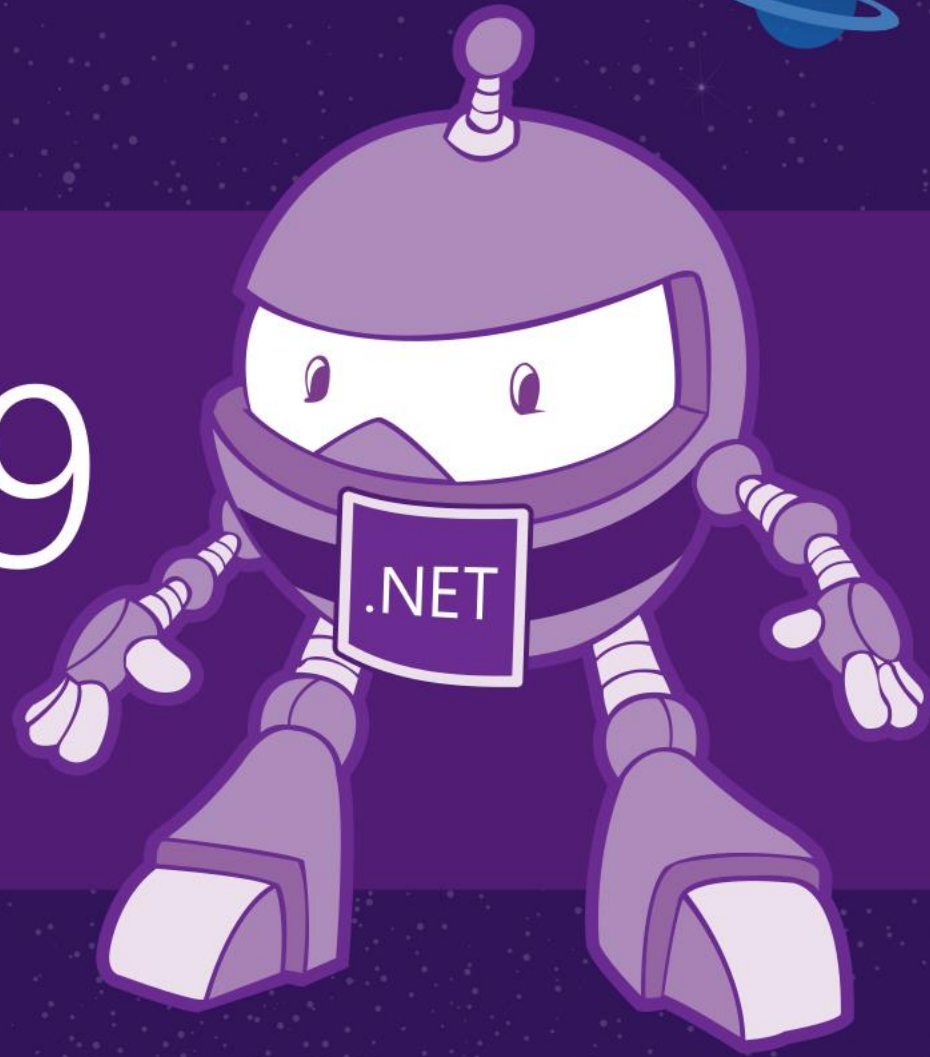# .NET Conf 2019
Discover the world of .NET
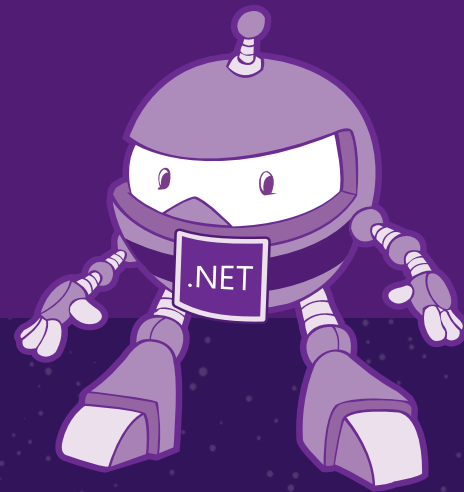
dotnet new

