

Build Watson-Enhanced Voice Agents on IBM Cloud with Nexmo/Vonage

—

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Hi, I'm Dave

I'm a developer advocate for IBM in San Francisco. I also help organize:

- The SF JavaScript Meetup
- IBM Developer SF Meetup
- ForwardJS San Francisco && Ottawa

I participate in meetups, hackathons, webinars and write articles about technology for IBM and other organizations.



Agenda

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Step 0: Sign Up for IBM Cloud Account

ibm.biz/nexmo-workshop

What is Nexmo?

“Nexmo, the Vonage API Platform is a business unit of Vonage that develops and markets communication APIs to enable developers and businesses to rapidly innovate the way they communicate with their customers. We tear down the barriers to entry so that any developer can reach a global audience from day 1 and enable businesses to create customer experiences so they can delight their customers.”



Developers be like:



COMMUNICATION APIs

Cloud communications building blocks with global reach.



Voice

Build modern, high-quality voice applications in the cloud.



Video

Build live interactive video into your web and mobile apps.



SMS

Programmatically send and receive SMS in practically every country.



SIP Trunking

Make and receive calls from the cloud with your existing VoIP infrastructure.



Messages NEW

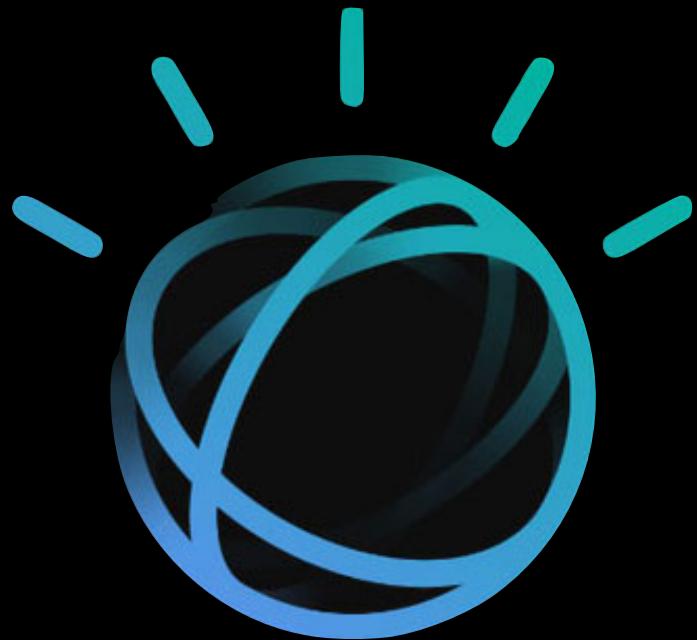
Communicate with [WhatsApp](#), [Facebook Messenger](#), [MMS](#), and [Viber](#).



