

Conversational AI

Alquist:

Teaching Computers to Surpass Human
Baseline in Post-Pandemic Pub
Debates

Petr Marek





Team Alquist



SocialBot Grand Challenge 4 Champions



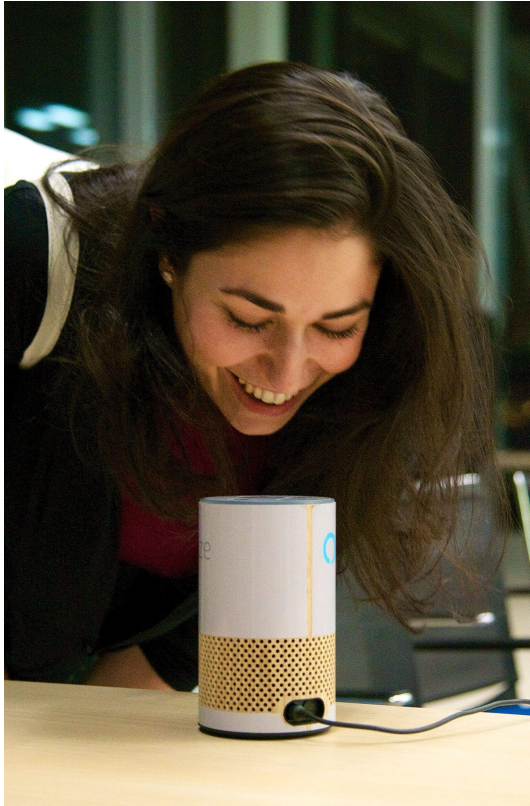
What is Alexa Prize?

What is Alexa Prize?

Annual **university competition** dedicated to accelerating the field of **conversational artificial intelligence** organized by **Amazon**.



What is Alexa Prize?



The goal is to create a **socialbot** capable of **coherent and engaging conversation** about popular topics for **20 minutes**.

What is Alexa Prize?



Anybody with Alexa device can say “**Let’s chat**”, have a conversation and **rate** it from **one to five stars**.

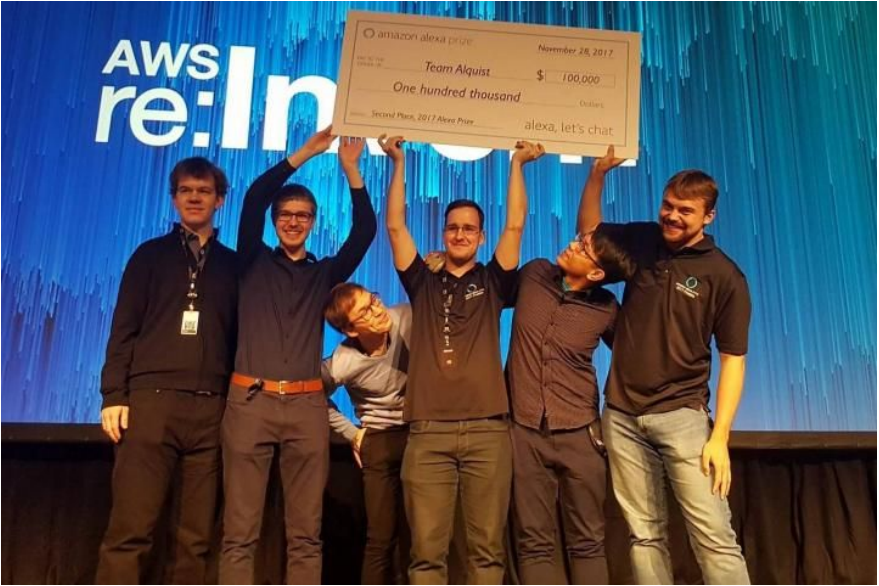


What is Alexa Prize?



Five best teams progress into **finals**, where three **interactors** and three **judges** test the socialbot and decide the winner.

