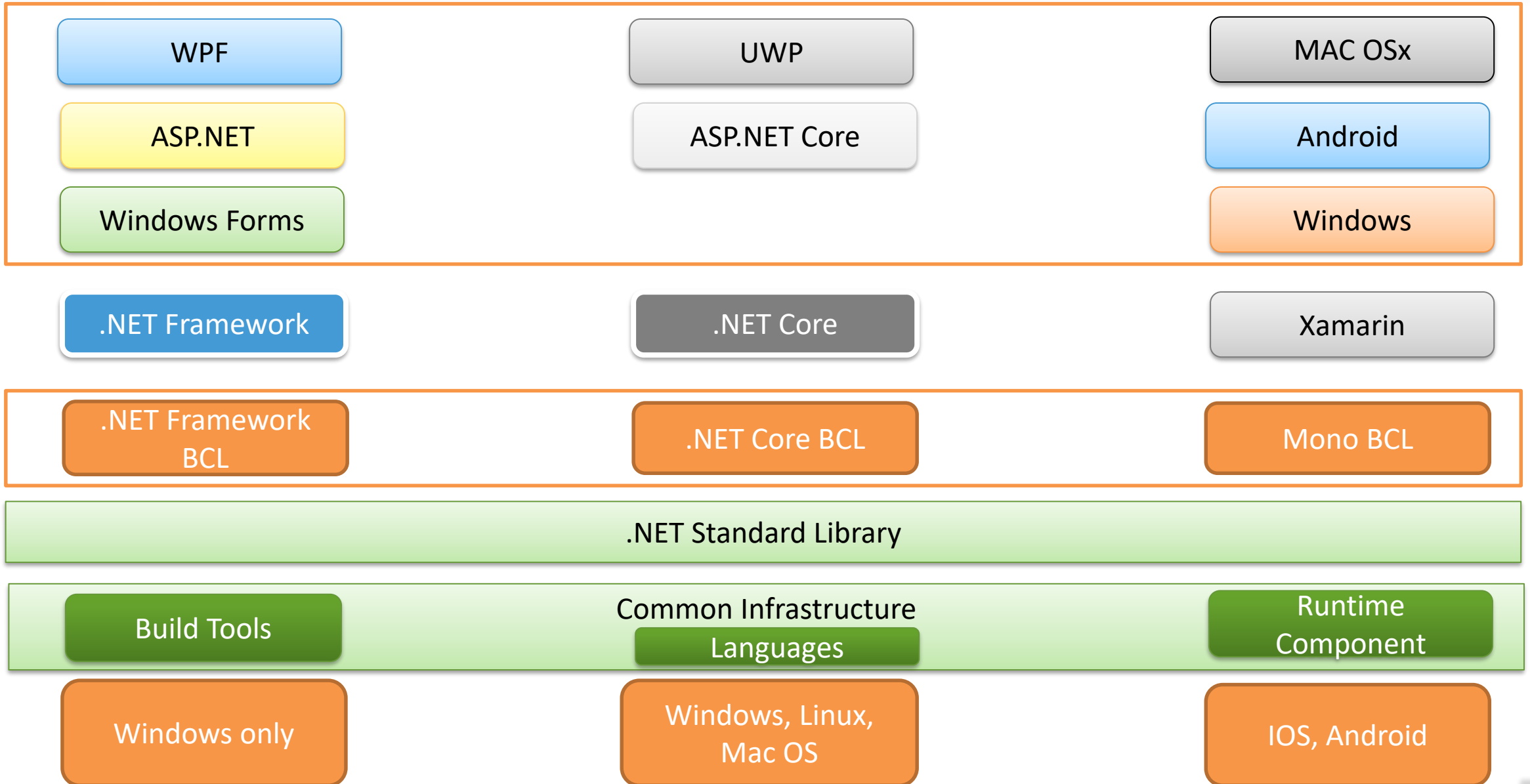
.NET Core

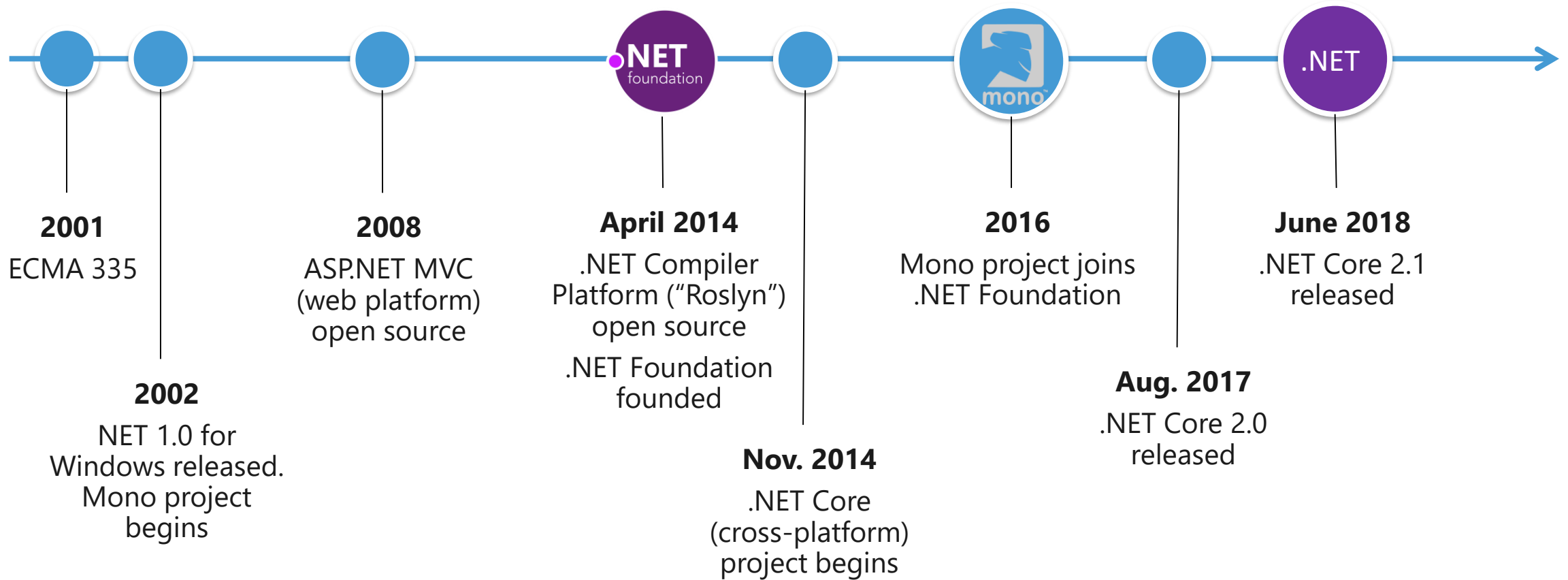


- Understanding the .NET Ecosystem
- Comparison of runtime .NET Core vs. .NET framework vs. Xamarin
- .NET Standard specification
- .NET Core journey
- .NET Core App Demo
- Different version of .NET Core
- Asp.Net (.NET framework) vs Asp.Net Core



- Cross platform deployment
- Open source
- Give customer choice
 - Application local
 - Side by side installations
- Innovate fast and ship fast





- C# compiler goes “OSS” on CodePlex
- Source Open not Open Source
 - Roslyn team still worked primarily in TFS
 - Only 1/3 of the code base was available
 - Regularly pushed updates to CodePlex
- Results were mixed
 - Did receive a number of PRs
 - No sustained contribution

- This is where our customers were
- Embraced living on GitHub
 - No more working in closed and pushing to open
 - All development done on GitHub
 - Work how you want your contributors to work
- Learn the Github way
 - How to compose a product
 - Developer work flow
 - How to ship/service a product



