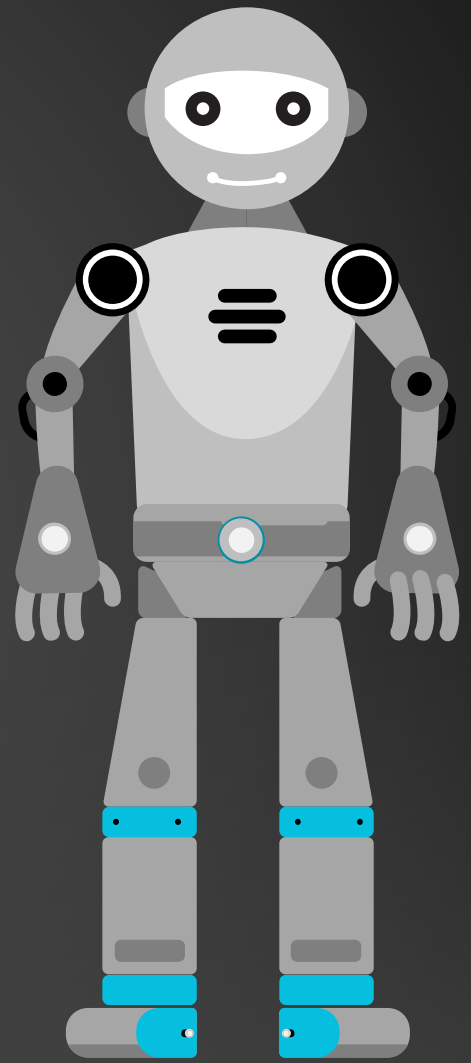
MY FIRST BOT

WITH MICROSOFT BOT FRAMEWORK



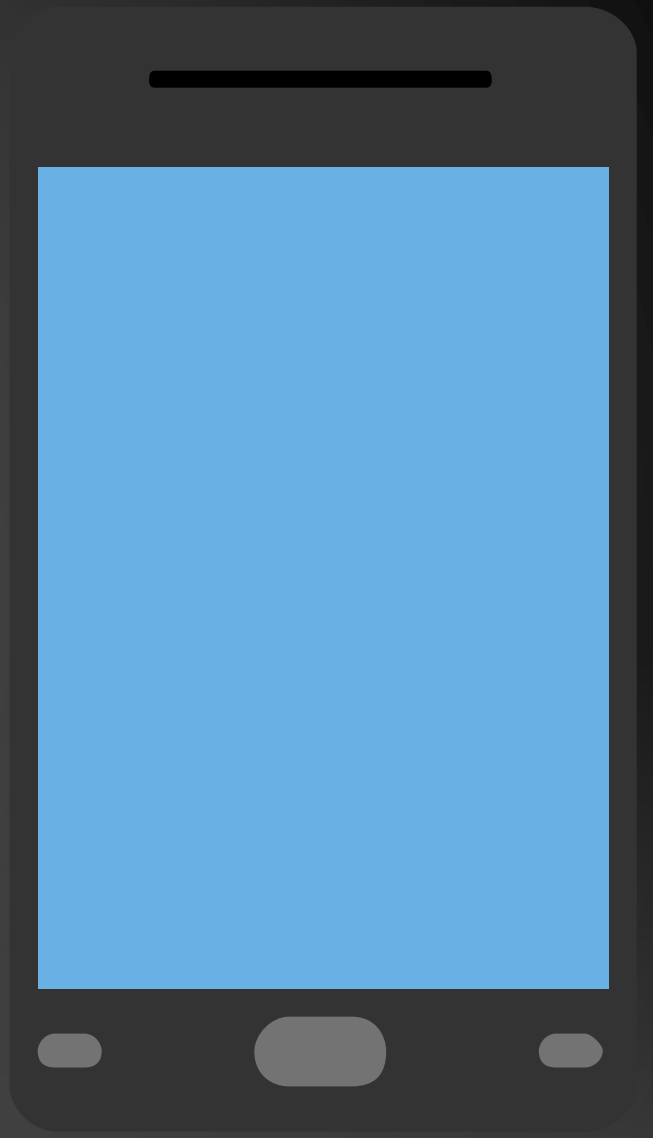
MIGUEL ANGEL RUIZ ALVAREZ

- Developer since 2010 working with the .NET mainly in Web stack such ASP.NET Web Forms, MVC and Web Api.
- Currently working for EPAM Systems Mexico as a Software Engineer.
- I like to learn about new released and in progress technologies.