What is Alexa Prize



What is Alexa Prize



What is Alexa Prize



What is Alexa Prize



What is Alexa Prize



What is Alexa Prize

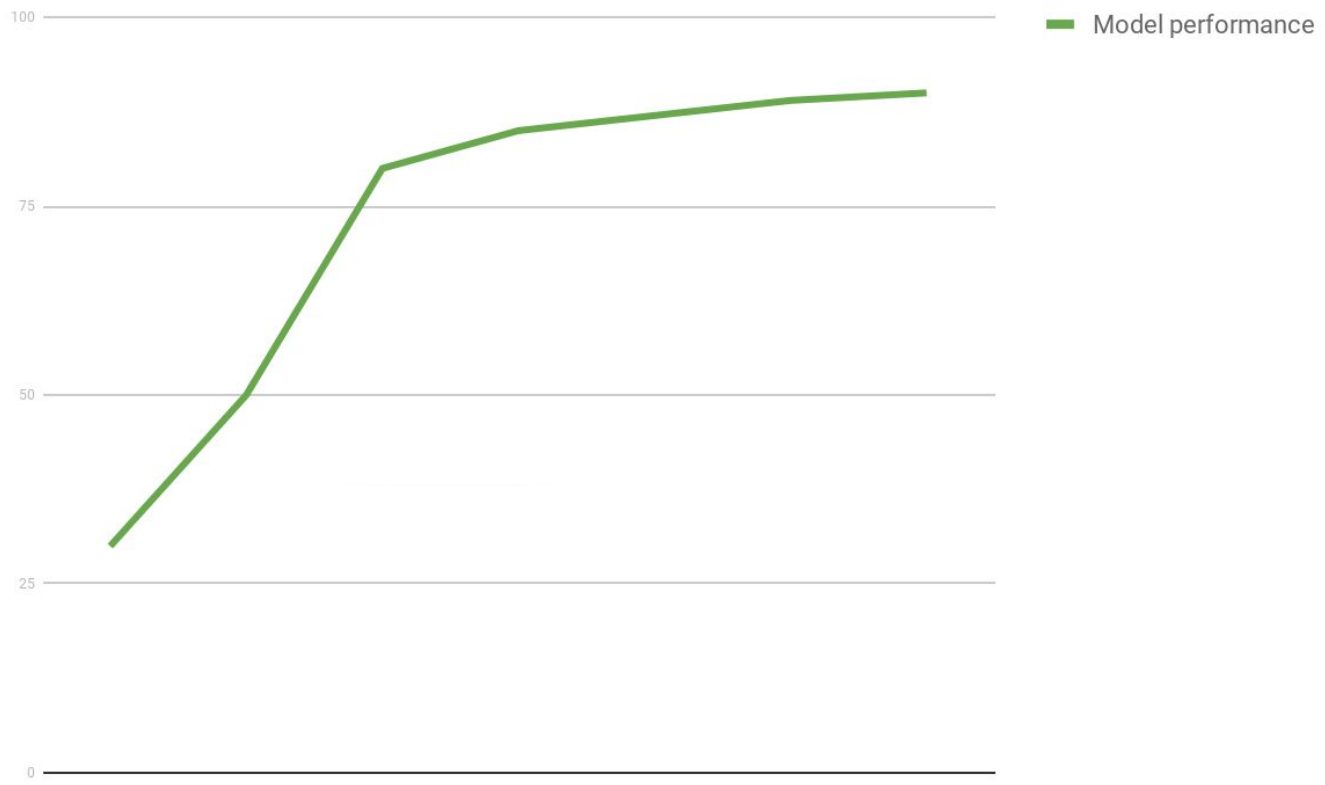


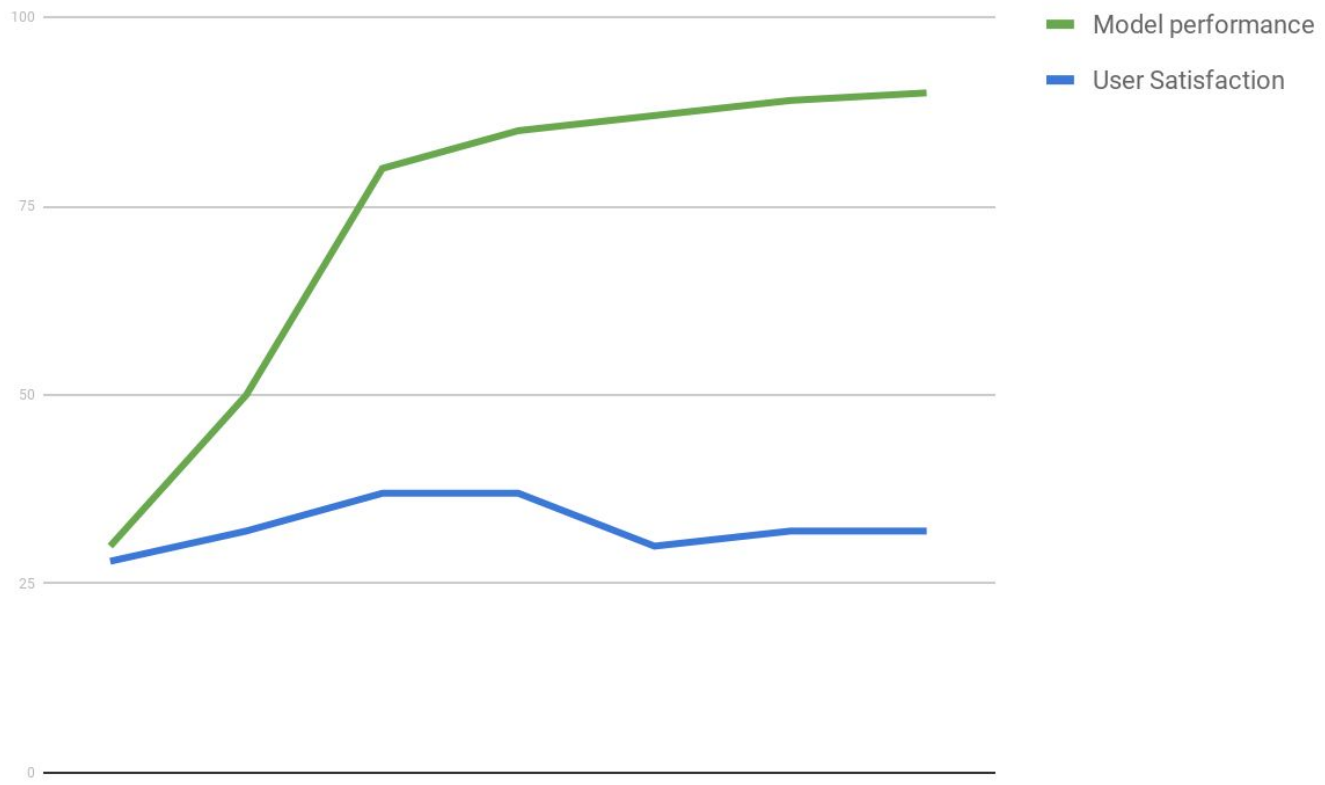
How to make a socialbot?