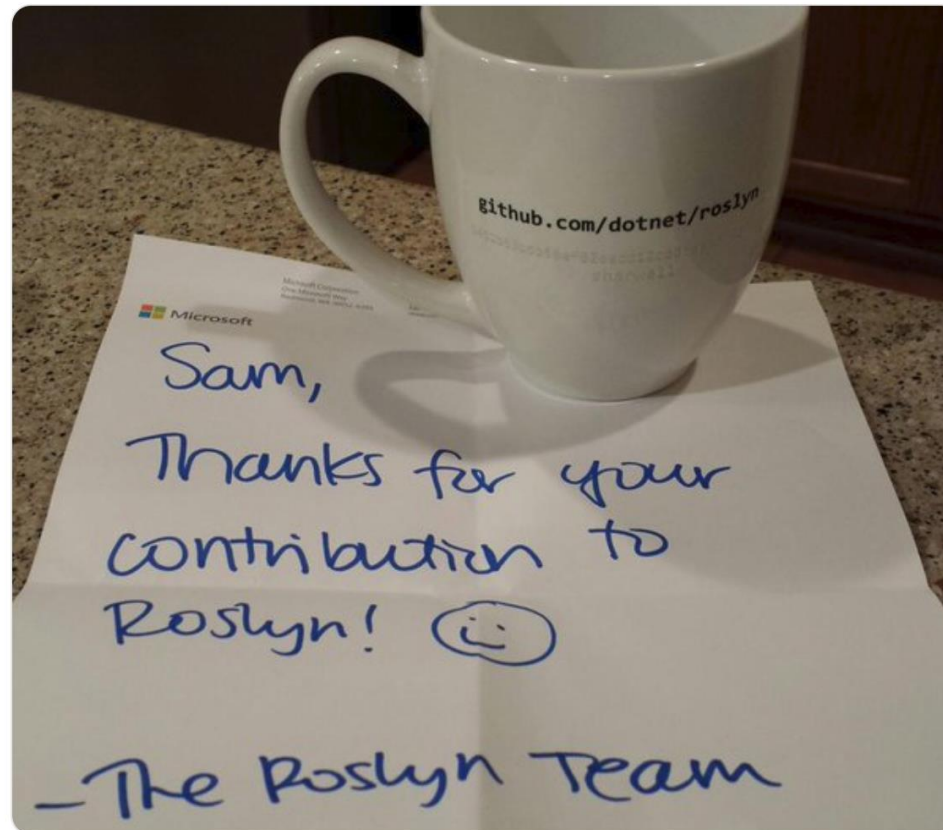
Sam Harwell

@samharwell

Following

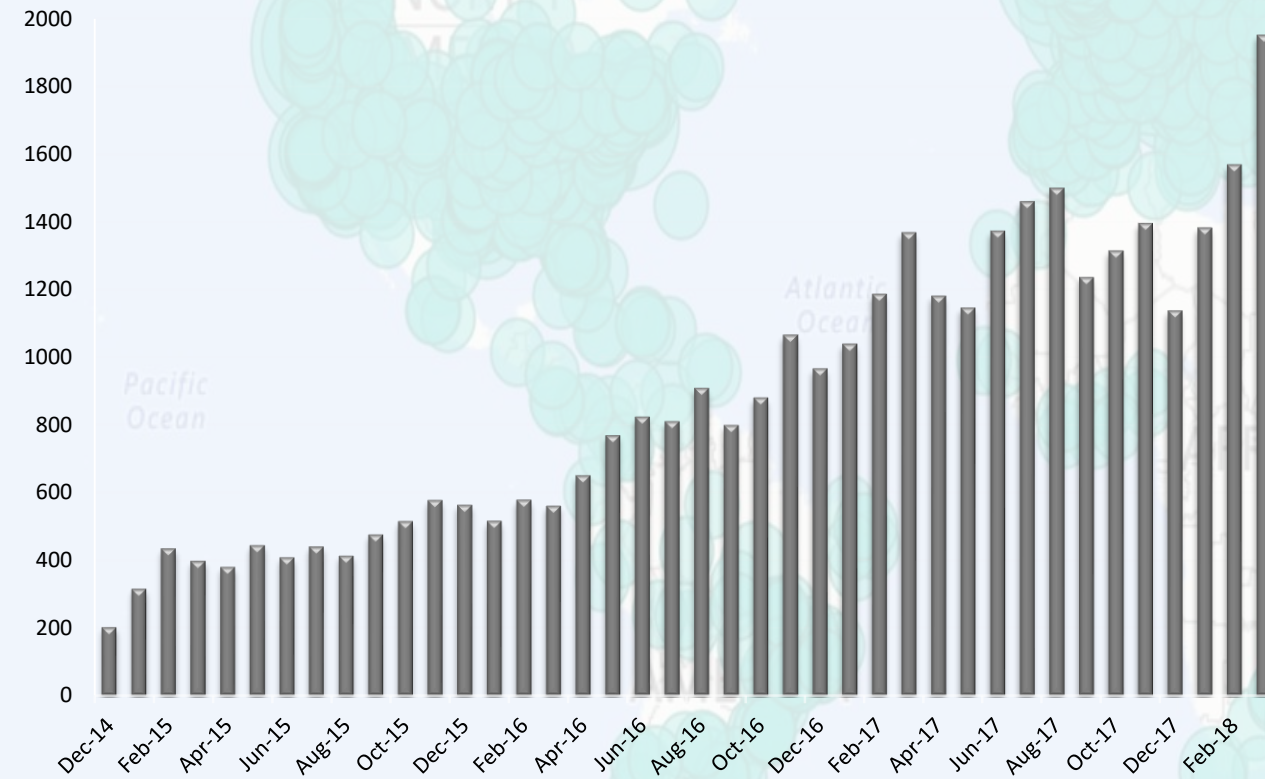


I just got home and saw the other side of the [#Roslyn](#) mug... I'm speechless. :-D



