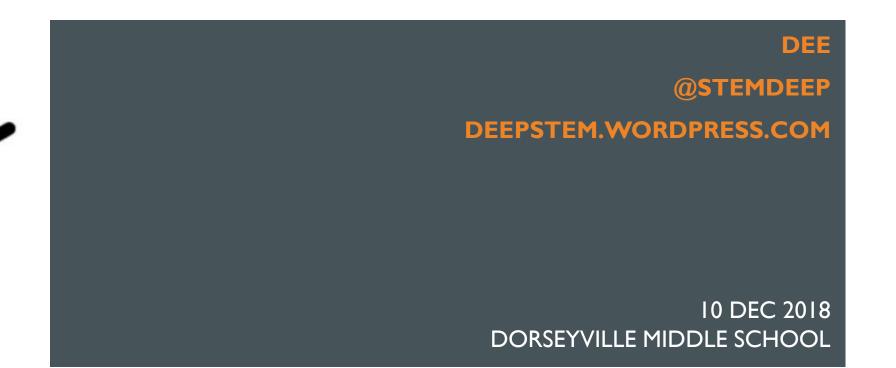


AN IBM VOLUNTEERS ACTIVITY



TODAY'S SESSION

By 2020, 85% of all customer interactions will be handled without a human agent. What are the social implications for chatbots and how can we ensure they promote social good?

- What is a chatbot
- How artificial intelligence is changing how we interact with computers
- Converse with a food coach bot
- Analyze music lyrics to understand empathy in lyrics
- How to build your own chatbot

Bring your iPads!

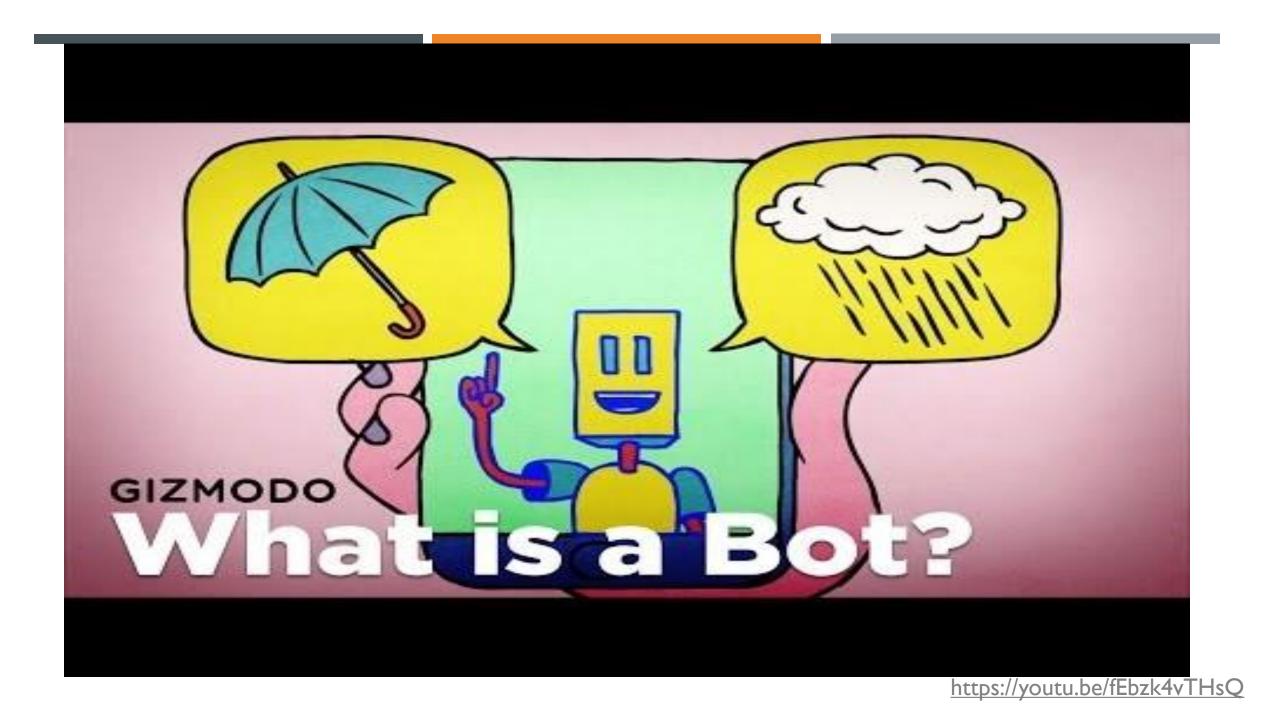
LET'S GET TO KNOW EACH OTHER!

Introductions

- Your Name
- •Your Grade
- A word or phrase you associate with Artificial Intelligence

WHAT IS A CHATBOT?