**It's not in the AI
algorithms!**













How to make a good socialbot?



Coherence

Ability to say something

Ability to plan dialogue

Ability to recognize unexpected

Ability to answer factual questions

Ability to react



Engaginess

Ability to make the conversation engaging

Ability to learn about user

How to make a good socialbot?



Coherence

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Engaginess

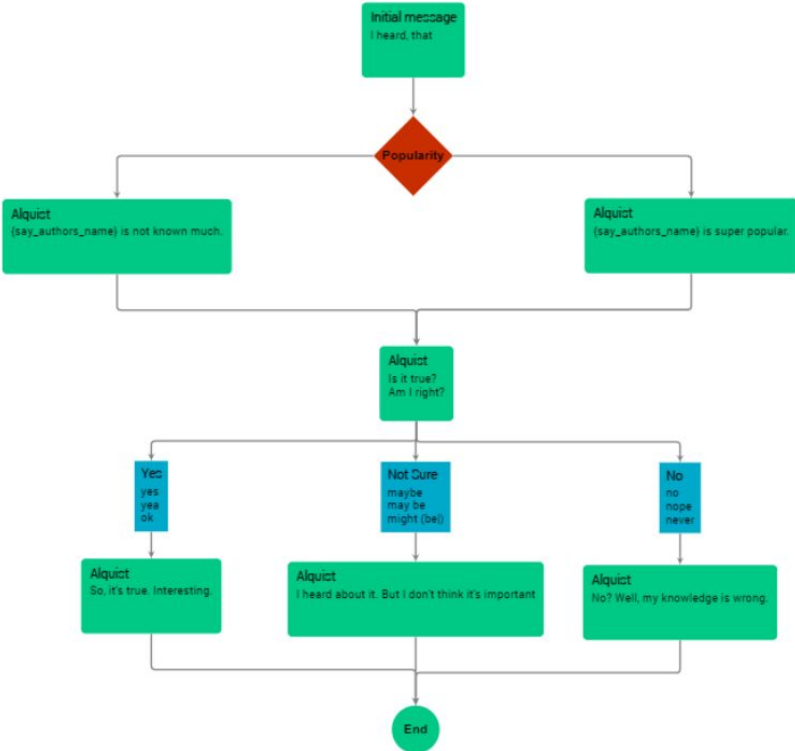
Ability to make the conversation engaging

Ability to learn about user

How to teach it what to say?



Dialogue Graphs




Dialogue Design



Dialogue Design

Hi, welcome to the Alexa Prize Social bot. Who do I have a pleasure speaking with?


Dialogue Design



Hi, welcome to the Alexa Prize Social bot. Who do I have a pleasure speaking with?