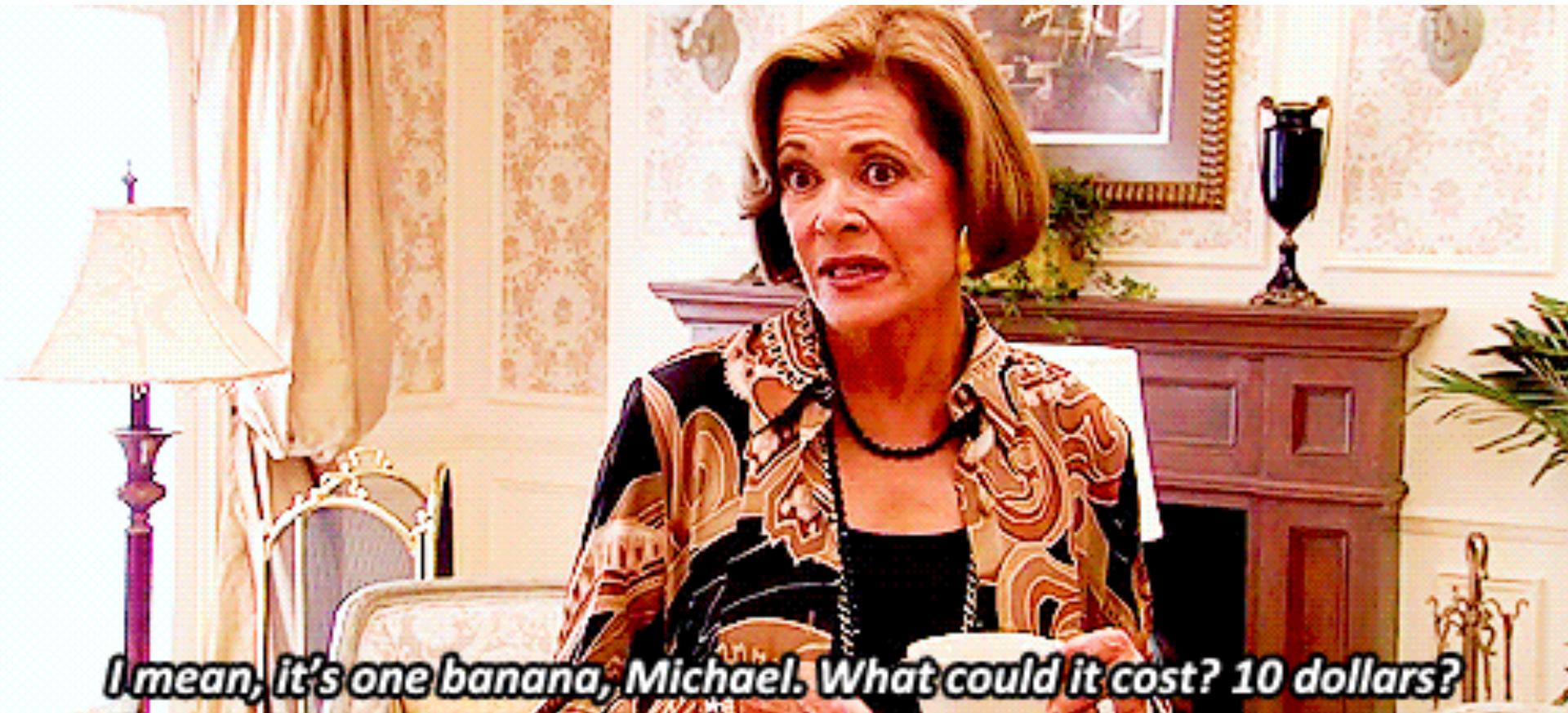
Number Insight

Get real-time intelligence on any phone number in the world.

↳ IBM Watson Services Overview



Today's Nexmo/Vonage Services will be free... mostly



I mean, it's one banana, Michael. What could it cost? 10 dollars?

Prior Workshop: Tone Analyzer

ibm.com/watson/services/tone-analyzer



Prior Workshop: Speech to Text

ibm.com/watson/services/speech-to-text

The question of what is artificial intelligence is a complex one non I would say if if we define artificial intelligence is the ability of a machine on its own to understand large volumes of data to reason that data with a purpose state to predict the future and then tell you continue to learn and get better.

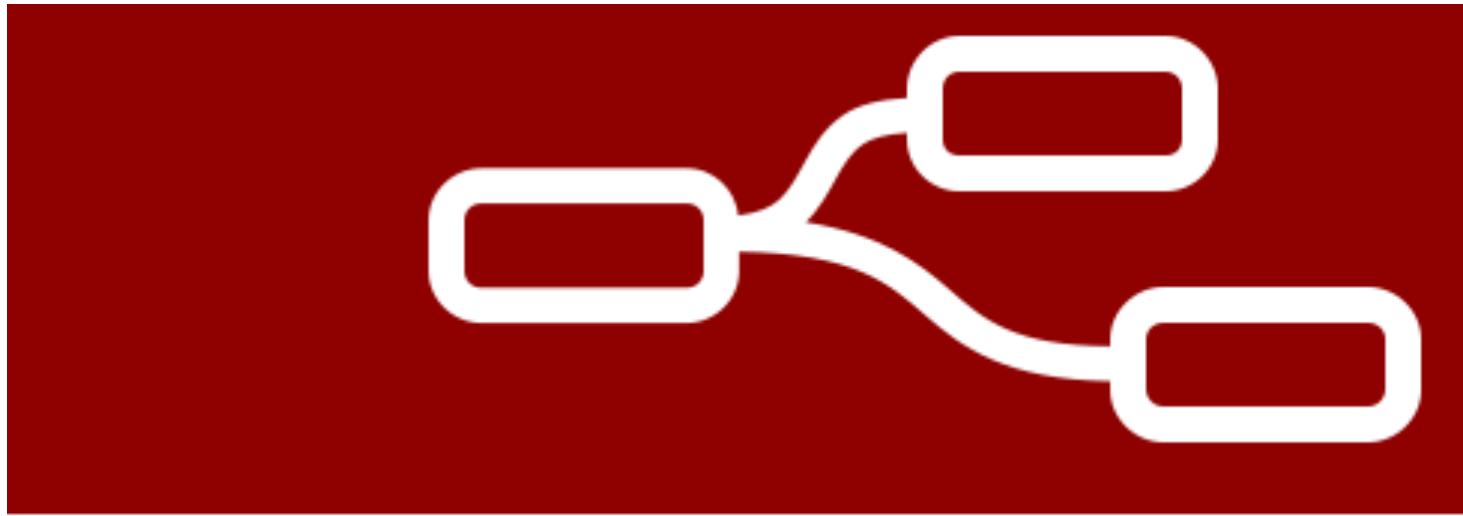
Prior Workshop: Natural Language Understanding