- Computer application or program that simulates human conversation
- Examples of chatbots
 - Siri, Alexa, Google, Bixby, Cortana, ...
- Who has done programming?
 - Aspects of Traditional Programming
- What's different with how you interact with a chatbot?



Play with the Food Coach chatbot

Let's interact with a chatbot to see how one would work in a real life scenario.

This chatbot helps answer questions from someone who might be feeling sad or anxious.

When the chatbot asks you whether you had a meal, say "**No**." Press Enter after you enter this text.

When the chatbot asks you how you feel about skipping a meal, say "**Sad**."

Notice that the chatbot says something like "I detected sadness."

The chatbot can say that because it's using the IBM Watson Conversation and Tone Analyzer services. The Tone Analyzer service analyzes tones and emotions in written text. For example, if you want your chatbot to know that the user isn't happy or is stressed out by something, the Tone Analyzer can help your chatbot respond in the right way.

Click to restart the Food Coach. As you keep playing see if you can get it to detect these emotions: Anger, Disgust, Fear, Joy, Sadness This is a simple conversation to demonstrate how a user's emotional tone can be used to provide more tailored and empathetic responses by integrating Watson Assistant and Watson Tone Analyzer. If you get stuck, type 'help'.

Did you have lunch yet?



https://food-coach.ng.bluemix.net/

A professor built an AI bot to make teaching easier. Will it replace him someday?

By Amy X. Wang • May 19, 2016



https://qz.com/688048/a-professor-built-an-ai-bot-to-make-teaching-easier-will-it-replace-him-someday/



"Fries with that"

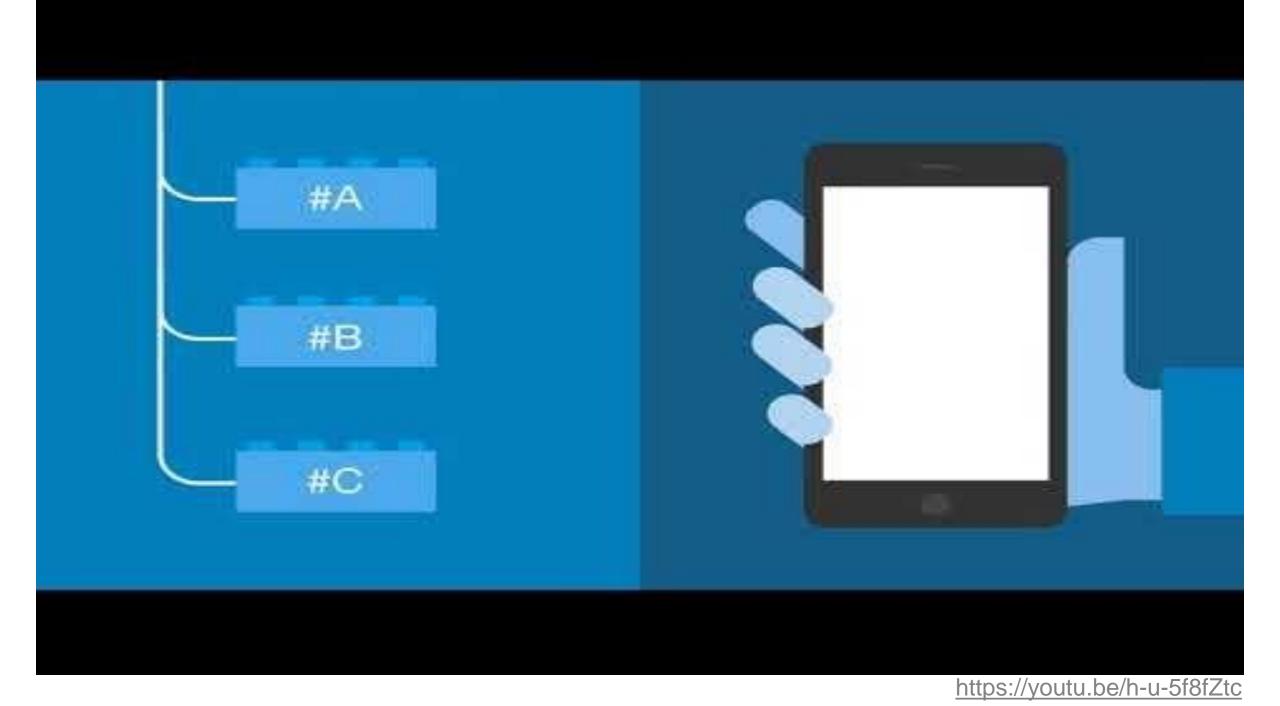
Do you want fries with your meal?