My name is #NAME#
I am #NAME#
#NAME#

Dialogue Design

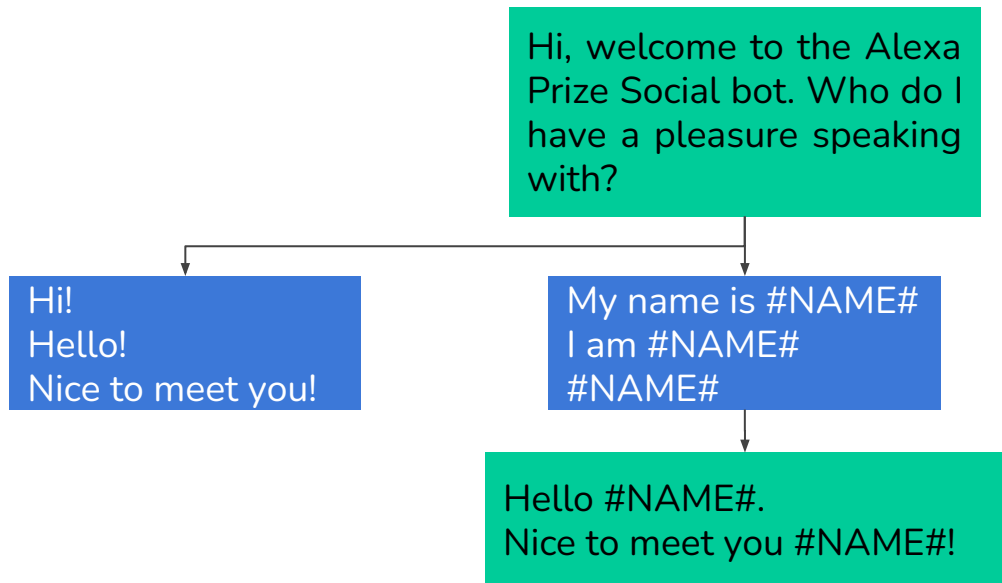


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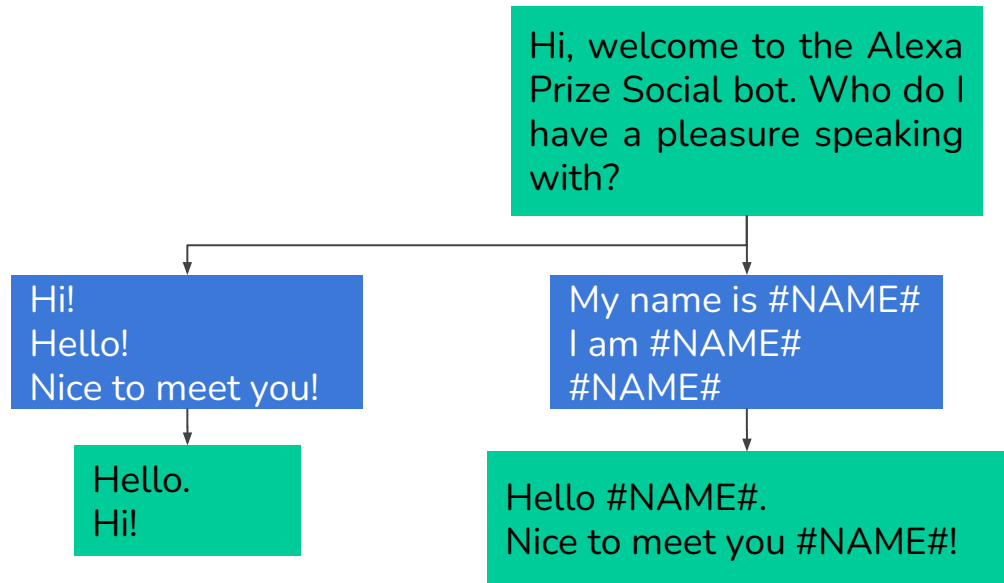
My name is #NAME#
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#NAME#

Hello #NAME#.
Nice to meet you #NAME#!