.NET

www.dotnetconf.net

ASP.NET Core 3.0: Best Practices

Julio César Velarde
@cevegaju

About

- Microsoft MCT for Developer Technologies
- SME at Belatrix Software Factory a Globant Company
- Developer since 11 years and a passionate od Microsoft Open Source technologies.
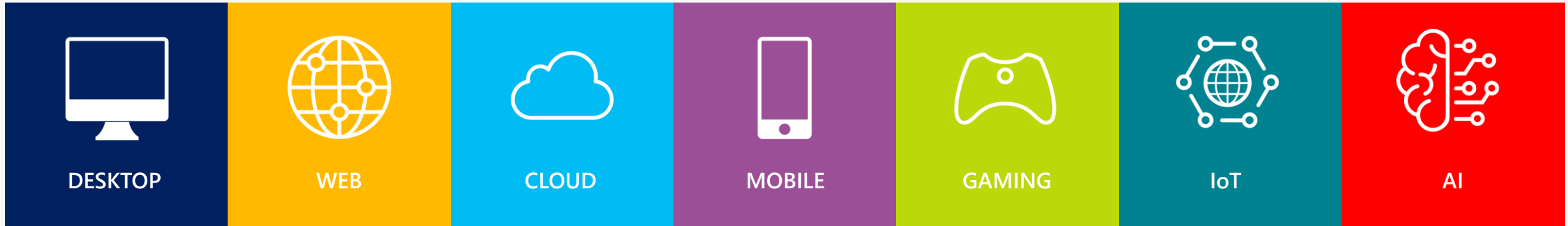
Agenda

- .Net Core Future
- ASP NET Core Best Practices
  - Separation of Concerns
  - Efficient Managing of Projects, Packages and Dependencies
  - Code Instrumentation
  - Implementing and using Health Checks
  - Resilience Strategies

- Source Code here:
  - https://github.com/juvega/dotnet2019-aspnet-core-best-practices

NET Core: Future

Your platform for building **anything**

DESKTOP	WEB	CLOUD	MOBILE	GAMING	IoT	AI

.NET

Visual Studio · Visual Studio for Mac · Visual Studio Code · Command Line · **Your** editor