WHAT IS A BOT?

- **Wikipedia:** A bot (short for "robot") is a computer program, imitating the behavior of a human.

- **Techterms:** A bot is an automated program that runs over the Internet. Some bots run automatically, while others only execute commands when they receive specific input.



WHAT IS THE BOT FRAMEWORK?

What?

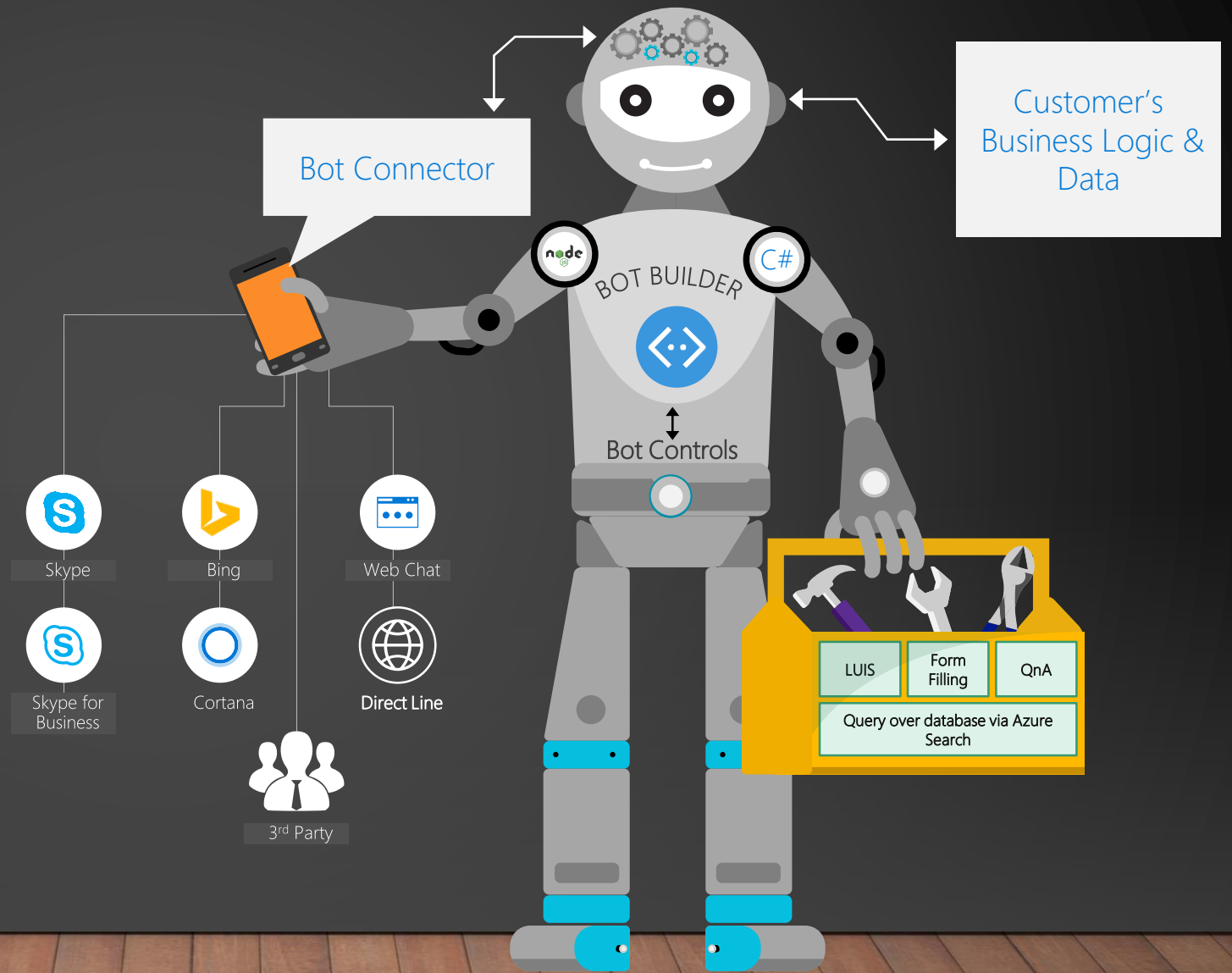
- Tools for building REST Web Sites
- Mechanisms for handle dialogs
- Easy to debug and analyze

