

YOUR IT CONFERENCE

CODECAMP

Partners

GLOBAL PARTNERS



LOCAL ADMINISTRATION



DIAMOND



PLATINUM



GOLD



LEARNING PARTNER



TRAVEL PARTNER



PARTNER CONFERENCES



MEDIA PARTNER



WELLNESS PARTNER



LOGISTICS PARTNER



Spice up your mobile apps with Speech API from Microsoft Cognitive Services

Laurențiu Stamate






Microsoft Student Partners UPB

13th of May 2017

Agenda

- Cognitive Services in Details
 - Speech API
- Xamarin and Xamarin.Forms
- .NETStandard
- Demo using Speech APIs and Xamarin
- References (dev resources)
- Q&A

Cognitive Services in Details

|  Vision |  Speech |  Language |  Knowledge |  Search |
|---|--|--|---|--|
| Computer Vision | Speaker Recognition | Bing Spell Check | Academic Knowledge | Bing Web Search |
| Content Moderator | Custom Recognition (CRIS) | Linguistic Analysis | Entity Linking (ELIS) | Bing Image Search |
| Emotion | Bing Speech | Language Understanding (LUIS) | Knowledge Exploration | Bing Video Search |
| Face | | Text Analytics | Recommendations | Bing News Search |
| Video | | Web Language Model | | Bing Autosuggest |
| | | Translator | | |

Speech API



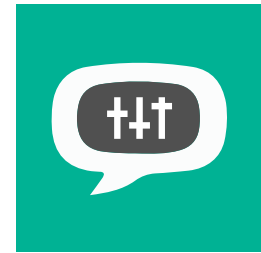
Bing Speech API

Convert speech to text and back again, and understand its intent



Speaker Recognition API

Give your app the ability to know who's talking



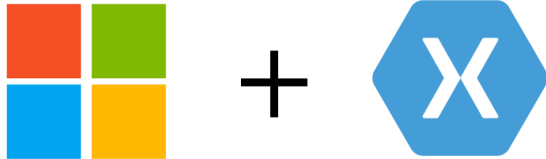
Custom Recognition Intelligent Service

Fine-tune speech recognition for anyone, anywhere

Microsoft Build 2017

- Xamarin Live Player
- Visual Studio Mobile Center with full UWP capabilities
- Visual Studio for Mac GA