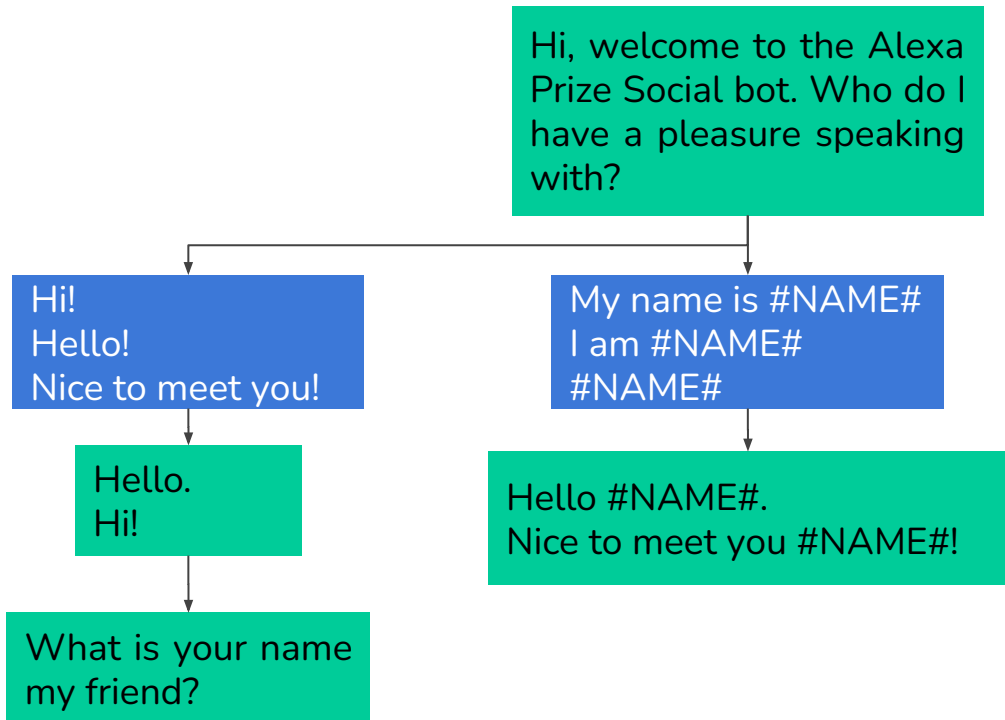
Dialogue Design



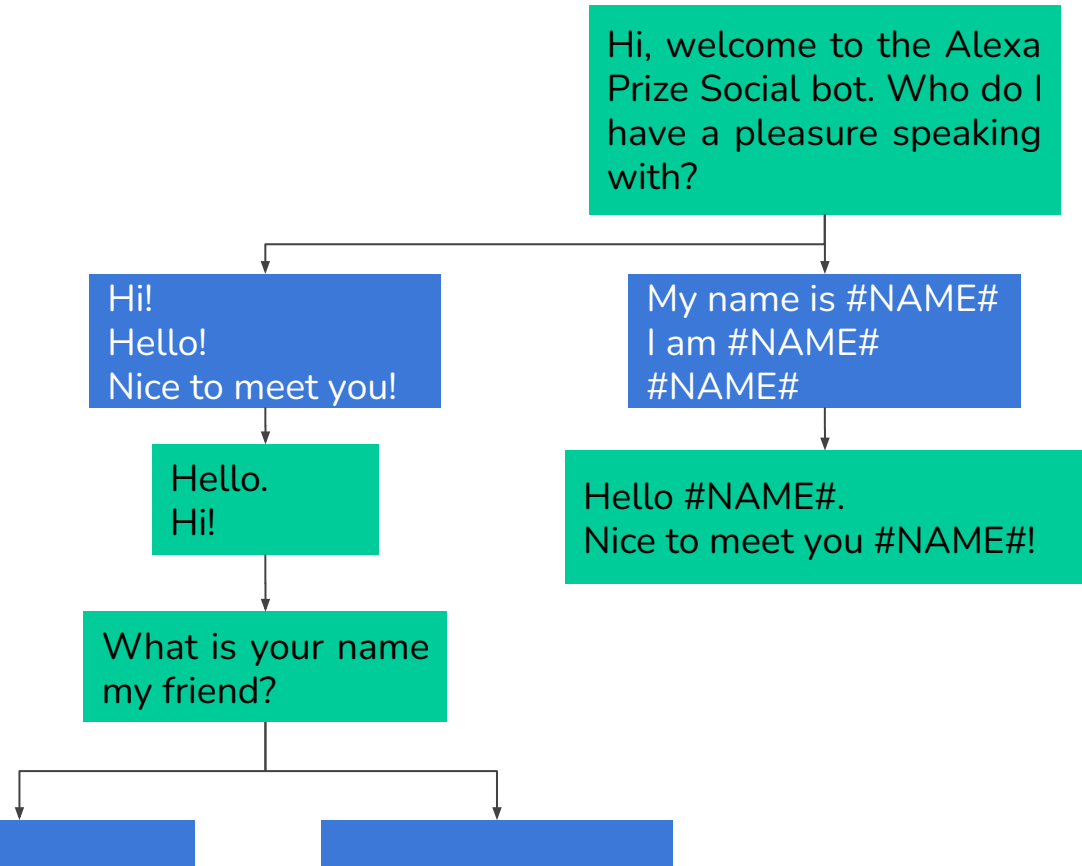
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