ibm.com/watson/services/natural-language-understanding/

Aäå

1. Node-RED

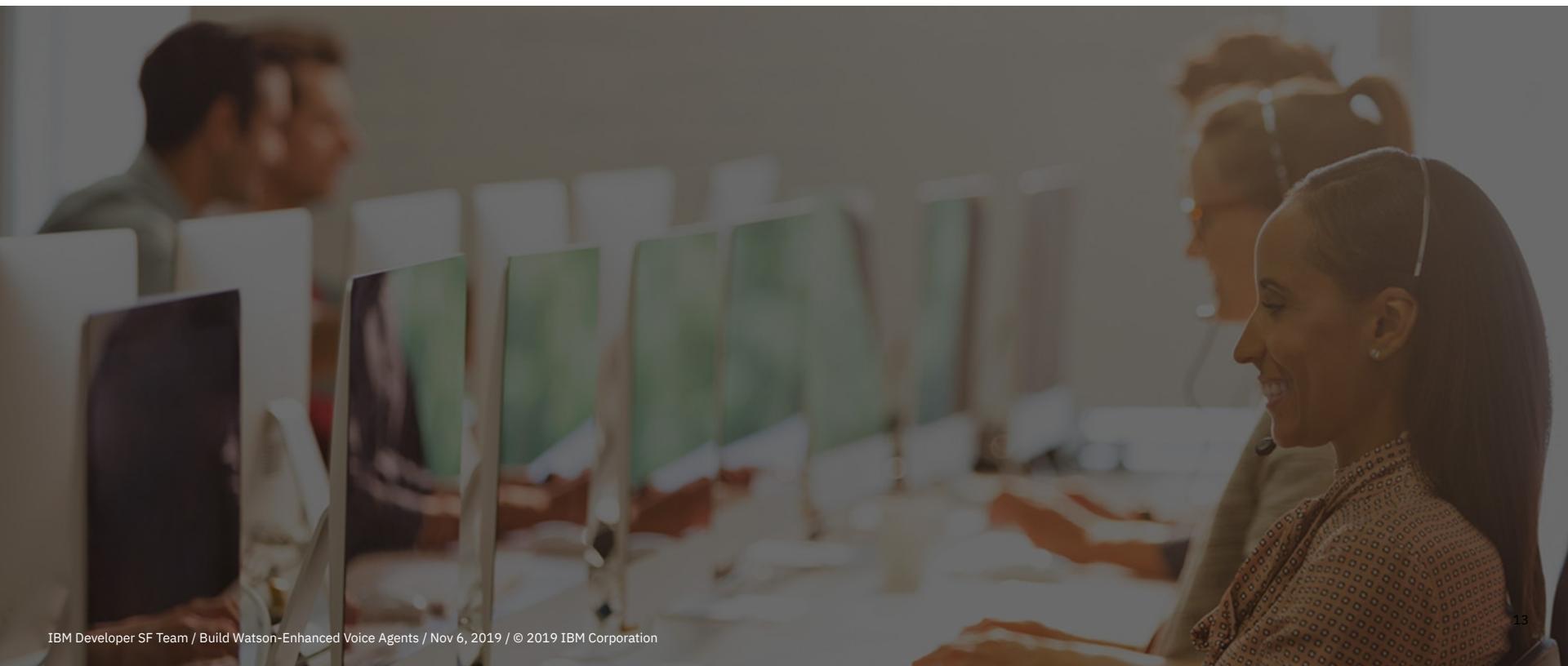
<https://nodered.org>



Node-RED

2. IBM Voice Agent with Watson

ibm.com/us-en/marketplace/voice-gateway/details



↳ Code Overview

↳ Instructions on GitHub

github.com/drnugent/watson-voice-agent



Watson/Nexmo Lab Setup

1. Sign up for IBM Cloud

ibm.biz/nexmo-workshop

2. Follow the lab instructions at

github.com/drnugent/watson-voice-agent

2a. Create your Node-RED Environment

2b. Sign up for Nexmo/Vonage & Create your Voice Application

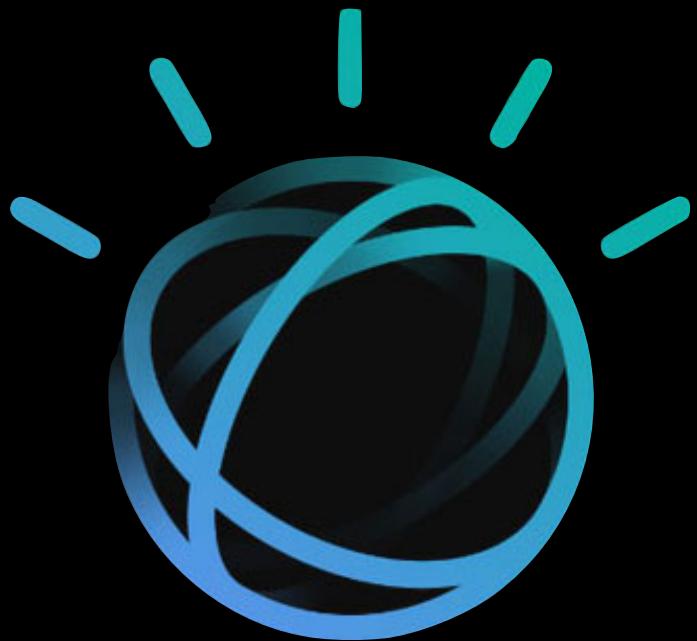
nexmo.com

2c. Set up your Watson Voice Agent

2d. Create your Node-RED Flow

2e. Test it out!

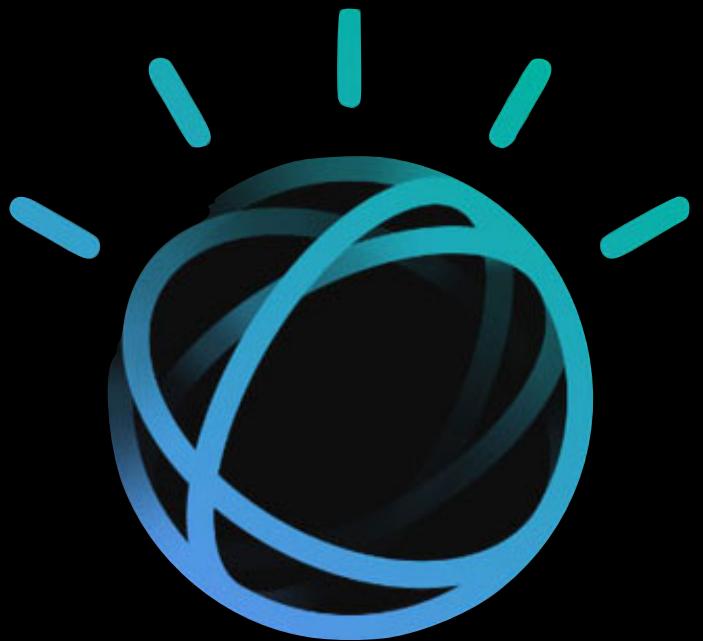
↳ Create Watson Services



↳ Create your Nexmo Application & Number



↳ Run the Project



nexmo

Digital Developer Conference

AI & Cloud

IBM Developer

IBM

Online Conference

Digital Developer Conference: AI & Cloud

Nov 2 - North America | Nov 9 - India | Nov 14 - Europe | Nov 23 - Asia

	Cloud Native Development Track	Machine Learning Development Track
12:00 - 12:20	Keynote 1: Containerized Workloads on the IBM Cloud	Keynote 1: Explainable, Fair, Accurate, and Open AI in the Enterprise
12:20 - 12:40	Keynote 2: Multicloud management of applications	Keynote 2: Learn more from Less: Latest from IBM Research in AI and Deep Learning
12:40 - 12:55		Lab: IBM Cloud account setup and IKS cluster creation