.NET Open Source Success

COMMUNITY ACCEPTED PULL REQUESTS

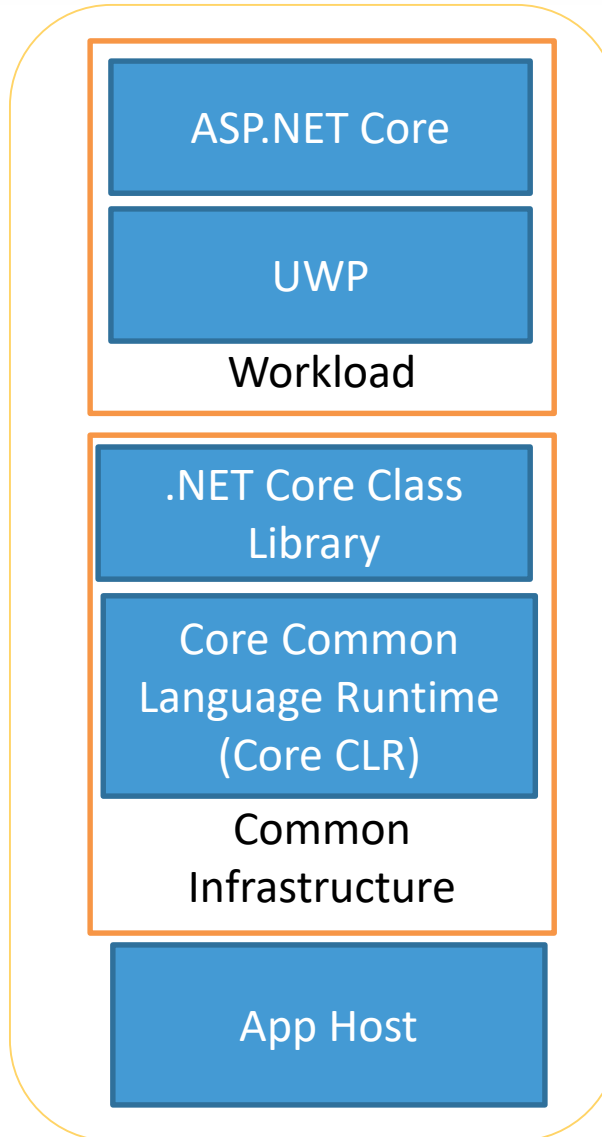


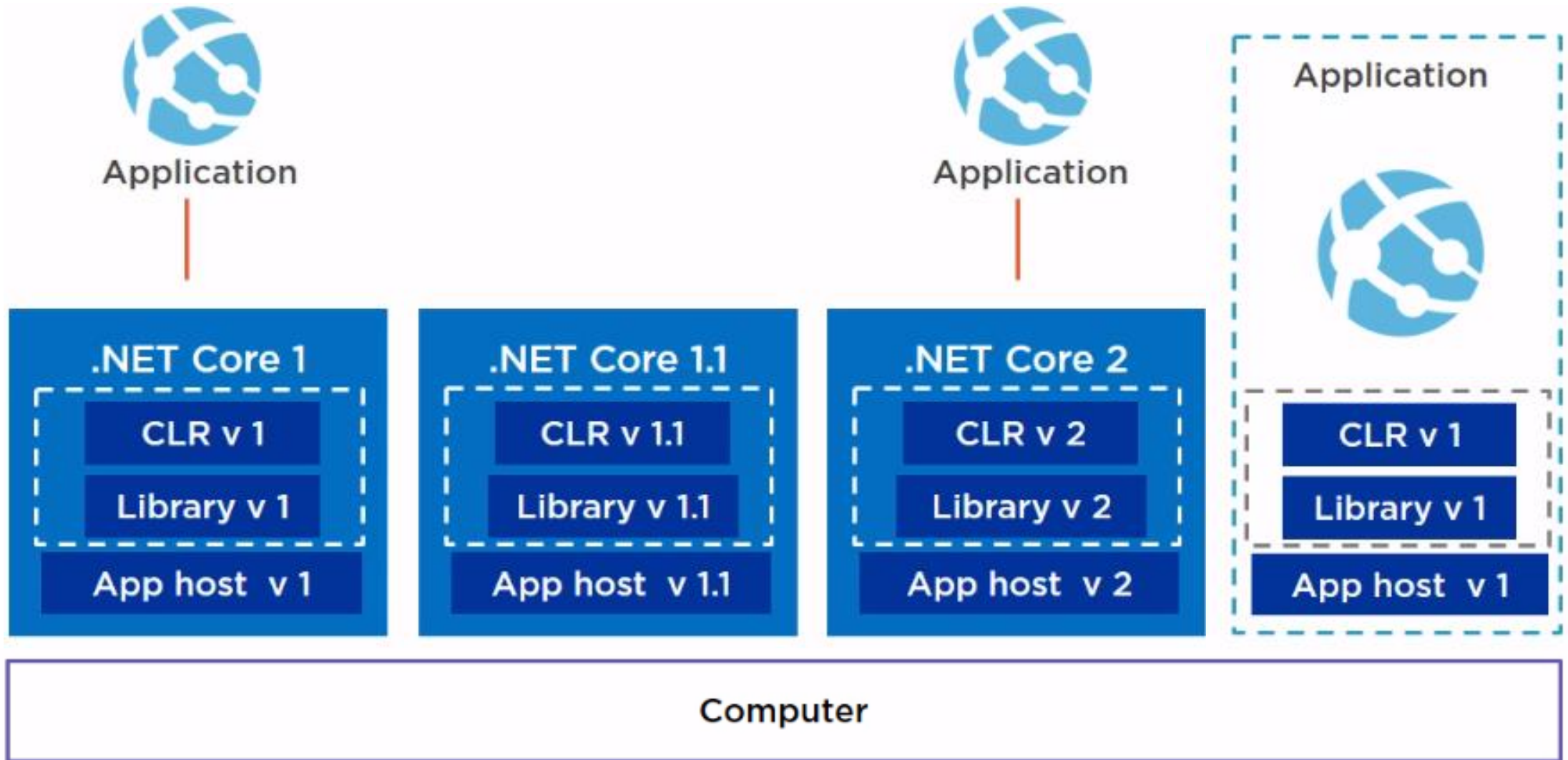
"Samsung is embracing .NET because it is a completely open source project." — Samsung

".NET is open source; that allows us to contribute back to it if we have any performance issues which Microsoft review and together we make a better product." — Illyriad Games

