Azure IoT Tech MeetUp

Intro to Bot Framework

build your own bot in a minutes…

M Ibnu Fadhil
Gravicode
@gravicode | http://gravicode.com

About Me

Muhammad Ibnu Fadhil
Coder.Entrepreneur
T: @mifmasterz / @gravicode

Founder of
PT Gravicode Multinovative Plexindo

Initiator of Gadgeteer Indonesia
https://www.facebook.com/netgadgeteerindonesia

Contributor in Makers.ID
http://makers.id

BOT FRAMEWORK

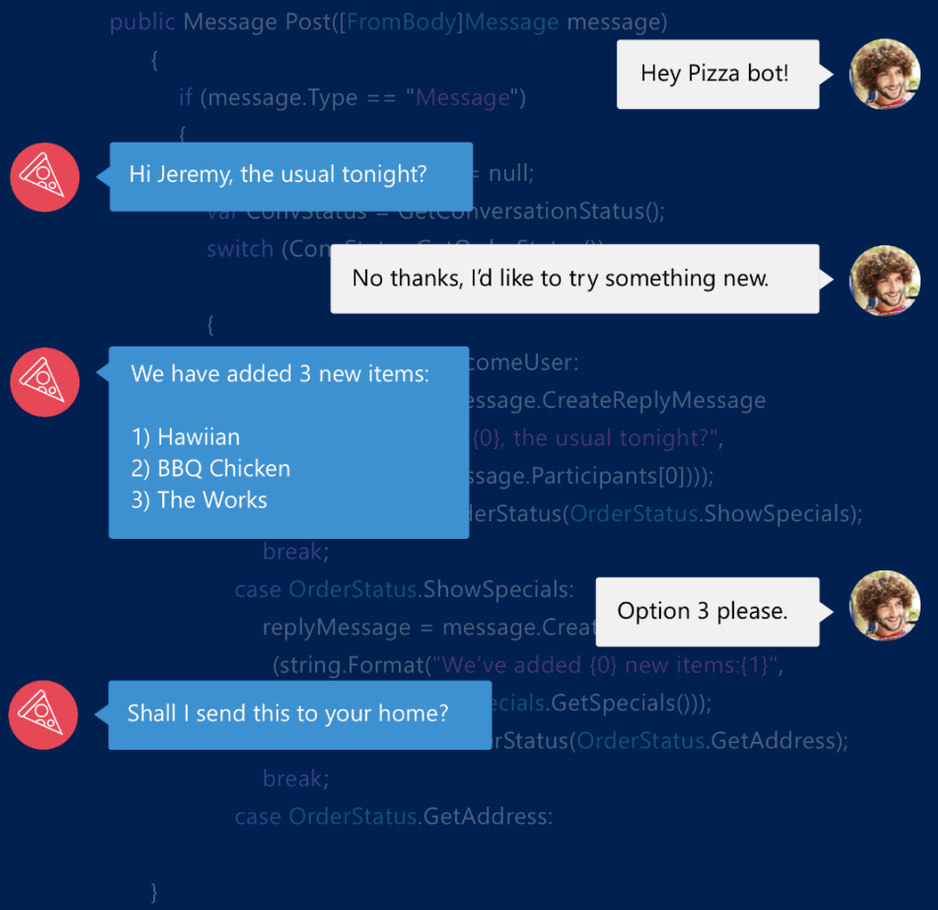
Build and connect intelligent bots that interact naturally wherever your users are talking, from text/sms to Skype, Slack, Office 365 mail and other popular services

How do you make a bot?

How do you make a bot great?

Bot Framework

Bot Framework is a Microsoft-operated service and an SDK.



Bot Framework is one of many tools Microsoft offers for building a complete bot.

Others include: LUIS, Speech APIs, Azure, more

www.botframework.com

Your Bot Framework Bot

Bot Connector

Connect your bot(s) to text/sms, Office 365 mail, Skype, Slack, and other services

- Register, connect, publish and manage your bot through the bot dashboard
- Message routing
- Automatic translation to 30+ languages
- User and state management
- Embeddable web chat control
- Debugging tools