01:00 - 01:40	Breakout 1: Microservices in practice	Breakout 1: AI behind the US Open, Wimbledon, Masters, and ESPN Fantasy Football
01:40 - 02:20	Breakout 2: Kabanero: open source tools to accelerate container-based application development and deployment	Breakout 2: Deploy State of the Art Deep Learning Models in under an Hour
02:20 - 03:00	Breakout 3: DevSecOps: putting security in DevOps	Breakout 3: Tools for Machine Learning w/Kubernetes using Open Source
03:00 - 04:00	Lab: Hands-on with Kubernetes	Lab: Evaluating Models for Bias
Badges	App Modernization Basics	IBM Machine Learning

Register now
ibm.biz/digitaldevcon



Build Smart



Thursday, November 7

Lunch and Learn: Kubernetes Workshop with OpenShift

Monday, November 11

Think Build Grow: Build with IBM Watson and IBM Cloud

Wednesday, November 13

Online Meetup: Designing Your Neural Networks - A Step By Step Walkthrough

ibm.biz/bayareaevents

Part of **IBM Developer** – 34 groups [?](#)

IBM Developer SF Bay Area



San Francisco, CA



7,619 members · Public group [?](#)



Organized by Angie K and 6 others

IBM Partners

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and tech companies for growth

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- New to IBM Cloud
- Startups who aspire to build and sell their own solutions

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Questions?

And maybe, if we are lucky
and the stars align:
answers!