20,000+ Community Contributions from 3700+ Companies outside Microsoft

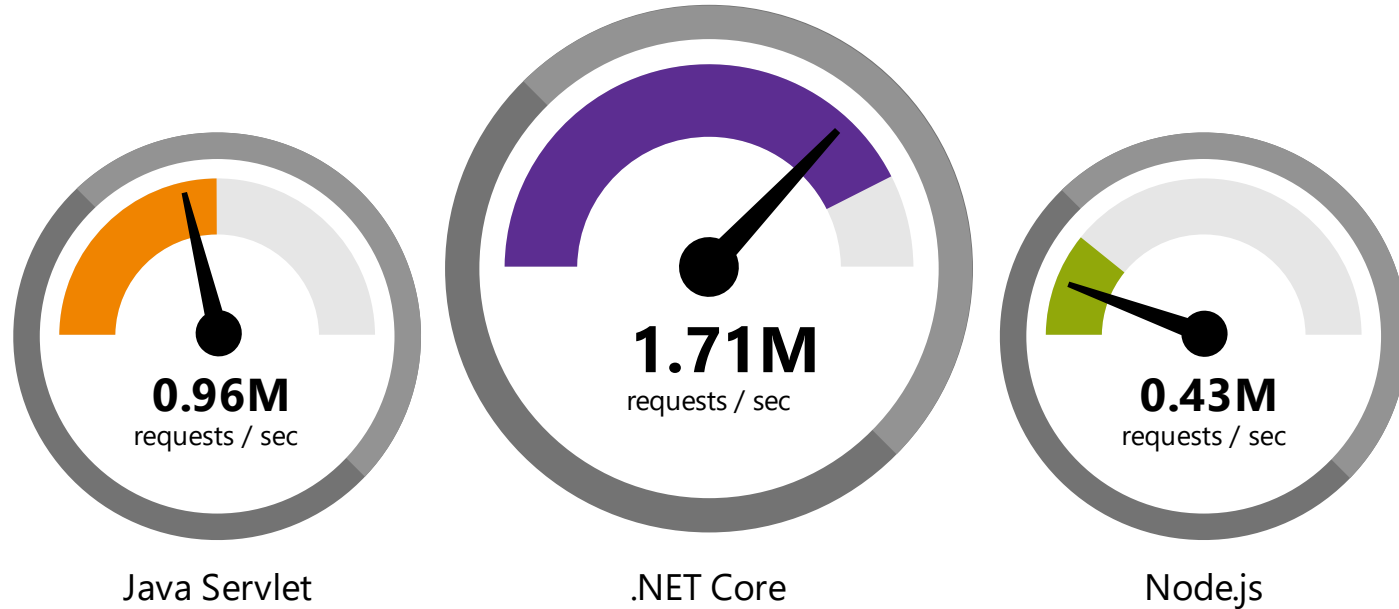
- Released in 2016
- Deliver a cross platform runtime: Windows, Linux and OSX
- Slim down our runtime/framework
- Flexible deployment
- Open source
 - <https://github.com/dotnet/core>





- Only new code can target 1.X
 - Trimmed down the API set too far
 - Porting existing applications extremely difficult
 - netstandard insufficient for writing portable applications
- We went too far away from existing customers
- .NET Standard 1.X not ideal for portable applications