Bot Builder SDKs

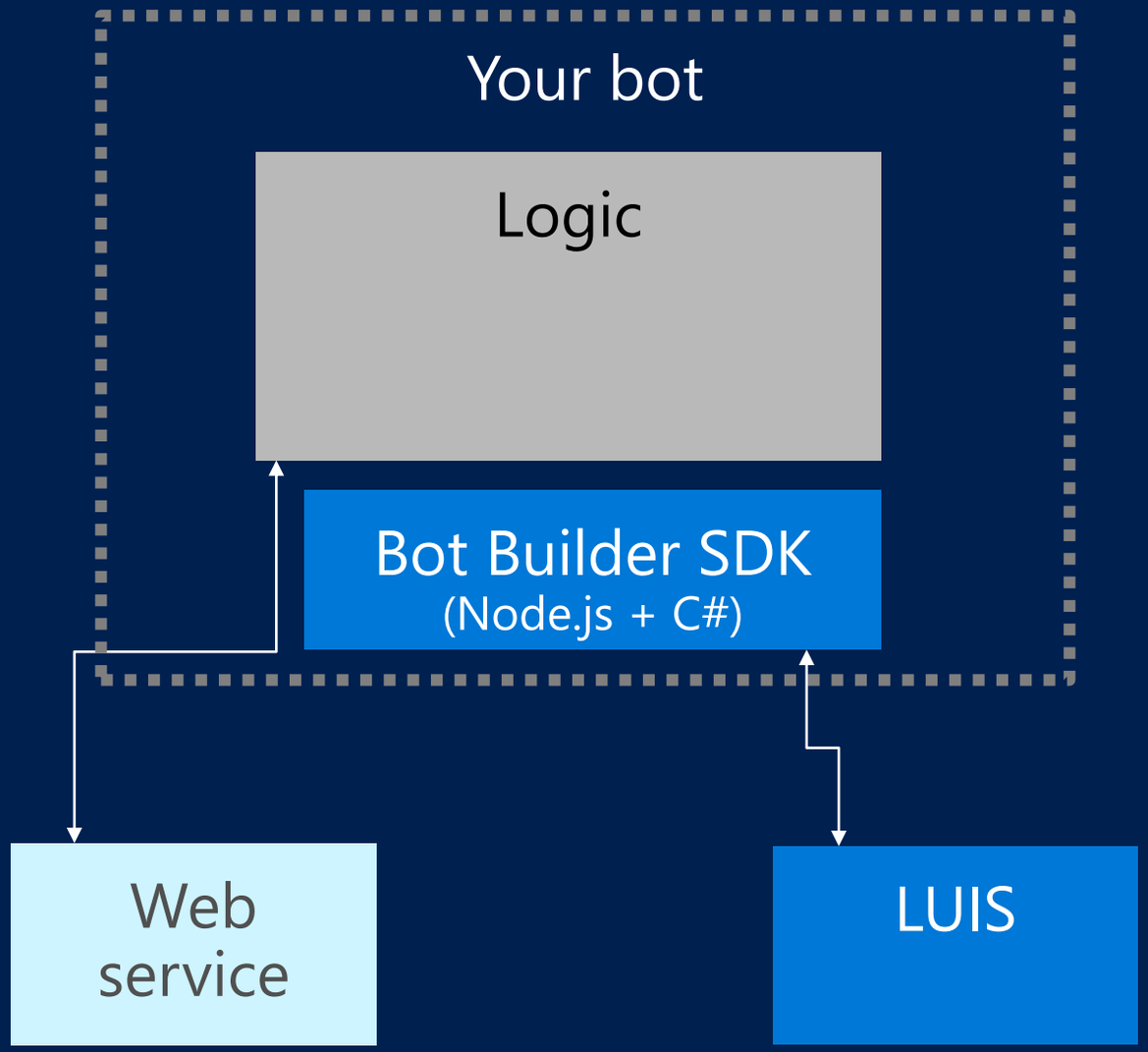
Build great dialogs within your Node.js- or C#-based bot

- Open source SDK on Github
- From simple built-in prompts and command dialogs to simple to use yet sophisticated 'FormFlow' dialogs
- Libraries, samples and tools to make a great conversationalist
- Chat emulator
- Leverage related services available in Cognitive Services