Xamarin



Xamarin



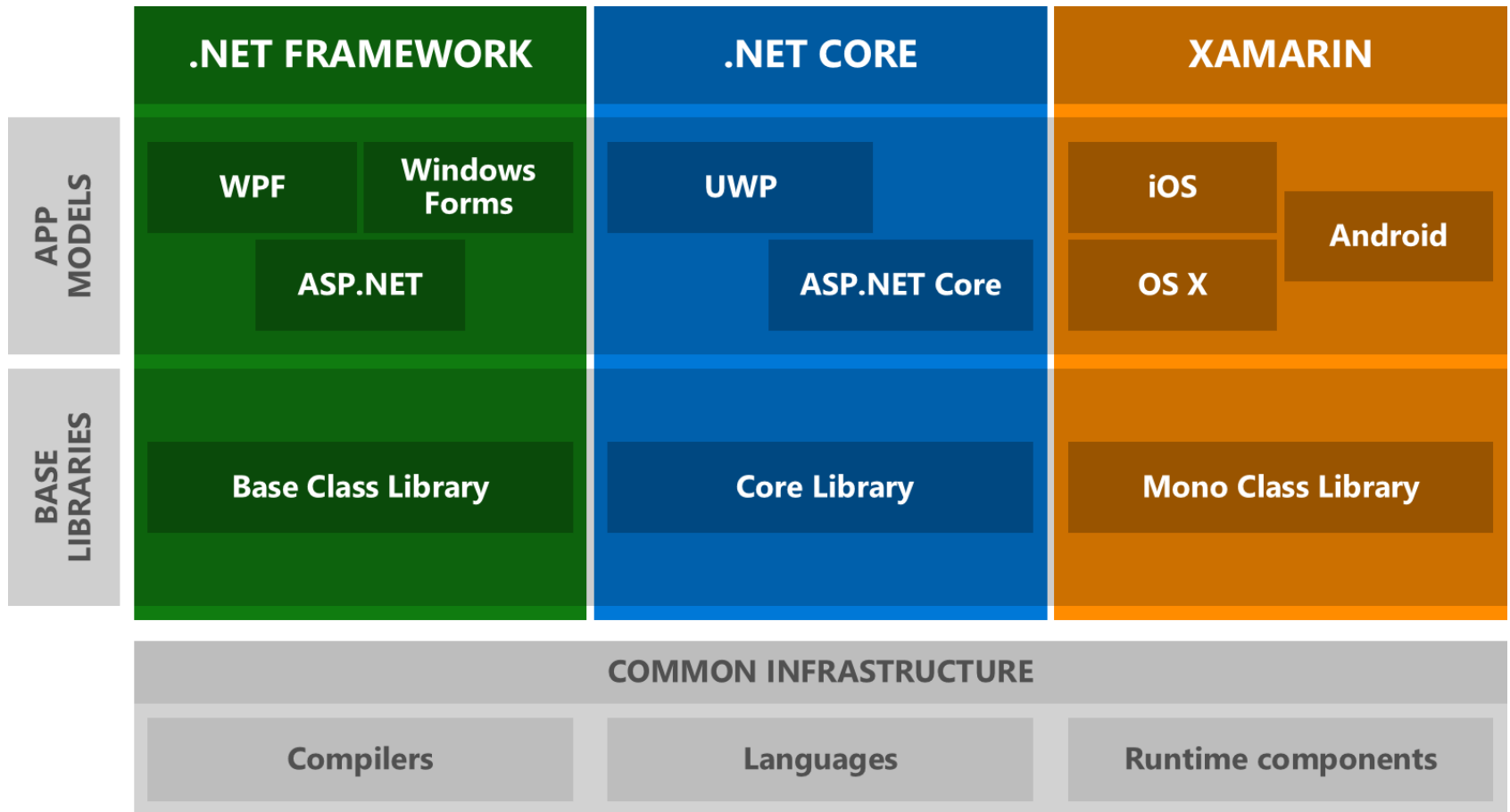
+



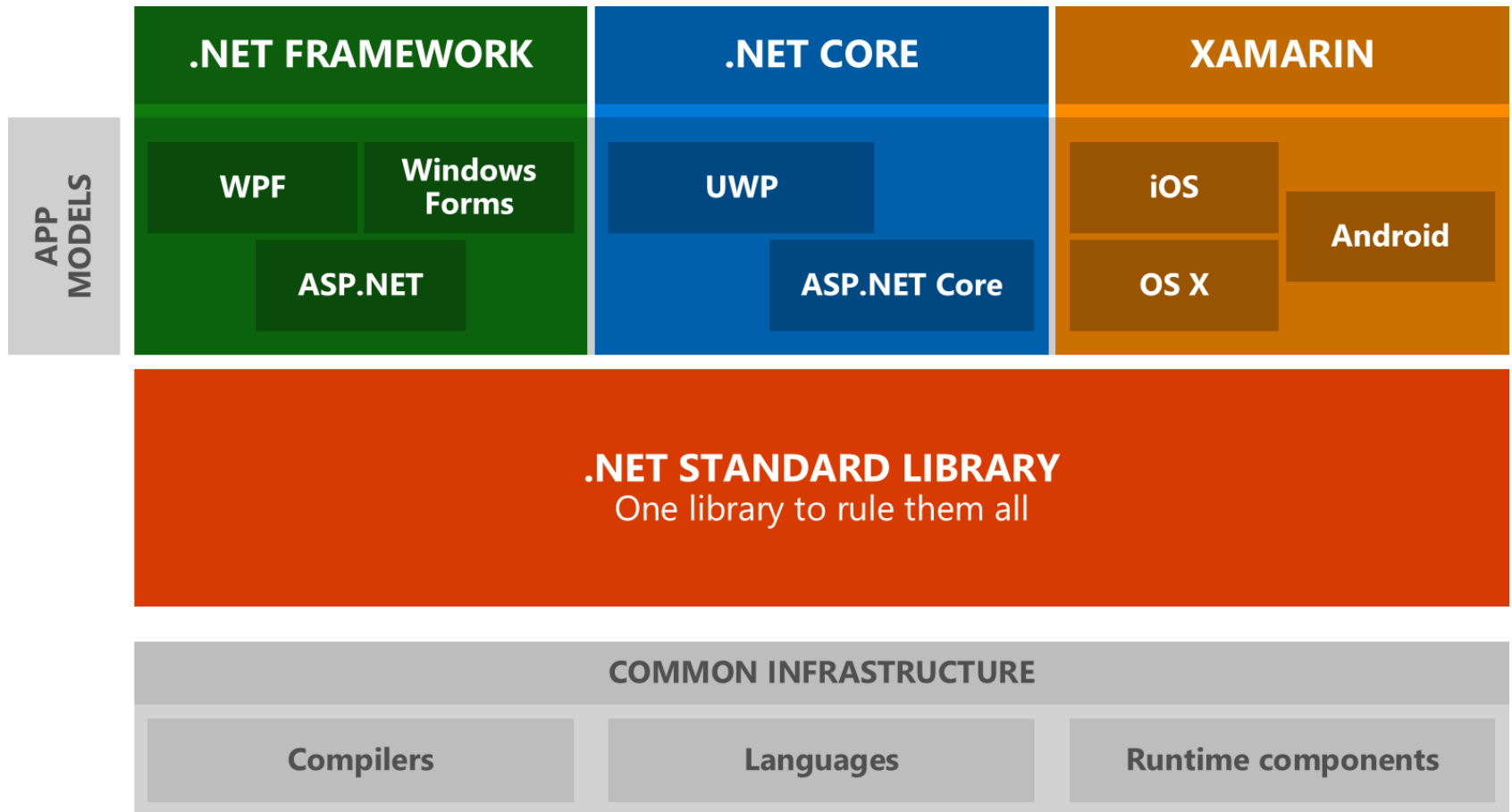
Xamarin.Forms

Shared C# Logic

.NETStandard



Dotnet Standard



Xamarin and UWP



Xamarin and Android



Xamarin and iOS



Demo

Basic Xamarin application using Speech APIs

References (dev resources)

- <http://bit.ly/1Sn7Trf> [Documentation]
- <http://bit.ly/2pcOqCD> [Xamarin DotnetSample]
- <http://bit.ly/1MpgwoT> [Speech API demo page]
- <http://bit.ly/2o9gZln> [BingSpeech REST API]
- <http://bit.ly/2d48m6q> [NETStandard]
- <http://bit.ly/2r2C9Fo> [NetStandardStorage]
- <http://bit.ly/2qekask> [BingSpeechPlugin]

Laurentiu Stamate | @laurentiu2811



- Team Leader @ Microsoft Student Partners
- Productivity focus on web and cloud technologies
- Passionate about cross app development
- Held workshops on C#, ASP.NET, UWP
- Blogging at <https://laurentiu.microsoft.pub.ro/>
- Coding at <https://github.com/laurentiustamate94>
- Contributing at <https://github.com/microsoft-dx>

Feedback ❤️



<https://codecamp.ro/feedback>



Q&A



Thank you ❤️