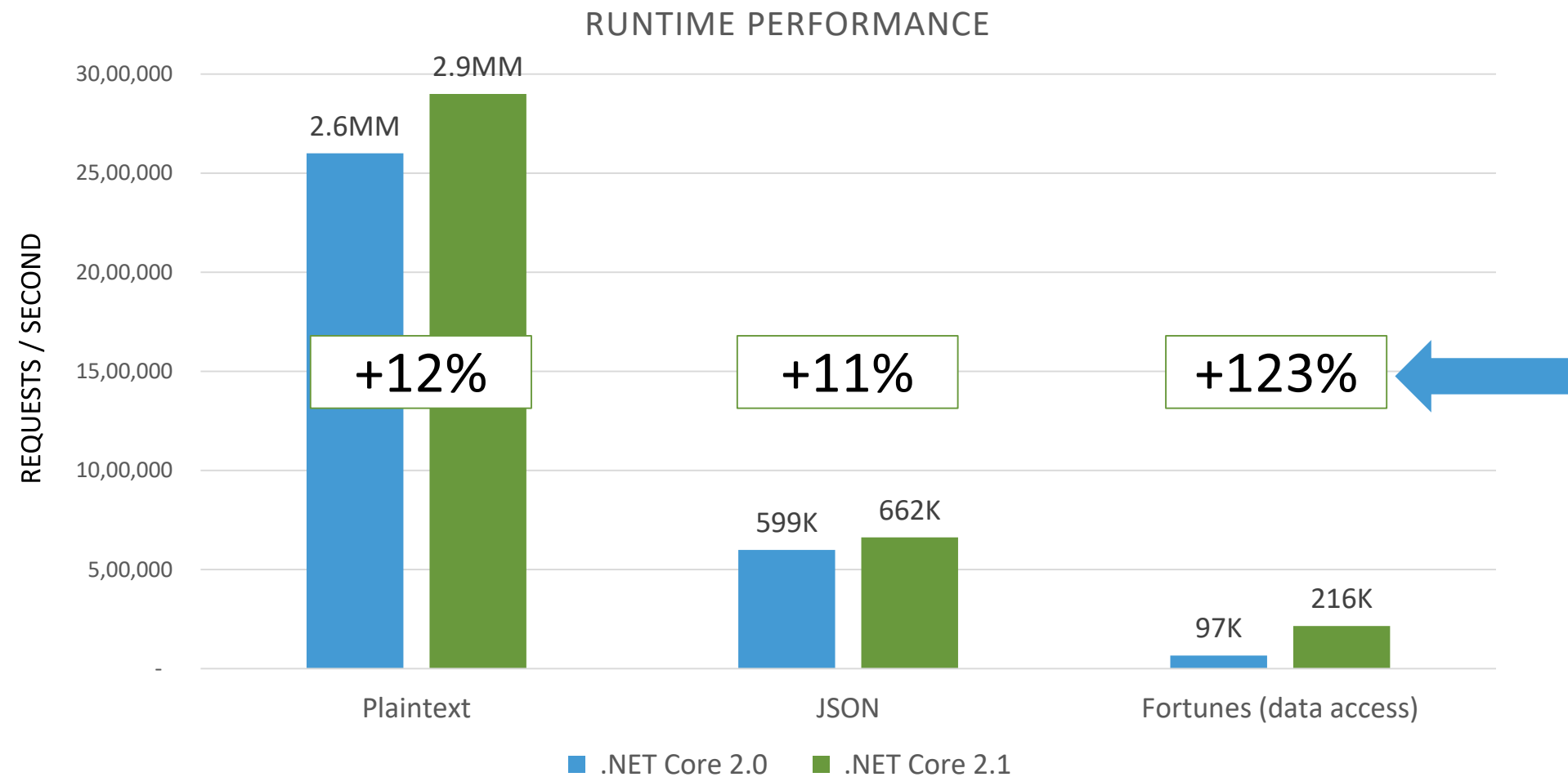
- Performance
- Expand the API set
- Developer tooling experience



Data sourced from official tests available at [TechEmpower Round 14](#).

“Using the same-size server, we were able to go from 1,000 requests per second per node with Node.js to 20,000 requests per second with .NET Core.”
— Raygun

<https://www.microsoft.com/net/customers>



Data sourced from tests in our labs on same hardware as TechEmpower

- .NET Standard 2.0
 - Brought back ~20,000 APIs
 - Supported on all the major .NET Runtimes
- . Windows Compatibility Pack
 - Brings back additional ~20,000 APIs
 - Windows only and cross platform
- NET Framework Compatibility mode
 - Target .NET Framework libraries on .NET Core

- Desktop workloads
 - WPF
 - WinForms
- Runtime Innovation
 - Performance
 - Evolve language + runtime together

