

PxWebApi 2.0

Under the hood

INTERNATIONAL PX-MEETING, 2025-10-08, HELSINKI, <RUNE.JOHANSEN@SSB.NO>

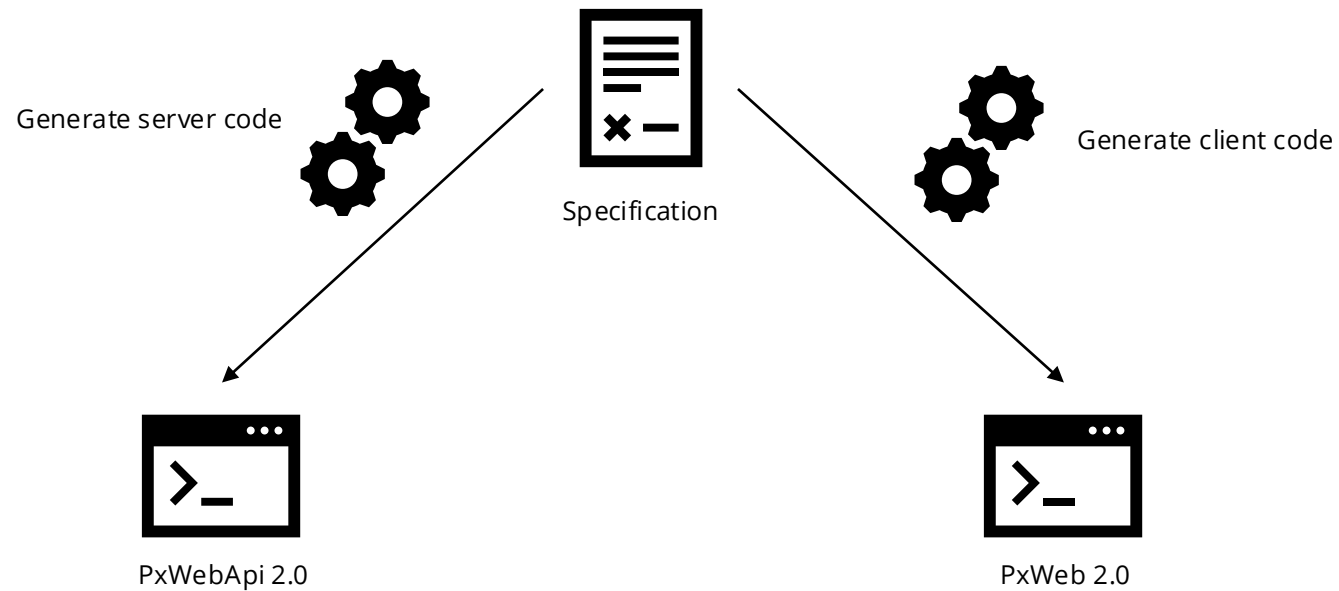


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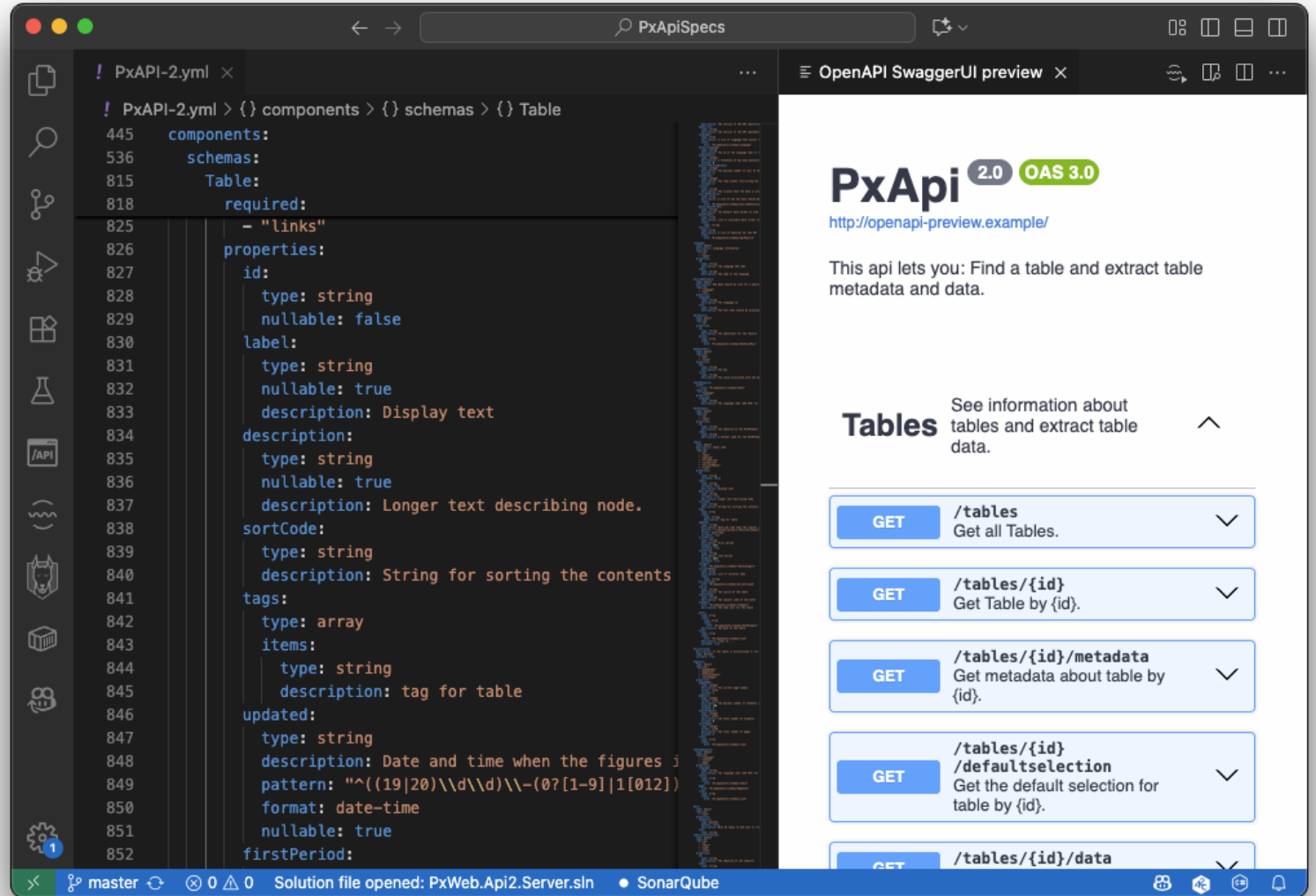
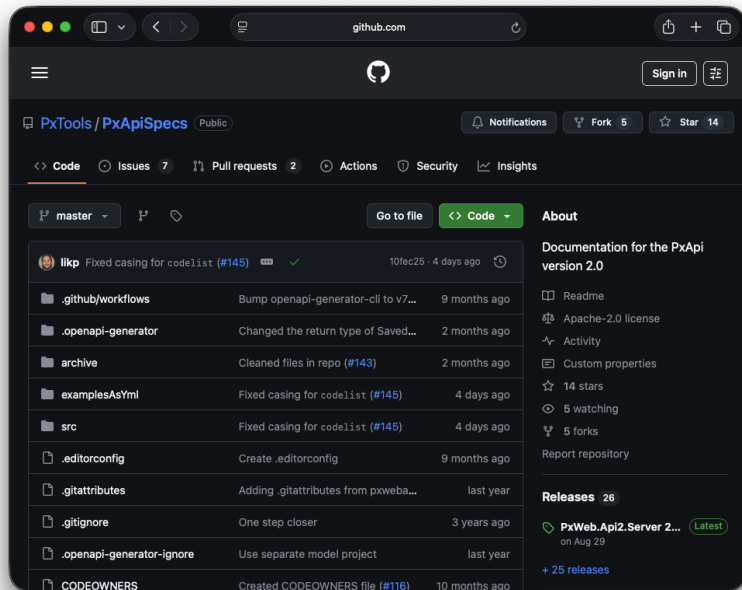
How it was made



How it was made



PxTools/PxApiSpecs



Generate code

- openapi-generator.tech
 - Server: aspnetcore
 - Client: typescript-fetch*



* right now we are still using <https://www.npmjs.com/package/openapi-typescript-codegen>