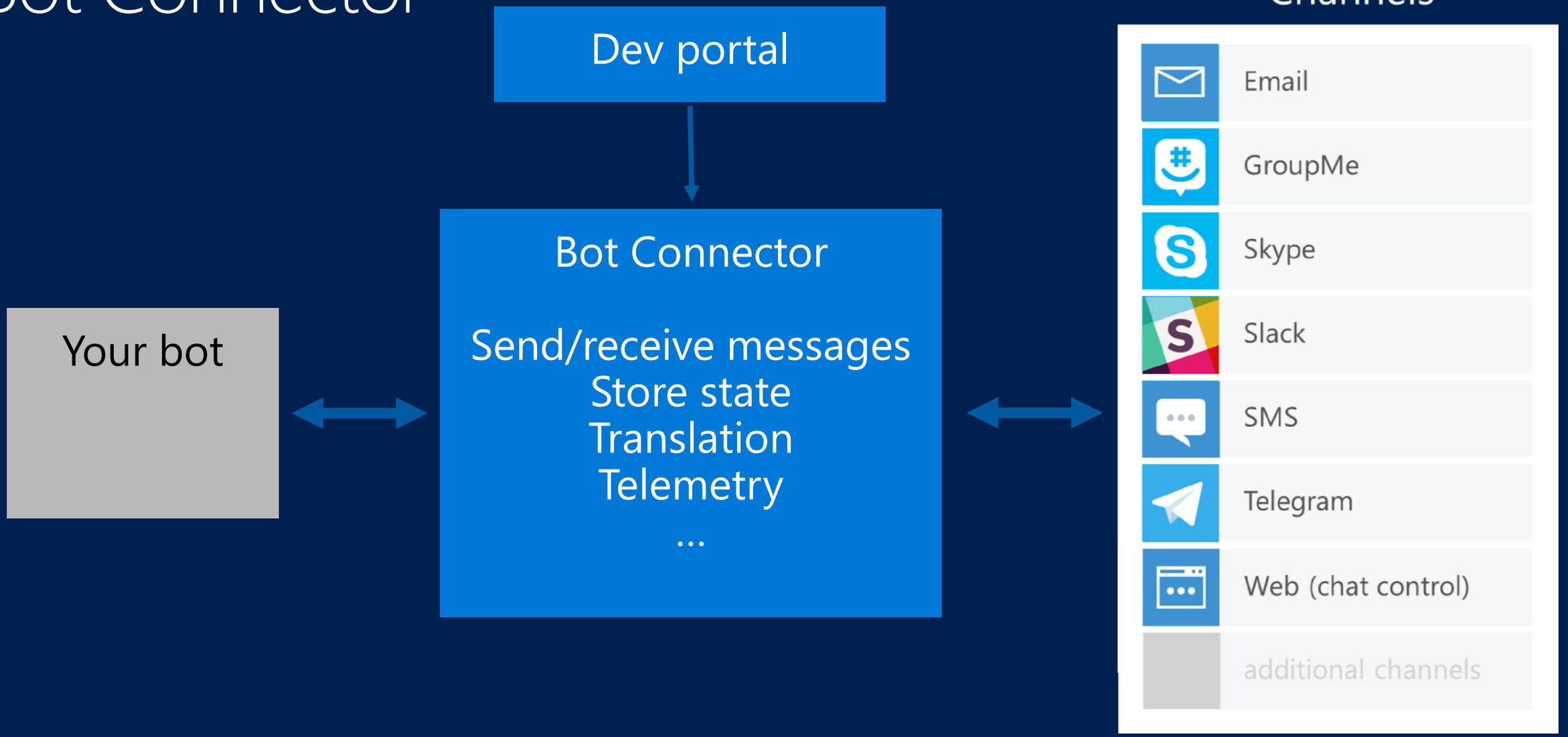
Bot Directory

COMING SOON - Try, use, and add published bots to the world's top conversation experiences

- Public directory of bots registered and approved with Bot Framework
- Users can try your bot from the directory via the web chat control
- Users can discover and add your bot to the channels on which it is configured