Mature runtime and framework

Cross platform

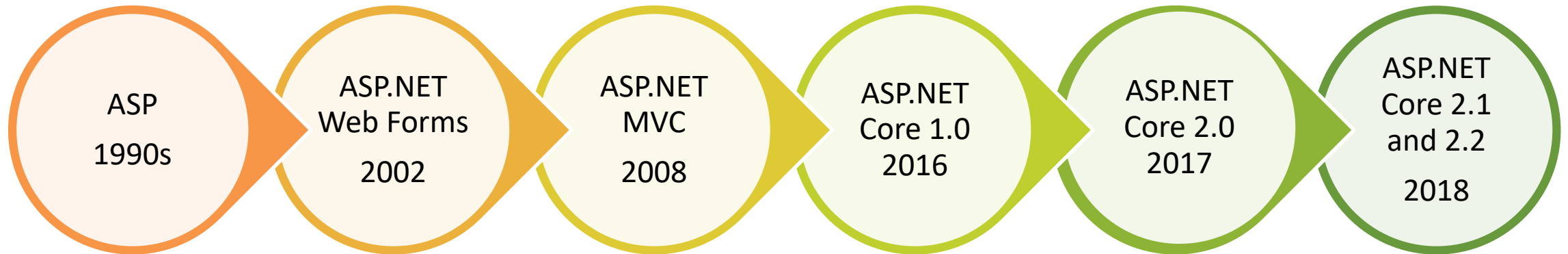
Open source

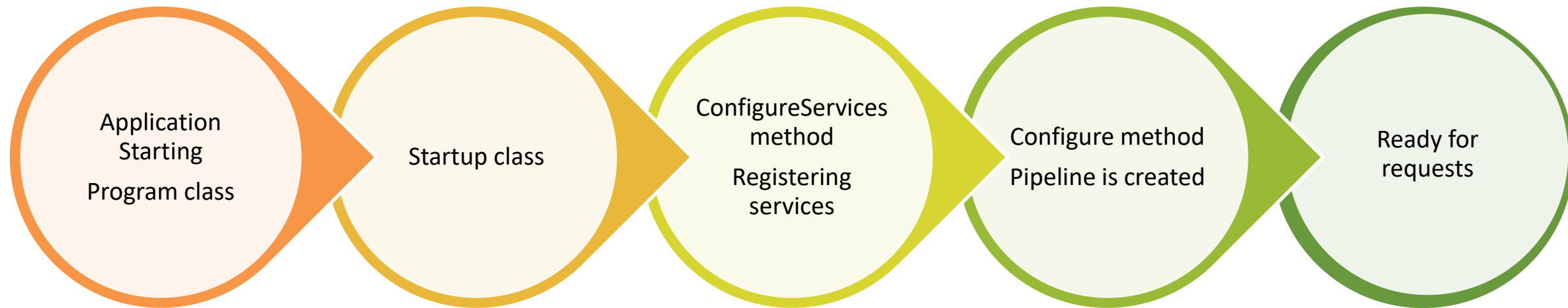
Customer choices

- AppLocal vs side-by-side
- Configurable
- Customizable

Fast moving

It is the future .NET





CHALLENGES

- MVC only
- C# only
- VB support started from 2.x
- New API
- New hosting model
- No IIS-centrism
- New .NET FX

OPPORTUNITIES

- X-platform
- Improved API
- Same MVC paradigm

- Tight coupling between ASP.NET and IIS
 - Presented as a big win only a few years ago
- Platform dependence
 - Windows only
- System.Web is legacy code
 - Devised back in 1997

- Configuration, startup, pipeline
 - Free IoC though 😊
 - Full rewrite of HTTP modules (including tools)
- New ways of doing old things
 - Core authentication (except Identity)
 - Embedded resources
 - Project management
- Development experience
 - Test, build, deploy, manage dependencies

- No support for Web Forms
- Migrating code is overall doable
- Switching to ASP.NET Core mindset is easy
 - Aside a few new APIs to learn, it's all the same
 - Plus minor features in Razor



CLIENT VALUE CREATION

Understanding and delivering what **drives the value** for our client partners and enable them to become high performance businesses



GROW TOGETHER

Shared commitment to **openness, collaboration** and **empathy** provides foundation for personal and professional growth.



DELIVER EXCELLENCE

Holding **Accountability** to work as a team to deliver **outstanding quality of work** to our clients, shareholders and colleagues.



INNOVATE

Challenge conventional wisdom, **take risks** and speak out for continuous innovation



Thank You

Infogain Corporation, HQ

485 Alberto Way Los Gatos,
CA 95032 USA
Phone: 408-355-6000
Fax: 408-355-7000