.NET
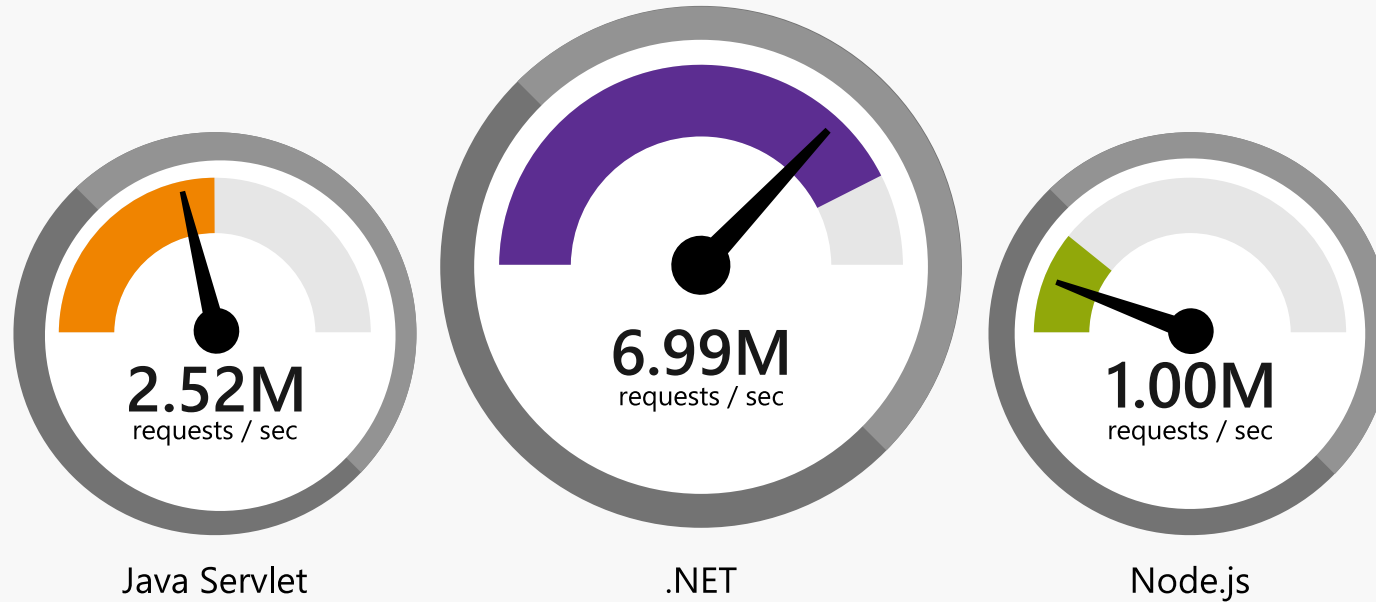## Open Source & Cross-Platform

750K

.NET Core developers

+1M

New .NET developers
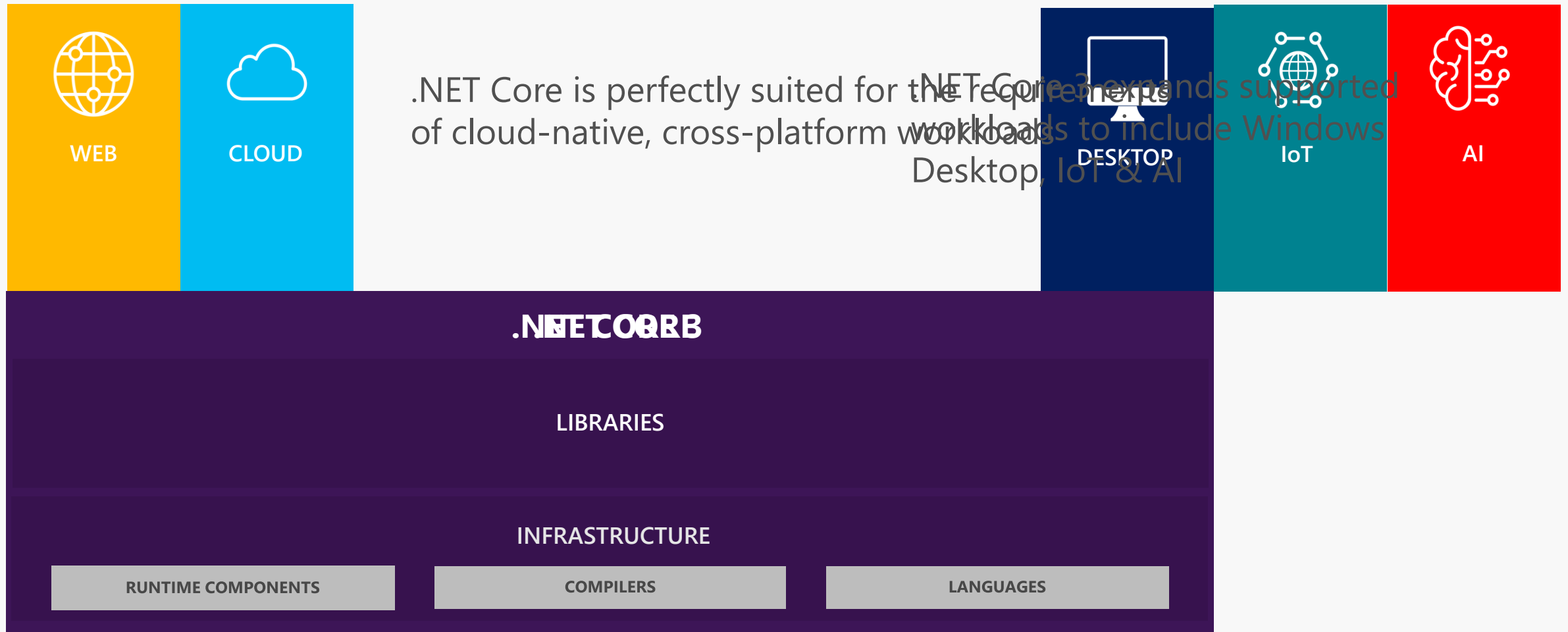in last year

.NET
Faster than any other popular framework

2.52M
requests / sec

Java Servlet

6.99M
requests / sec

.NET

1.00M
requests / sec

Node.js

Data sourced from official tests available at TechEmpower Round 18.

"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."
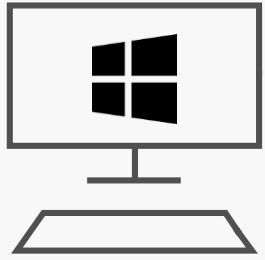— Raygun

www.dot.net/customers

.NET Core 3

WEB

CLOUD

.NET Core is perfectly suited for the requirements of cloud-native, cross-platform workloads

.NET Core 3 expands supported workloads to include Windows Desktop, IoT & AI

DESKTOP

IoT

AI

.NET CORE 3

LIBRARIES

INFRASTRUCTURE

RUNTIME COMPONENTS
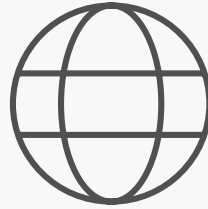
COMPILERS

LANGUAGES

Now Available
.NET Core 3.1.0
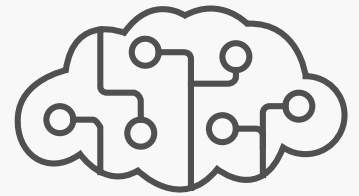# preview 3

www.dot.net

.NET Core 3.0 Themes

Desktop Workloads & UI Interop

Web App Development Productivity & Microservices

Artificial Intelligence & Machine Learning

.NET Schedule

July 2019	Sept 2019	Nov 2019	Nov 2020	Nov 2021	Nov 2022	Nov 2023
.NET Core 3.0 RC	.NET Core 3.0 GA	.NET Core 3.1 LTS	.NET 5.0 GA	.NET 6.0 LTS	.NET 7.0 GA	.NET 8.0 LTS

- .NET Core 3.0 release in September
- .NET Core 3.1 = Long Term Support (LTS)
- .NET 5.0 release in November 2020
- Major releases every year, LTS for even numbered releases
- Predictable schedule, minor releases if needed

Separation of Concerns

Managing of Projects, Packages and Dependencies

Code Instrumentation

Implementing and using Health Checks

Resilience Strategies

.NET

Resilience Strategies

- Retry
- Circuit Breaker
- Timeout
- Bulkhead Isolation
- Fallback

Thank you!

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