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PxWeb.Api2.Server

by: pc-axis

.NET 8.0

19,633 total downloads

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Latest version: 2.0.0

PX

Server library for PxWeb API 2.0

PxWeb.Api2.Server.Models

by: pc-axis

.NET 5.0

.NET Core 2.0

.NET Standard 2.0

.NET Framework 4.6.1

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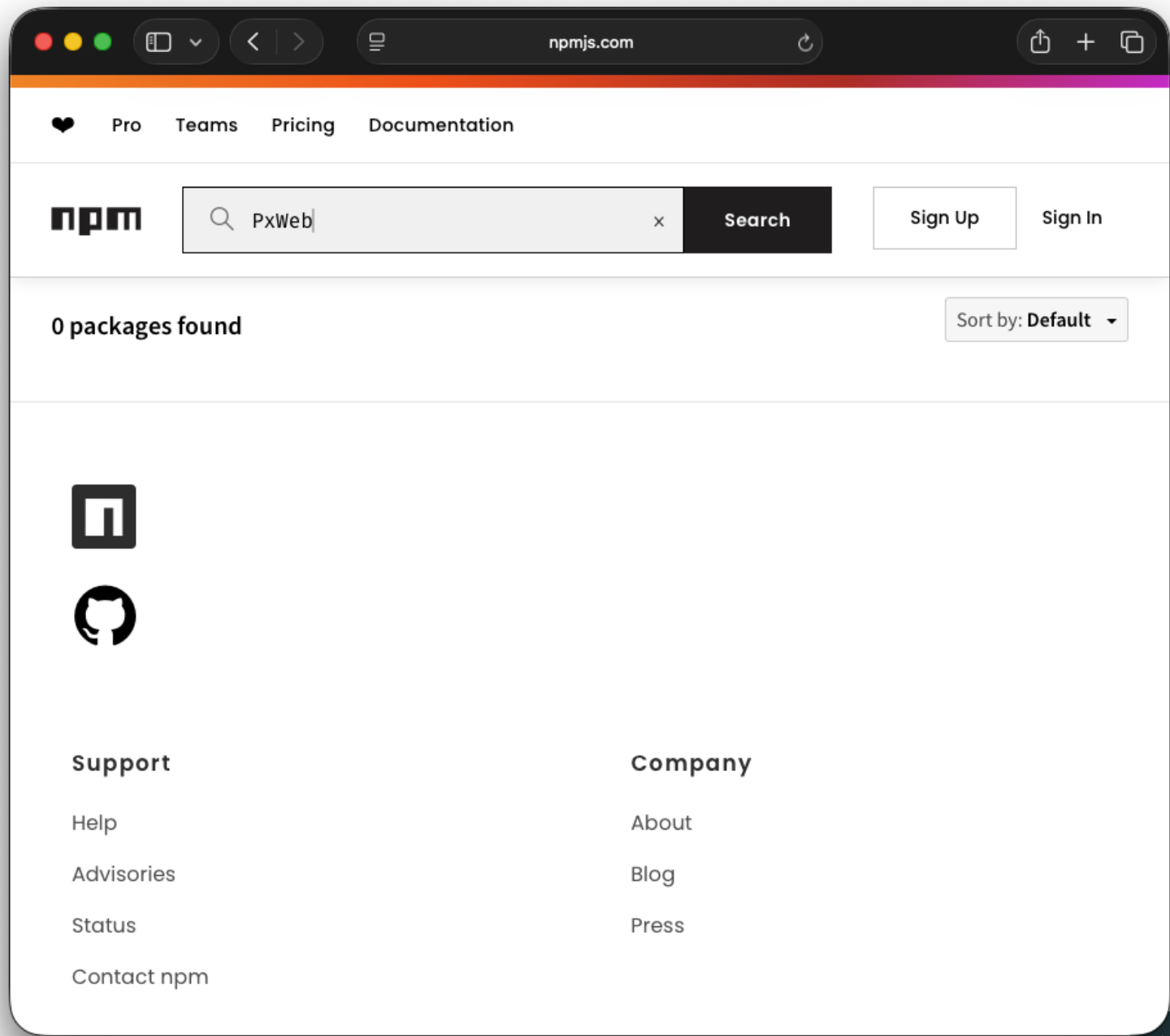
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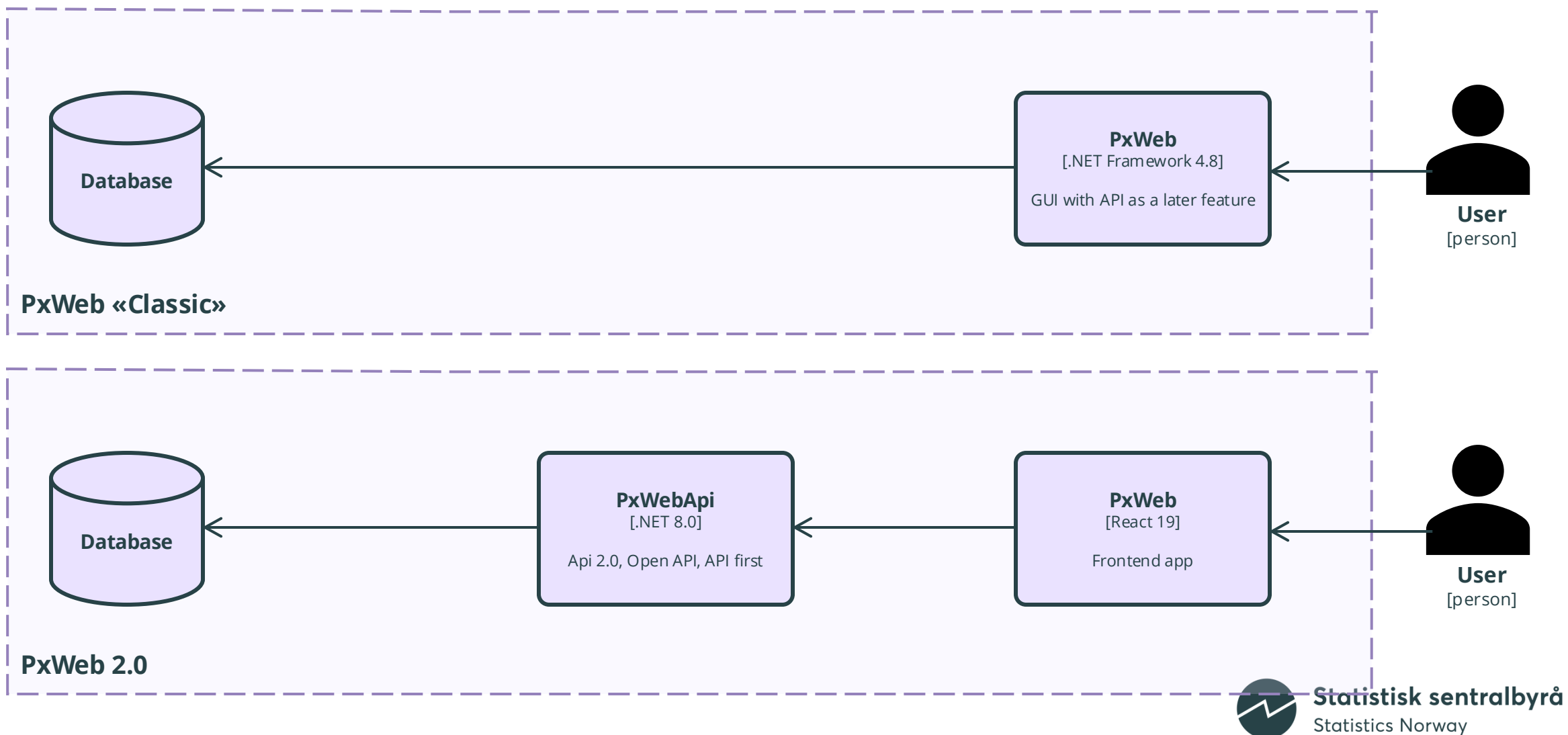
PX