Or

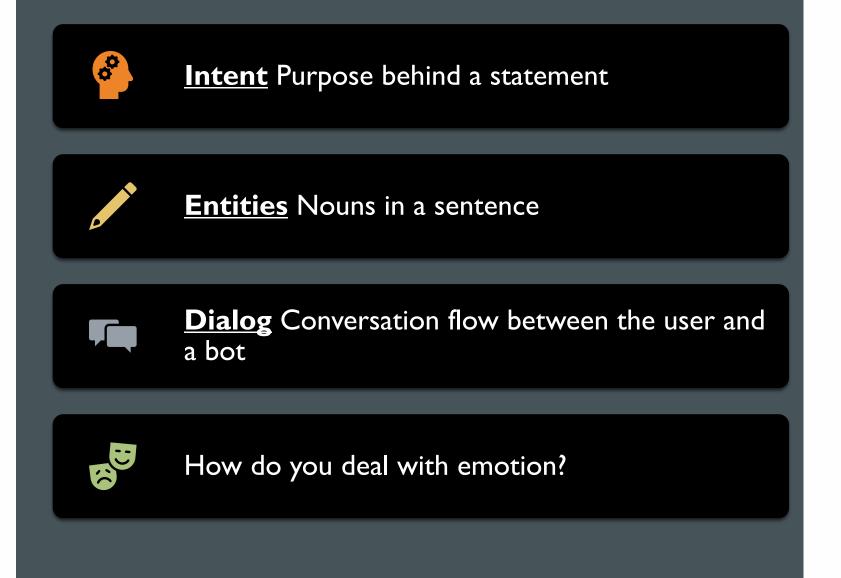
Fries come with your meal

BUILDING BLOCKS OF A CONVERSATION





BUILDING BLOCKS OF A CONVERSATION



Tone / ID	Description
Anger anger	Anger is evoked due to injustice, conflict, humiliation, negligence, or betrayal. If anger is active, the individual attacks the target, verbally or physically. If anger is passive, the person silently sulks and feels tension and hostility. (An emotional tone.)
Fear fear	Fear is a response to impending danger. It is a survival mechanism that is triggered as a reaction to some negative stimulus. Fear can be a mild caution or an extreme phobia. (An emotional tone.)
Joy joy	Joy (or happiness) has shades of enjoyment, satisfaction, and pleasure. Joy brings a sense of well-being, inner peace, love, safety, and contentment. (An emotional tone.)
Sadness sadness	Sadness indicates a feeling of loss and disadvantage. When a person is quiet, less energetic, and withdrawn, it can be inferred that they feel sadness. (An emotional tone.)
Analytical analytical	An analytical tone indicates a person's reasoning and analytical attitude about things. An analytical person might be perceived as intellectual, rational, systematic, emotionless, or impersonal. (A language tone.)
Confident confident	A confident tone indicates a person's degree of certainty. A confident person might be perceived as assured, collected, hopeful, or egotistical. (A language tone.)
Tentative tentative	A tentative tone indicates a person's degree of inhibition. A tentative person might be perceived as questionable, doubtful, or debatable. (A language tone.)

TONE ANALYSIS

https://console.bluemix.net/docs/services/tone-analyzer/index.html#about

MUSIC LYRICS



Everybody's free to feel good Everybody's free to feel good You're gonna go through things you don't deserve And it's gonna hurt like an open nerve So just know your soul's as old as earth And whatever you do, don't be told its worth Being strong feels exactly the same as being weak The difference is you don't quit Not until you reach the peak I believe in the mean of the spoken word It's more than a speech to speak It's what I feel when I'm sitting in your presence The answers are written in your essence It's all a test to see if you're made for it So go for it, you can't wait for it Cause you've got a destiny with your name on it

WATSON TONE ANALYZER

- <u>https://deepstem.wordpress.com/events/chatbots/</u>
- Open Tone Analyzer
- Select "Your Own Text"
- Copy and Paste Lyrics
- Click Analyze

Chatbots

Tone Analyzer https://tone-analyzer-demo.ng.bluemix.net

Music Lyrics

Everybody's free to feel good Everybody's free to feel good You're gonna go through things you don't deserve And it's gonna hurt like an open nerve So just know your soul's as old as earth And whatever you do, don't be told its worth Being strong feels exactly the same as being weak The difference is you don't quit Not until you reach the peak I believe in the mean of the spoken word It's more than a speech to speak It's what I feel when I'm sitting in your presence The answers are written in your essence It's all a test to see if you're made for it So go for it, you can't wait for it Cause you've got a destiny with your name on it

