Chat bots and virtual assistants Journal

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Abstract

I find the topic of chat bots and virtual assistants really cool. I will try to gather here some information found on the web.

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30.04.18 $\,\sim$ Chat bots: Tai, Xiaoice, Named entity recognition, A nice blog about NLP

It seems that some fairly advanced chatbots already exist:

Wiki: Xiaoice Wiki: Tay

01.05.18 \sim Google assistant, Dialogflow (API.AI), some french companies making chatbots

I discovered the company **Dialogflow** owned by google:

Wiki: Dialogflow

and also read about Google assitant:

Wiki: Goolge Assitant

I also discovered the following french companies/start-ups specialized in chatbots:

- Zelros: http://www.zelros.com/
- recast ai: https://recast.ai/
- golembot: http://golembot.net/

02.05.18 ~ A Coursera course to build your own bot

Roman recommended this course about NLP:

https://www.coursera.org/learn/language-processing

In the description of the course, they say that the final project consist in building your own chatbot.

09.01.19 ~ 5 levels of Chat bots

This page explains what are the 5 levels of chat bots. For now we are currently reaching level 3 (Google is at least):

https://www.oreilly.com/ideas/the-next-generation-of-ai-assistants-in-enterprise

01.01.19 $\,\sim$ Conversation One: The anatomy of a modern conversation application

Vijeta shared this link which gives an idea of concepts like **ontology** (which from my understanding comes down to the definition of intents and entities related to the domain), and how to implement a DM using the context:

https://conversation.one/2017/10/25/anatomy-modern-conversational-application/

06.01.19 \sim Rasa Core and Interactive learning

In this article:

https://blog.rasa.com/a-new-approach-to-conversational-software/ it is explained that Rasa developped a way to create a DM using "interractive learning" which is a kind of reinforcement learning with feedback at every message, to build a good probabilistic model. I guess that it is good for the intent classification. It seems to be quite easy to use.