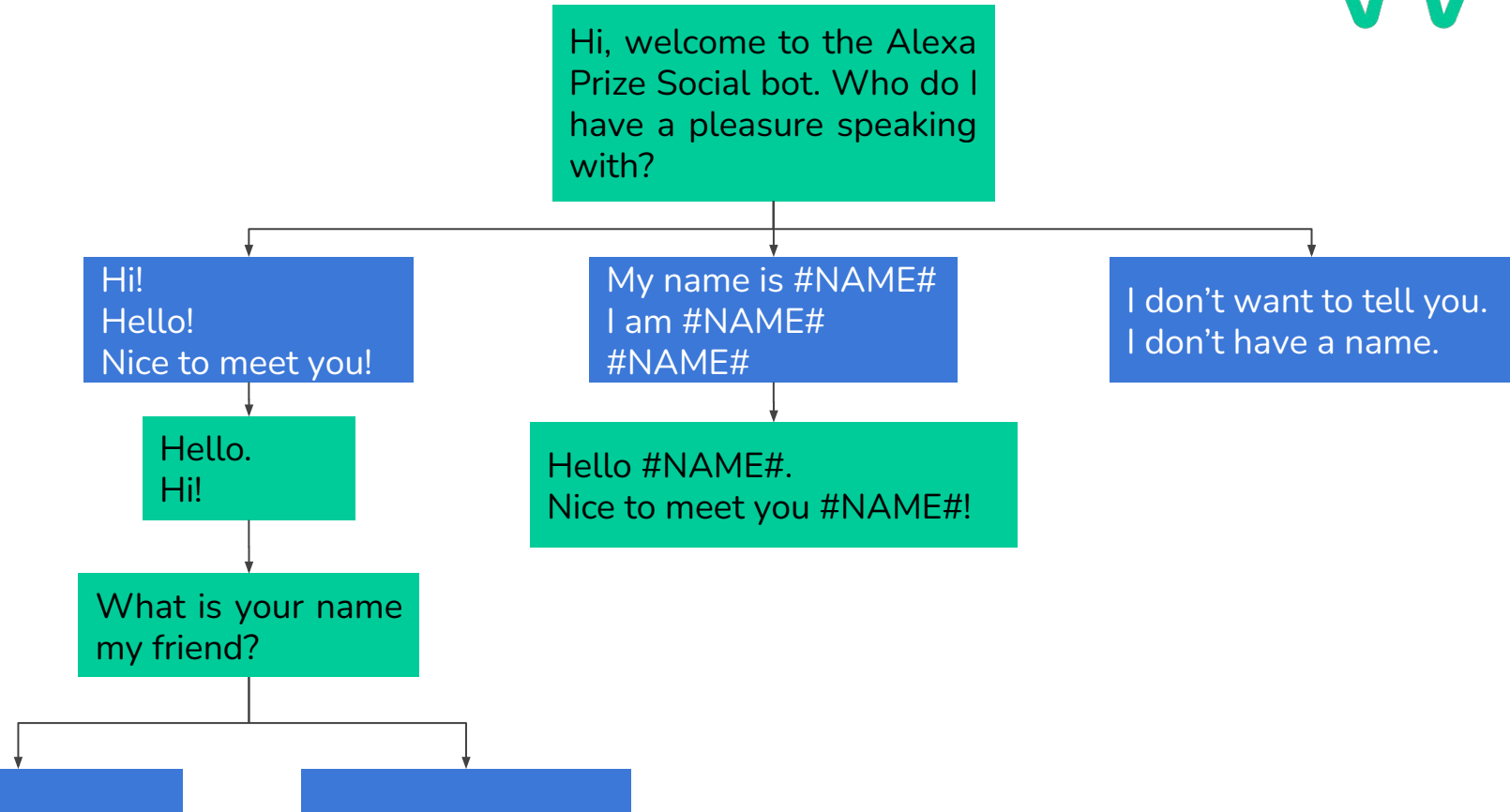
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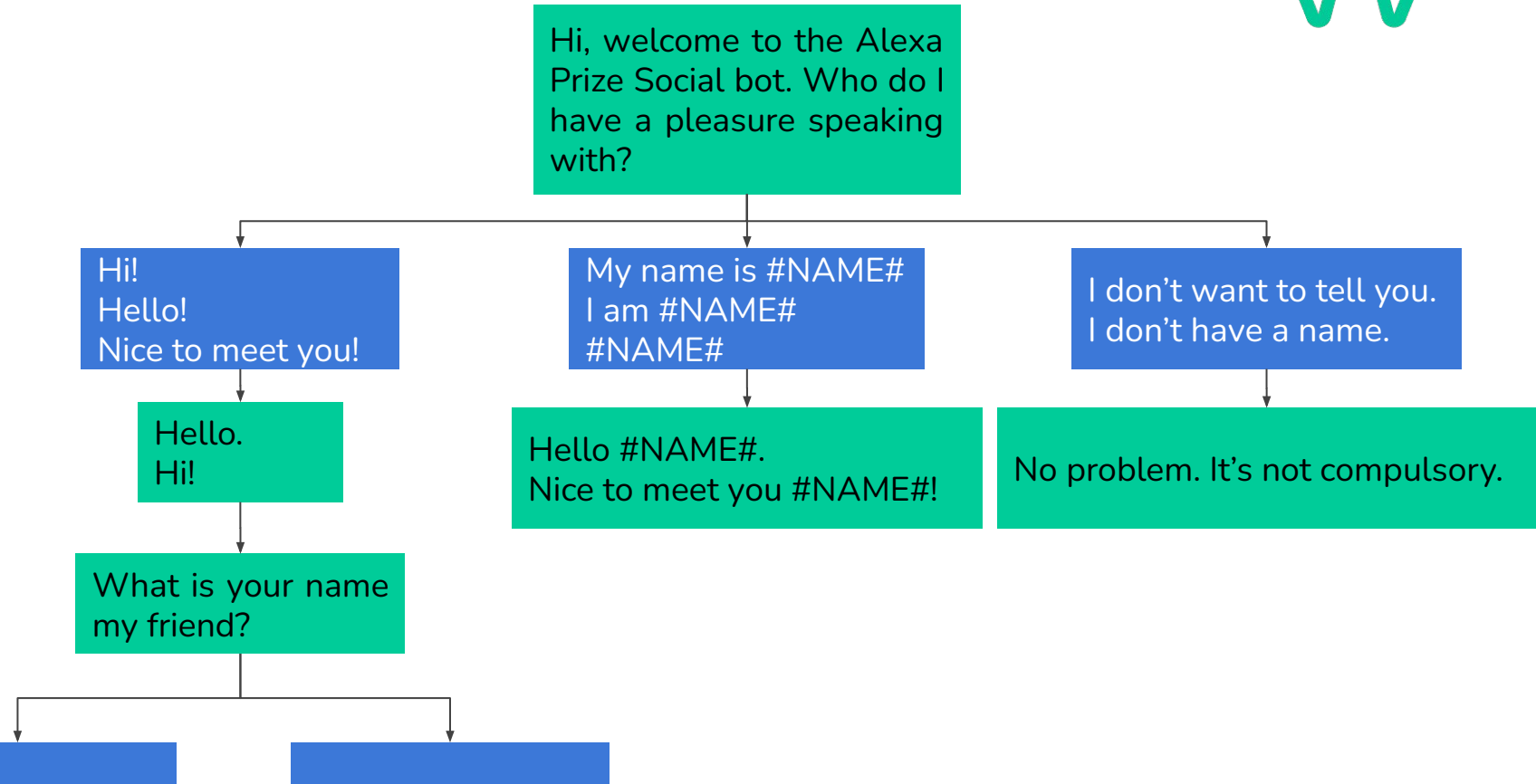
Dialogue Design