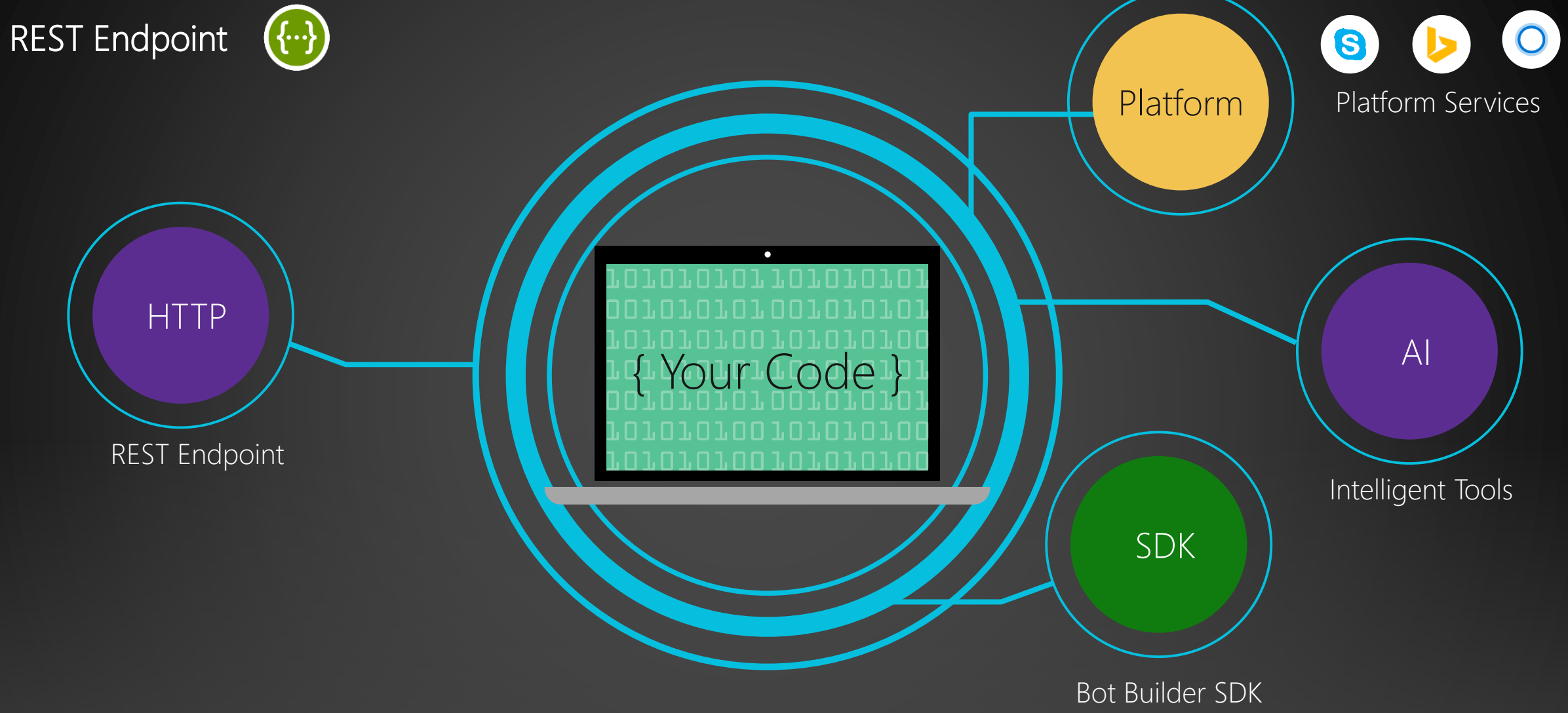
Why?