Your bot
Logic
Bot Builder SDK
(Node.js + C#)
Web service
LUIS

Bot Connector

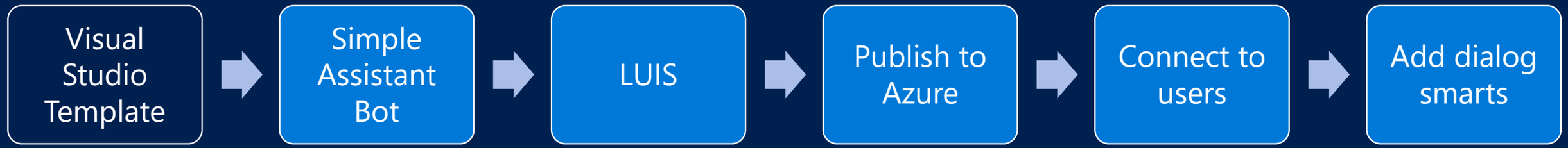


Bot Connector messages

Your bot

Bot Connector

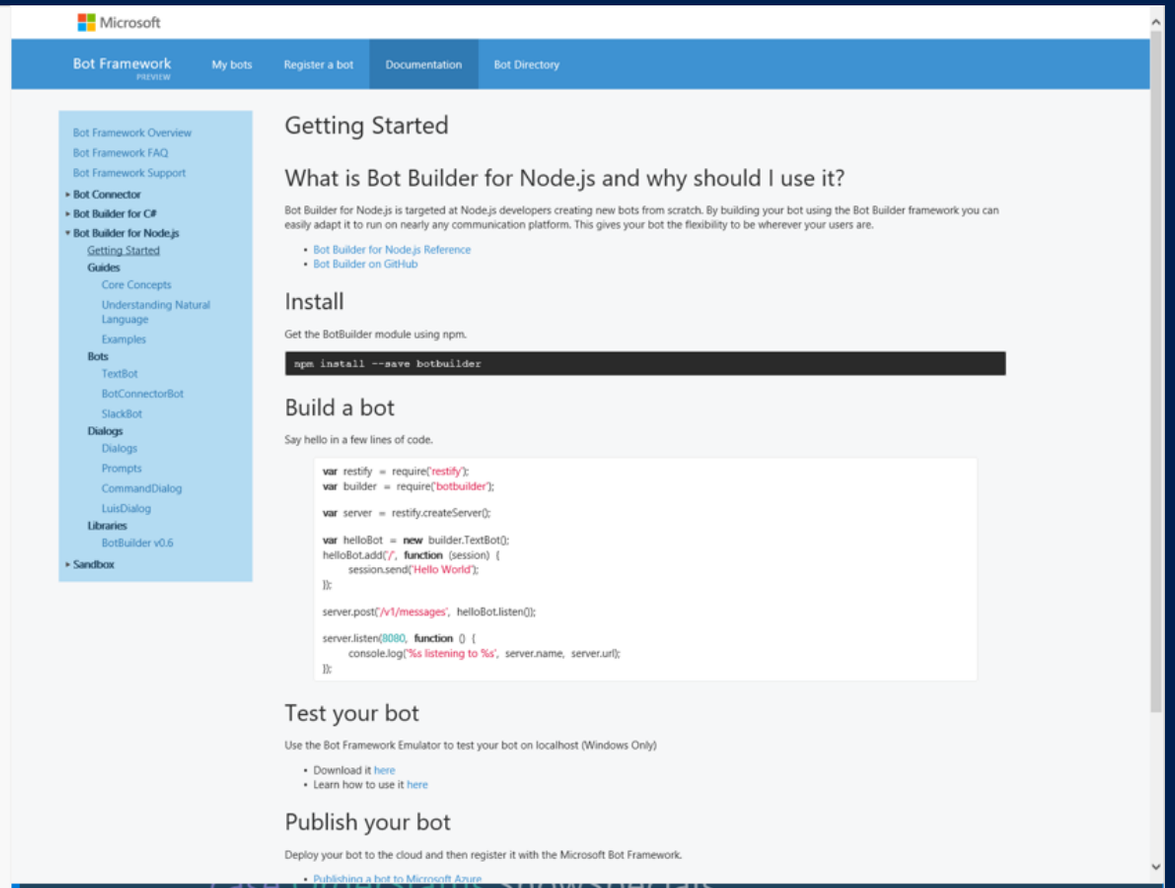
```
{
  "type": "Message",
  "id": "68YrxgtB53Y",
  "conversationId": "DphPaFQrDuZDKyCez4AFGcT4vy5aQDje1lLGIjB8v18MFtb",
  "language": "en",
  "text": "You can say \"/order\" to order!",
  "attachments": [ ],
  "from": {
    "name": "+12065551212",
    "channelId": "sms",
    "address": "+12065551212",
    "id": "Ro52hKN287",
    "isBot": false
  },
  "channelData": { SMS data here },
  "botUserData": { your data here },
  ...
}
```


Visual Studio Template
Simple Assistant Bot
LUIS
Publish to Azure
Connect to users
Add dialog smarts

Bot Builder SDKs

C# and Node.js

- Dialogs to model a conversation
  - Dialogs are reusable
  - Conversations are scalable to multiple machines
  - Dialog state is persisted in Bot Connector (per-user, per-session, per- user+session)
- Types of Dialogs:
  - Built-in prompts
    - Yes/No, String, Number, Choices
  - Natural language understanding (LUIS)
  - Form slot filling (branching, disambiguation, multi-turn)
  - Profile (e.g., home address)




```
case OrderStatus.ShowSpecials:
    replyMessage = message.CreateReplyMessage
     (string.Format("We've added {0} new items:{1}",
     Specials.Count(), Specials.GetSpecials()));
      ConvStatus.SetOrderStatus(OrderStatus.GetAddress);
    break;
case OrderStatus.GetAddress:


}
```

Microsoft

Bot Framework
PREVIEW

My bots | Register a bot | Documentation | Bot Directory

Coming soon

Say hello! Try one of the sample bots from Build 2016 — more bots coming soon.