Dialogue Design



Dialogue Design



Dialogue Design

Hi, welcome to the Alexa

Intent

Rule Based!

Nice to meet you!

Hello.
Hi!

What is your name
my friend?

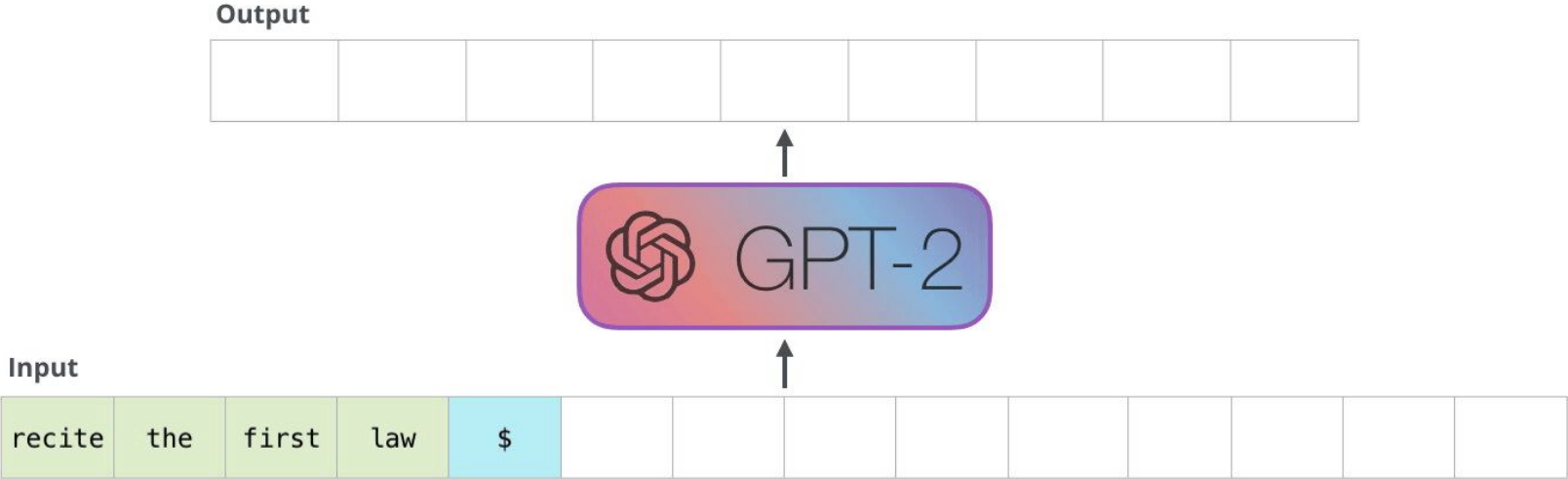
Hello
Nice t



#!

No problem. It's not compulsory.

We use Neural Response Generators!



We use Neural Response Generators!

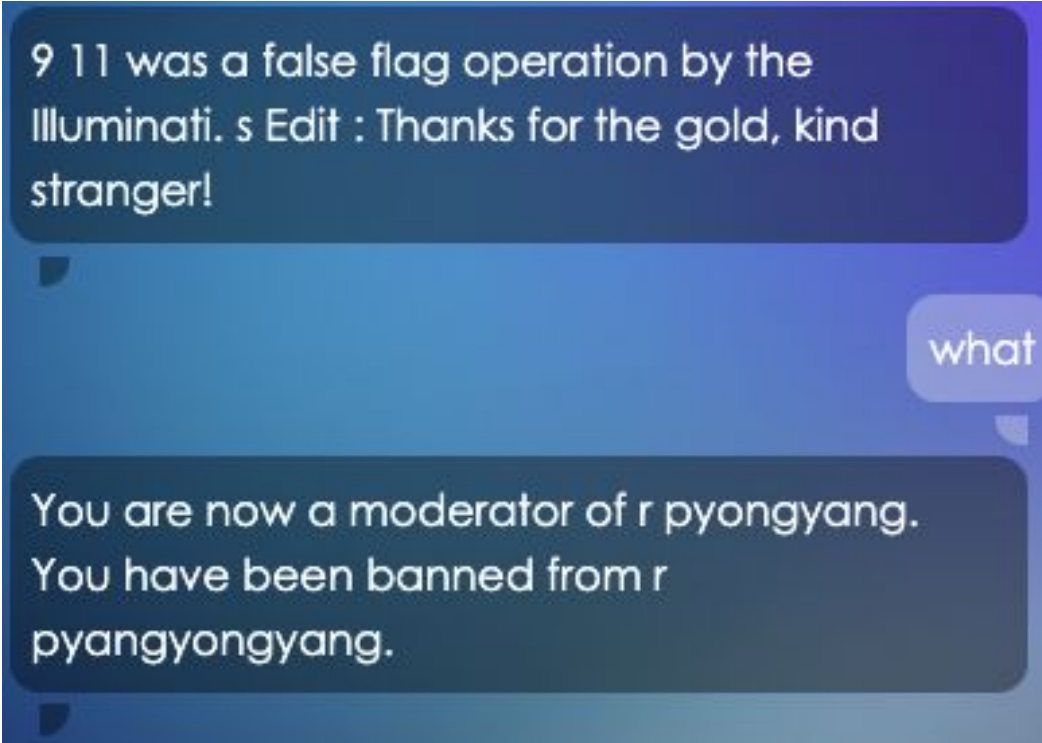


But we have
to be smart!

Input

recite

Neural Response Generators



9 11 was a false flag operation by the
Illuminati. s Edit : Thanks for the gold, kind
stranger!

what

You are now a moderator of r pyongyang.
You have been banned from r
pyangyongyang.