Server library for PxWeb API 2.0

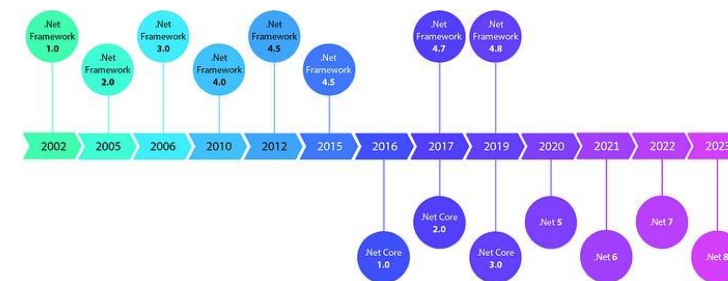
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PxWeb «Classic» vs 2.0

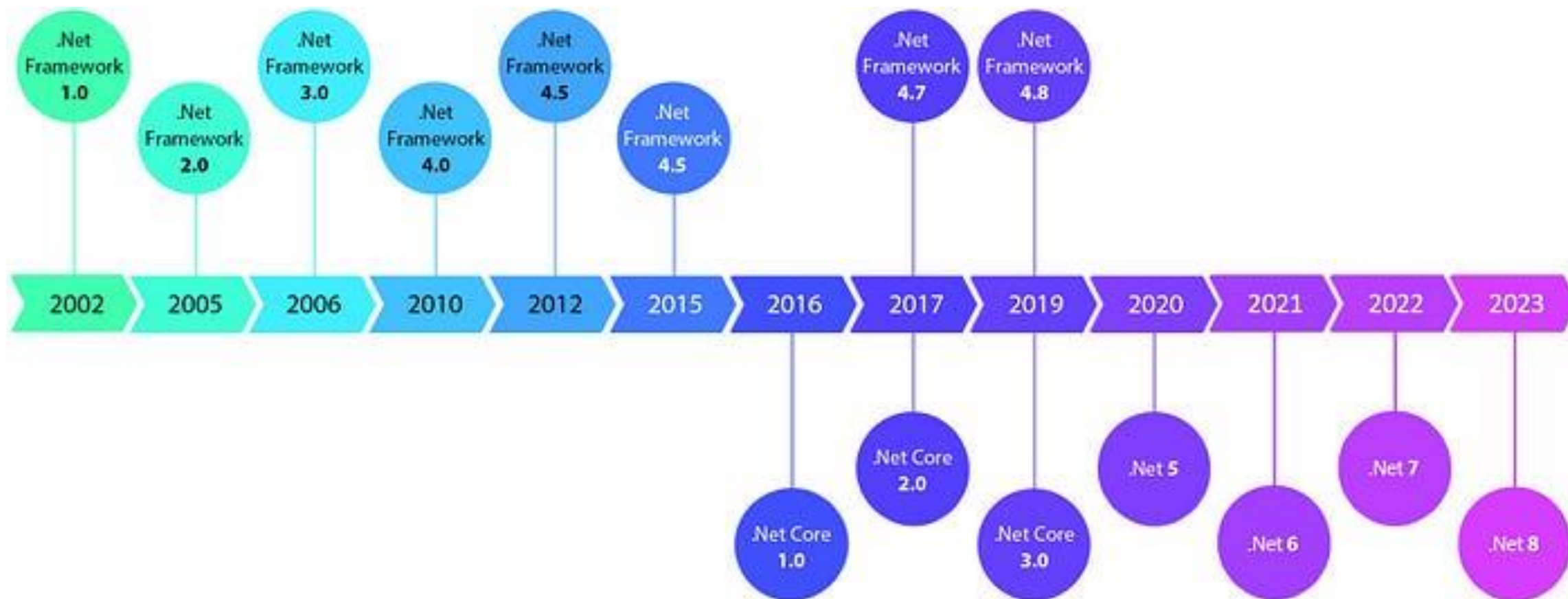


PxWeb «Classic» vs 2.0



	Classic	2.0
Database	PX, CNMM	PX, CNMM
API	.NET Framework 4.8 C#	.NET 8.0 C#
GUI	.NET Framework 4.8 ASP.NET Web Forms C#	React TypeScript
API spesification	-	OpenAPI
Plattforms	Windows	Linux, macOS, Windows





Libraries in .NET Standard 2.0

- PCAxis.Core
- PCAxis.Sql
- PCAxis.Serializers
- PCAxis.Menu
- ...