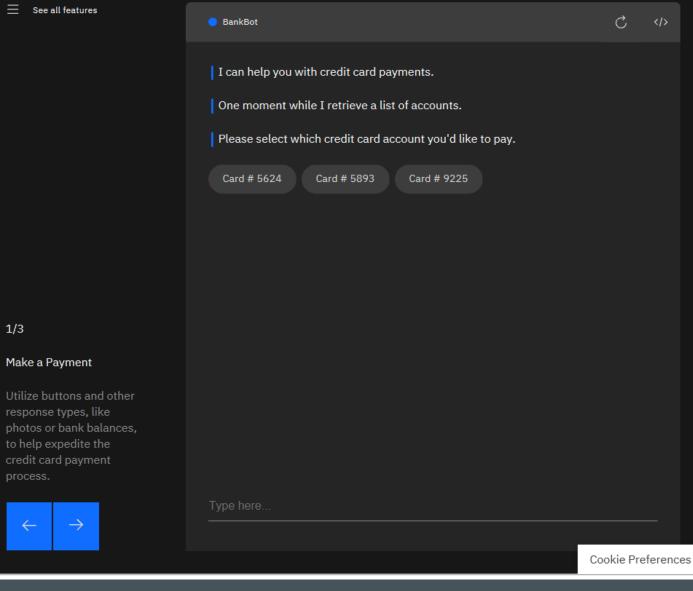
BANKING ASSISTANT

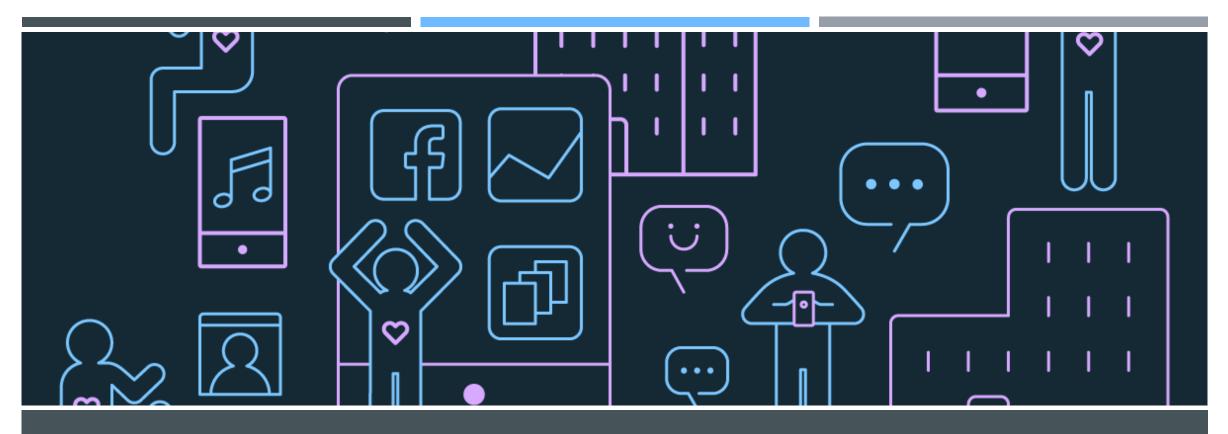
https://conversation-demo.ng.bluemix.net/

See all features

1/3

Make a Payment





BOTS FOR THE GREATER GOOD: 6 CHATBOTS MAKING THE WORLD A BETTER PLACE

https://www.ibm.com/blogs/watson/2017/06/bots-for-good-6-helpful-chatbots/

Chatbots for Good: Introduction to empathetic chatbots



Course overview

+ Design thinking

+ Art of Conversation

+ Create your own Chatbot

Science of Tone and Em

+ Quiz time

Start course \rightarrow

Your Mission:

Be a champion for compassion and build a chatbot

Imagine if you could build a chatbot that understands how someone is feeling. Your chatbot could play music or make suggestions to help them feel happier. During this mission, you will:

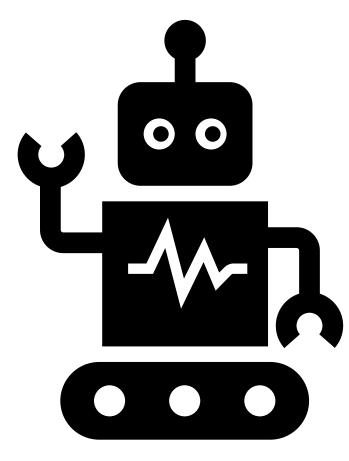
- Learn how to design a dialog for your specific users by using Design Thinking
- Play with a chatbot and learn about the three basic components of Watson Assistant: intents, entities, and dialog
- Analyze tone and emotions in text by using Watson Tone Analyzer and brainstorm ways you can use the service to improve your chatbot

What you'll need:



HOW TO BUILD A CHATBOT

https://developer.ibm.com/courses/all/chatbots-for-good-empathetic-chatbots/



THANK YOU