- Implements standard protocols
- Modeling conversations is hard. Tools help!
- UI across multiple canvases is hard. Adaptive Cards rock!
- Common and well understood patterns

Goals

- Start Simple. Add Complexity after.
- Bot adapts to the user, based on context




REST Endpoint
Platform
Platform Services
HTTP
{ Your Code }
AI
REST Endpoint
Intelligent Tools
SDK
Bot Builder SDK

Key concepts in the Bot Builder SDK	
Connector	Provides a single REST API that enables a bot to communicate across multiple channels.
Activity	Object to pass information back and forth between bot and channel. The most common is message.
Dialog	Models a conversation and manage conversation flow. The dialog context maintains the stack of dialogs that are active in the conversation.

GROWTH

10,000,000+ Messages / day

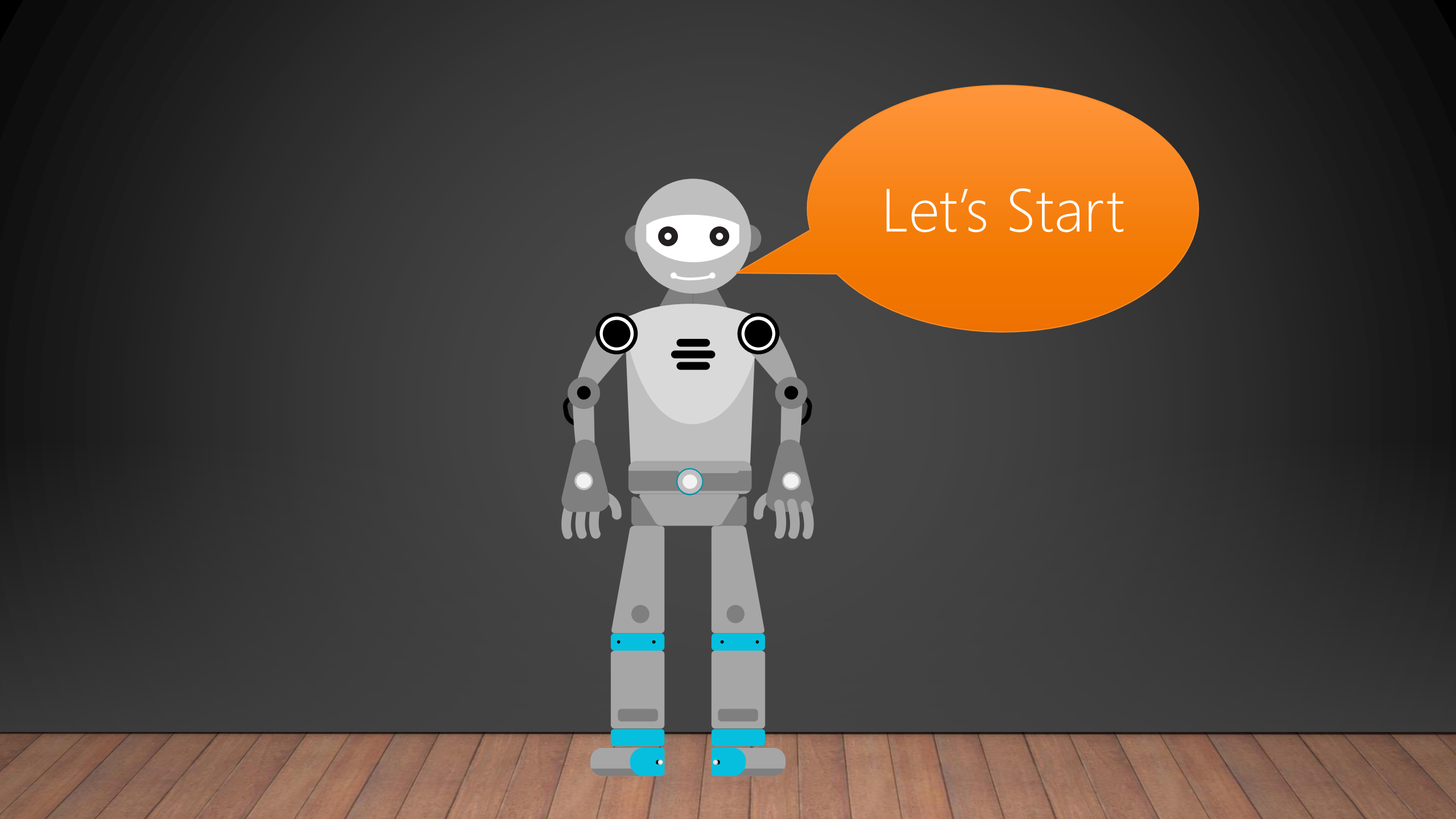
1,000,000+ Unique users / day

100,000+ Developers

10,000+ Active bots

1,000+ Companies

* Numbers from Build 2017

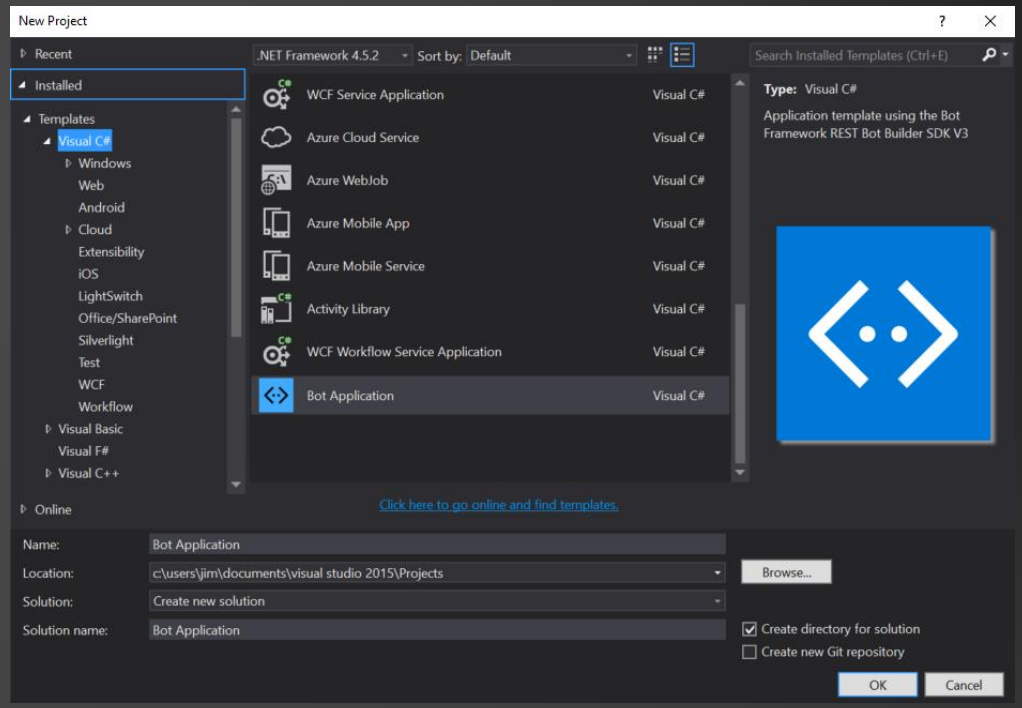

Let's Start

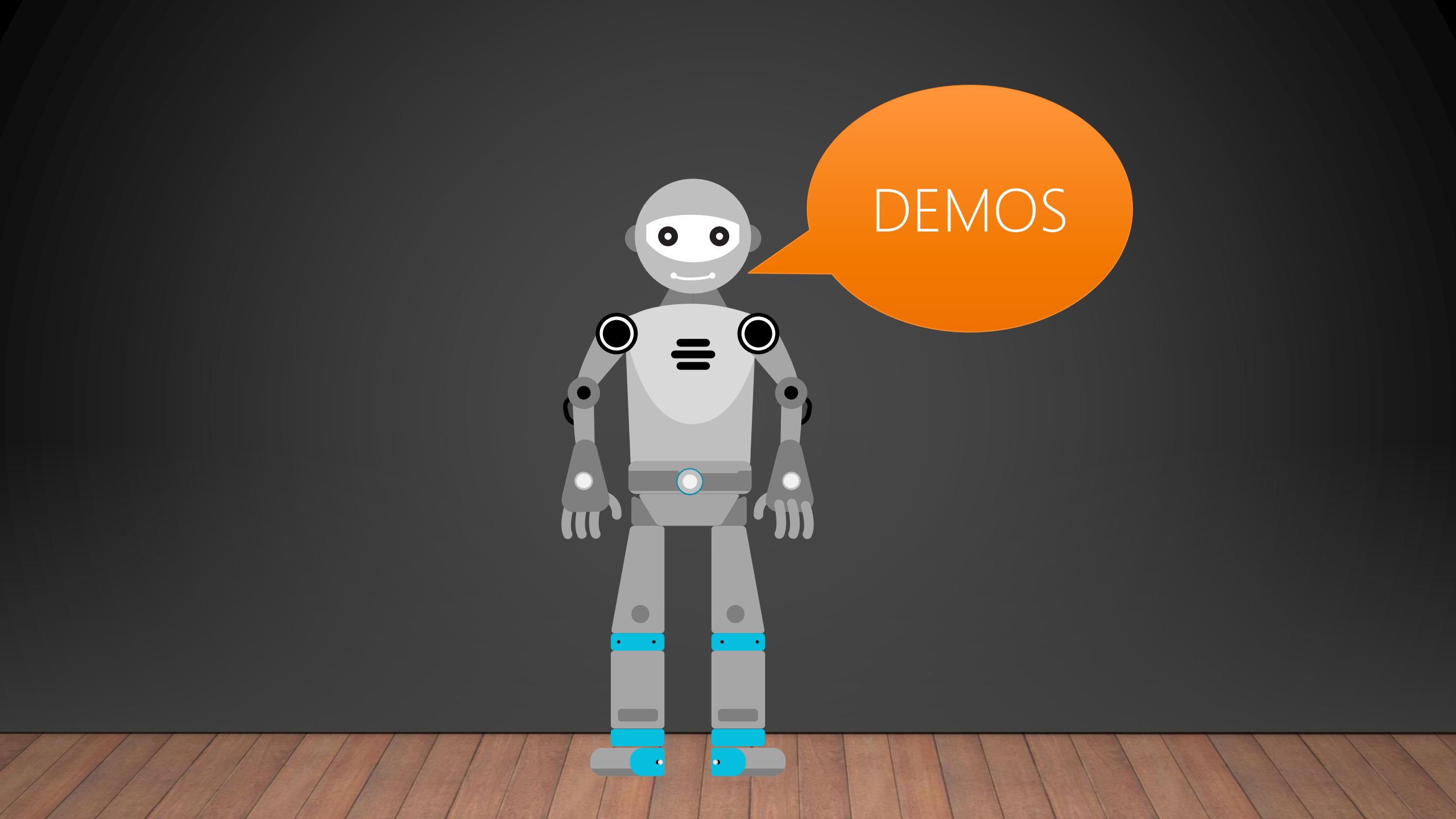
PREREQUISITES

- Install Visual Studio 2015/2017
- In Visual Studio, update all extensions to their latest version
- Download and install the **Bot Application, Bot Controller, and Bot Dialog .zip files**.
  - Visual Studio 201x\Templates\ProjectTemplates\Visual C#\
- Install the Bot Framework Emulator

CREATING THE BOT PROJECT

- Add new project
  - Templates/Visual C#/Bot Applications
- Restore and update Nuget Packages




DEMOS

PUBLISHING A BOT

- Register your bot in https://dev.botframework.com/bots
- Get App Id and App password for your bot
- Deploy your bot rest service(set the Id and password in web.config file)
- Test your bot in with the Web Chat tool
- Enable the channels of your preference

RESOURCES

- Bot Framework:
  - Page: https://dev.botframework.com/
  - Documentation: https://docs.microsoft.com/en-us/bot-framework/
  - Emulator: https://docs.microsoft.com/en-us/bot-framework/debug-bots-emulator
- Bot Builder:
  - SDK Repository: https://github.com/Microsoft/BotBuilder
  - Samples: https://github.com/Microsoft/BotBuilder-Samples
- Channel 9:
  - What's new with the Microsoft Bot Framework: https://channel9.msdn.com/events/Build/2017/B8097
- Demo Thumbnail Bot :
  - Add to skype: https://join.skype.com/bot/21115136-2ece-49e0-a434-cab4306cccf3

QUESTIONS?

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