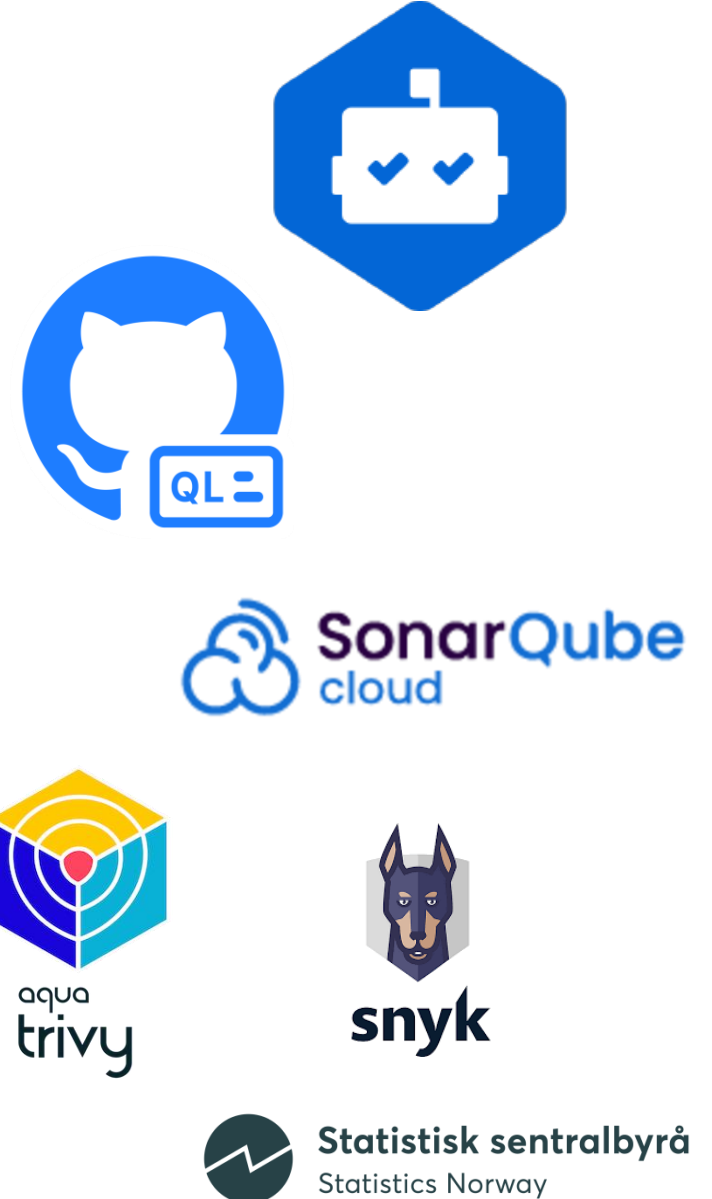
Version: .NET Standard 2.0 Available APIs: 32,638 of 37,118

.NET Implementation	Version Support
.NET and .NET Core	✗ 1.0 ✗ 1.1 ✓ 2.0 ✓ 2.1 ✓ 2.2 ✓ 3.0 ✓ 3.1 ✓ 5.0 ✓ 6.0 ✓ 7.0 ✓ 8.0 ✓ 9.0
.NET Framework	✗ 4.5 ✗ 4.5.1 ✗ 4.5.2 ✗ 4.6 ✓ 4.6.1 ✓ 4.6.2 ✓ 4.7 ✓ 4.7.1 ✓ 4.7.2 ✓ 4.8 ✓ 4.8.1
Mono	✗ 4.6 ✓ 5.4 ✓ 6.4
Xamarin.iOS	✗ 10.0 ✓ 10.14 ✓ 12.16
Xamarin.Android	✗ 7.0 ✓ 8.0 ✓ 10.0
Universal Windows Platform	✗ 8.0 ✗ 8.1 ✗ 10.0 ✓ 10.0.16299 ✓ TBD
Unity	✓ 2018.1 ✓ 2021.2

Code Security

- Dependabot security updates
 - Dependabot version updates
- Static code analysis
 - CodeQL (GitHub)
 - SonarQube Cloud
- Trivy container image scanning
- Snyp Advisor
- HTTP Security Response Headers
 - <https://developer.mozilla.org/en-US/observatory>,
<https://securityheaders.com/>

- Pipelines (GitHub Action workflows)
- IDE (Visual Studio Code)



Kiitos!

