Exploring, Developing and Deploying Voice Applications on the Big 4
The Ultimate Test of Innovation Culture at the Enterprise Level

Gurpreet Singh
Amandeep Bakshi
The Team

Demo

Replace a water heater that is leaking. It is a 50 gallon water heater.

“No problem, we will find a plumber and have them call you shortly. Please stay by your phone.”
The Big 4

Amazon Alexa

Apple Siri

Google Now

Microsoft Cortana
How Popular is Voice on the Big 4

1 billion+ devices
- 70+ commands/intents
- Popular: Flickster, Instacart, Walmart
- Google Developers Launchpad Program (closed)

270+ million PC’s - Windows 10
- 1,000 Cortana-enabled apps
- Open API
- Satya Nadella - focus of human and computer interaction at recent developer conference

1 billion+ devices
- 1+ billion Siri requests/wk
- Closed API

500K+ Echo devices
- 135 skills available
- $100M investment fund to fuel voice tech
# Exploring Voice Applications on the Big 4

<table>
<thead>
<tr>
<th>Open to 3rd Party Development</th>
<th>Integration Type</th>
<th>Custom Integration at OS level</th>
<th>Developer Outreach</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>Voice App</td>
<td>?</td>
<td>✔</td>
</tr>
<tr>
<td>✗</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>✔</td>
<td>OS / In-App</td>
<td>Maybe</td>
<td>Limited</td>
</tr>
<tr>
<td>✔</td>
<td>OS / In-App</td>
<td>Limited</td>
<td></td>
</tr>
</tbody>
</table>
Developing Voice Applications on the Big 4

**Supported Languages:**
- Java
- Python
- JavaScript

**Available Testing Tools:**
- Voice Simulator
- Service Simulator

**Development Support:**
- Developer Forums
- Developer FAQ’s
- Email
- Android SDK
- Android Studio
- Google Play Services
- Voice Interactions
- CodeLab
- Universal Windows App Development Tools
- Microsoft Virtual Academy
Developed a Voice App – What’s next?

Review Process: ✔

Advanced Support: ✔ ✔

Scalability: ✔ N/A ✔

?” Maybe