

ASP.net vNext

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ALPHA VERSION



!!! NOT FOR PRODUCTIVE USE !!!

The Future of .NET on the Server

- ▶ Totally Modular
- ▶ Seamless transition from on-premises to cloud
- ▶ Faster Development Cycle
- ▶ Choose your Editors and Tools
- ▶ Open Source with Contributions
- ▶ Cross-Platform
- ▶ **Fast !**

Agility

- ▶ Faster Development Cycle
 - ▶ Features are shipped as packages
 - ▶ Framework ships as part of the application
- ▶ More Control
 - ▶ Zero day security bugs patched by Microsoft
 - ▶ Same code runs in development and production
 - ▶ Developer opts into new versions, allowing breaking changes

Fast

- ▶ **Runtime Performance**
 - ▶ Faster startup times
 - ▶ Lower memory / higher density (> 90% reduction)
 - ▶ Modular, opt into just features needed
 - ▶ Use a raw socket, framework or both
- ▶ **Development productivity and low friction**
 - ▶ Edit code and refresh browser
 - ▶ Flexibility of dynamic environment with the power of .NET
 - ▶ Develop with Visual Studio, third party and cloud editors

Cross Platform

- ▶ Runtime
 - ▶ Windows, Mac, Linux
- ▶ Editors
 - ▶ Visual Studio, Text, Cloud editors
 - ▶ No editors (command line)
- ▶ Open Source with Contributions

ASP.NET vNext - Summary

- ▶ MVC, Web API, Web Pages 6, SignalR 3, EF 7

Feature	. NET vNext	.NET vNext (Cloud Optimized)
Cloud Ready	X	X
Modular Design	X	X
Dependency Injection	X	X
Consistent Tracing / Debugging	X	X
Faster Development (No Build Step)	X	X
Open Source	X	X
Full Side by Side (framework deployed inside application)		X
Fast startup, Low memory / High throughput (best of class)		X

Compatibility

- ▶ Web Forms, MVC 5, Web API 2, Web Pages 3, SignalR 2, EF 6
 - ▶ Fully supported on .NET vNext
- ▶ MVC, Web API, Web Pages 6, SignalR 3, EF 7
 - ▶ Breaking changes:
 - ▶ New project system
 - ▶ New configuration system
 - ▶ MVC / Web API / Web Pages merge
 - ▶ No System.Web, new lightweight HttpContext (not System.Net.Http)
- ▶ .NET vNext (Cloud Optimized)
 - ▶ Stripped to ~11 MB



Visual Studio

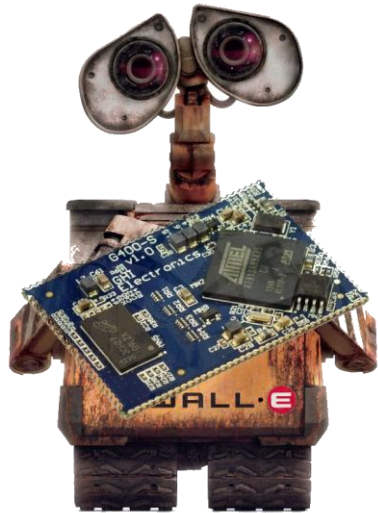
DEMO

Visual Studio 2014 CTP

Robot Visualizer

„Robot“

.net Micro Framework - Gadgeteer



Server

RaspberryPi running Debian Linux



Clients



Robot Visualizer Demo

- ▶ Robot Prototype build with Open Hardware & Software
- ▶ ASP.net vNext Server @ Raspberry Pi
- ▶ Visualize RealTime Data in the Browser
- ▶ Client Windows 8 App

ENDE

- ▶ Links
- ▶ ASP.net vNext : <http://www.asp.net/vnext>
- ▶ ASP.net vNext Source (Github): <https://github.com/aspnet/home>
- ▶ Deutsche Tutorials (erst ab Beta 1) <http://www.ranzmaier.at>