



Frictionless Development Framework

ME

🌟 Write software 🌟

- Trying to learn and improve 👍
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- Blog: <https://siliconheaven.info/> 📄
- GitHub: <https://github.com/Siliconrob> 🐙
- I have worked with ServiceStack in production



What is it?

- Written by Demis Bellot dev@servicestack.net
- [.NET](#) alternative **Web Framework+Ecosystem**
- 32,000,000+ downloads
- [Commercial license](#) with **AGPL FOSS** license exception
- Service clients are **unrestricted**
- All source code is available on [GitHub](#)

Support and Resources

- [Documentation](#): It is **great**
- [Customer Forums](#) - **New** questions/comments restricted to registered customers
- [User Voice](#): Feature Requests
- [StackOverflow](#)
- [Release Notes](#): Comprehensive and detailed

Key points

- **Message** based Architecture based on explicit Data Transfer Objects (**DTO**)
- **Runs** anywhere 
- Works with your choice of **language+framework** 
 - **Polyglots** welcome!
- **Documentation**
- **Mature and supported:** 10+ years of development history
- **Growing** year over year and Demis is **always** on top of the hard code paths first for you

Inspiration

- Be productive
- Value **composition** over **inheritance**
- Work with **Web** standards
- **Consistency**
- Pipelines
- Smalltalk: Message dispatching

Guiding Principles

- **Simplicity:** 1 + 1 = 2
- **Performance** as feature 🚀
- **Lightweight:** code first focus $\frac{d}{dx} \frac{d}{dt}$
- **Testability:** Unit, Integration, Application $\frac{d}{dx} \frac{d}{dt}$
- **Message** based architecture: Coming back to this later 🔄

Current Version

- [v5.6](#) released 8/6/2019
- Prereleases available on [MyGet](#)

Release Notes

<https://docs.servicestack.net/release-notes-history>

Messaging

- Every input request DTO has a **corresponding response DTO**

Request/Response

- Any DTO object -> serialized to Response ContentType
- `HttpResult`, `HttpError`, `CompressedResult` (`IHttpResult`) for Customized HTTP response

Messaging Example



Core Components

- **ServiceStack.Text**: Free from restrictions on use
- **ServiceStack.OrmLite**: **Dapper++**
- **ServiceStack.Redis**
- **ServiceStack.Caching**
- And many, many more are [available](#)

Helpful Tips

- Assemblies are **units of deployment NOT** logical boundaries
- Keep your model assembly small and dependency free
- Message DTOs **should** only contain serializable fields **NOT** behavior
- Extension methods are your **friends**
- Pipelining behavior in a Fluent functional manner is **good**
- Remember that HTTP is underlying

Routing

Explicit

1. Any exact Literal Matches are used first
2. Exact Verb match is preferred over All Verbs
3. The more variables in your route the less weighting it has
4. Routes with wildcard variables have the lowest precedence
5. When Routes have the same weight, the order is determined by the position of the Action in the service or Order of Registration (FIFO)

Thank you

Fort Worth .NET User Group and TekSystems



Presentation