Sample bots from Build 2016

BuildBot
Microsoft
The BuildBot provides contextual information about the 2016 Build

Bing Image Bot
Bing
Search the web for memes, gifs, stickers, and other images.

MurphyBot
Microsoft
MurphyBot is an experimental chat bot built for answering "what if..."

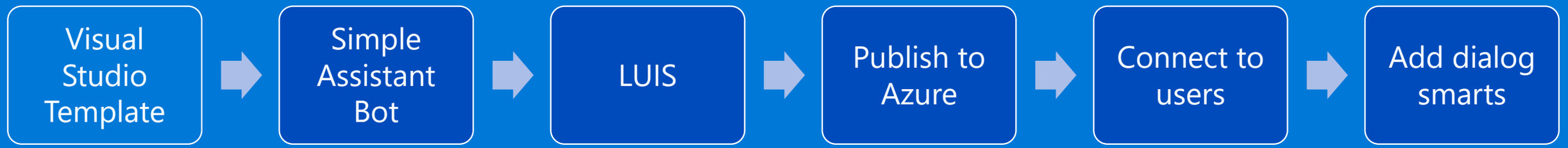
Bing News Bot
Bing
Search the web for the latest news using Bing.

CaptionBot
Microsoft
I can understand the content of any image and I'll try to describe it as well

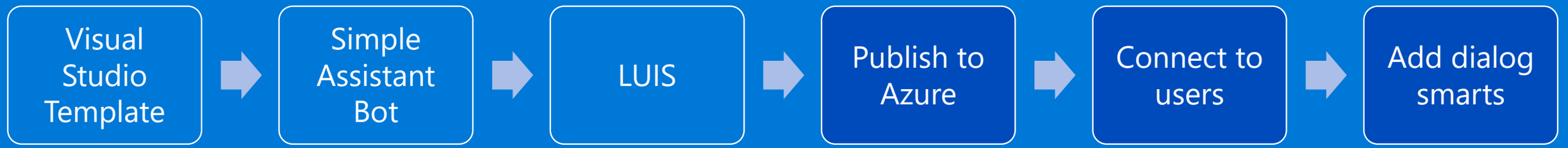
Bing Music Bot
Bing
Search the web, including popular sites like YouTube, Vevo, LyricFind,

Contact us | Privacy & cookies | Terms of use | © 2016 Microsoft

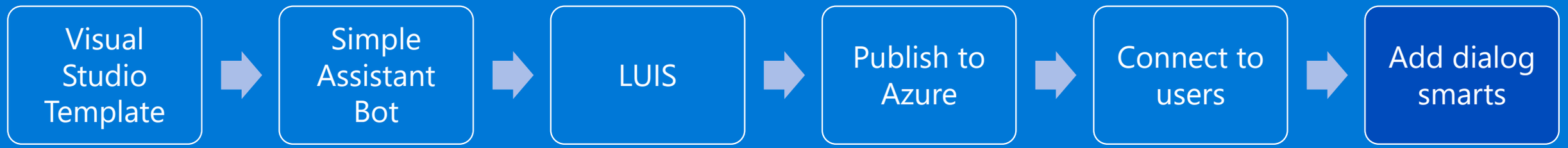
File -> New bot


Visual Studio Template
Simple Assistant Bot
LUIS
Publish to Azure
Connect to users
Add dialog smarts

Connecting your bot to users



Dialog smarts



Resources

botframework.com

Bot Builder Samples :
https://github.com/Microsoft/BotBuilder-Samples

Bot Emulator:
https://github.com/Microsoft/BotFramework-Emulator

Bot Intelligence:
https://docs.botframework.com/en-us/bot-intelligence/getting-started/

C# SDK:
https://docs.botframework.com/en-us/csharp/builder/sdkreference/

Node.js SDK:
https://docs.botframework.com/en-us/node/builder/overview/

Publish Bot to Azure:
https://docs.botframework.com/en-us/csharp/builder/sdkreference/gettingstarted.html

www.botframework.com

Demo Time !!

Demo 1:
Basic Bot

Demo 2:
Create Bot using LUIS

Demo 3:
Create your online shop ‘assistant’ bot

Demo 4:
Put some intelligence in your bot

Demo 5:
Publishing your bot to azure and make it available on chat channels

Microsoft

Thank You!

“Empower your business with intelligence app”

fadhil@Gravicode.com