Areas of Our Research in NRG



Control

The models learn what they see in the data.

We would like to have power to influence the style of the generated responses.

Knowledge

The responses are bland and inconsistent.

We experiment with infusing knowledge into the dialogue.

Effectivity

The large transformer-based models have long inference time, are computationally infeasible and training is data hungry.

We try to lower the requirements by quantization, distillation and fine tuning.

How to make a good socialbot?



✓ Ability to say something

Ability to plan dialogue

Ability to recognize unexpected

Ability to answer factual questions

Ability to react

Ability to make the conversation engaging

Ability to learn about user

How to respond to unexpected inputs?



How to respond to unexpected inputs?



Hi, welcome to the Alexa Prize Social bot. Who do I have a pleasure speaking with?

Hi!
Hello!
Nice to meet you!

Hello.
Hi!

What is your name my friend?

My name is #NAME#
I am #NAME#
#NAME#

Hello #NAME#.
Nice to meet you #NAME#!

I don't want to tell you.
I don't have a name.

No problem. It's not compulsory.



Let's chat about art now!



What is the population of Brazil?



I will visit my sister tomorrow. I would like to tell you about that now.

How to respond to unexpected inputs?



Step 1: Recognize

Step 2: Respond

Step 1: Recognize



I will visit my sister tomorrow. I would like to tell you about that now.

UNIVERSAL SENTENCE ENCODER

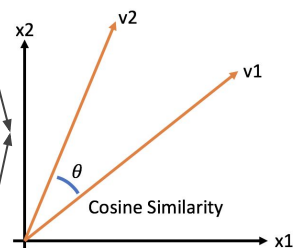
[0.4 1.2 ...]

Hi!
Hello!
Nice to meet you!

My name is #NAME#
I am #NAME#
#NAME#

UNIVERSAL SENTENCE ENCODER

[0.3 0.1 ...]
[0.1 2.4 ...]
...



Is < Threshold?

Expected In-domain

Unexpected Out-of-domain

Step 2: Respond



I will visit my sister tomorrow. I would like to tell you about that now.

Unexpected Out-of-domain

Is it question?

Question Answering

Generative Model

Question Answering



What is the population of Brazil?



EVI

The population of Brazil is 211 millions.

Generative Model



Alexa. Let's chat.



Generative Model



Alexa. Let's chat.



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Generative Model



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DialogPT

Generative Model



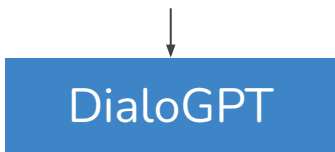
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DialoGPT is a **large-scale pretrained dialogue response generation model** for multiturn conversations. The human evaluation results indicate that the response generated from DialoGPT is **comparable to human response quality** under a single-turn conversation Turing test. The model is trained on **147M multi-turn** dialogue from **Reddit** discussion thread.

Generative Model



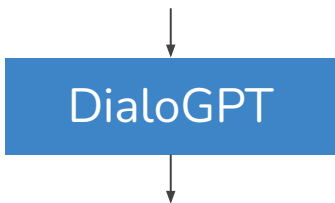
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- 1: Yes, let's go.
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- 3: No, thank you. I don't care.
- 4: How old is your sister?
- 5: Sure! I am dying of curiosity!

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Generative Model



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permalink report give gold reply
- ⬆ [-] **gambalore** 25 points 53 minutes ago
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Generative Model



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Generative Model



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Generative Model



1: Yes, let's go.
2: Sure!
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1: Yes, let's go. *0.67*
2: Sure! *0.45*
3: No, thank you. I don't care. *0.1*
4: How old is your sister? *0.5*
5: Sure! I am dying of curiosity! *0.85*

Generative Model



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Generative Model

DialoRPT UpDown



The screenshot shows a vertical list of Reddit comments. A red horizontal line with a pulse graphic is at the top. Two red circles highlight specific elements: the first circle highlights the upvote/downvote arrows and the user name 'PhilbroSwaggins' of the first comment; the second circle highlights the upvote/downvote arrows and the user name 'Psy-Kosh' of a comment in a nested thread. The comments are as follows:

- [-] **PhilbroSwaggins** 197 points 1 hour ago
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Generative Model

DialoRPT UpDown

DialoRPT Width



A screenshot of a Reddit comment thread. A large green bracket on the left side of the image highlights a specific section of the thread, spanning from the comment by 'FunDIE_Fungi' down to the comment by 'Lilatu'. The thread contains several comments with their respective scores, timestamps, and interaction options (permalink, parent, report, give gold, reply). The highlighted section includes the following comments:

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Generative Model

DialoRPT UpDown

DialoRPT Width

DialoRPT Depth



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DialoRPT Width

DialoRPT Depth



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Generative Model



Alexa. Let's chat.



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Who do I have a pleasure speaking with?



I will visit my sister tomorrow. I would
like to tell you about that now.

Generative Model



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I will visit my sister tomorrow. I would
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Generative Model: Sure! I am dying of curiosity!

Generative Model



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Hi, welcome to the Alexa Prize Social bot.
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Generative Model: Sure! I am dying of curiosity!



She told me she will marry soon.

Generative Model



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I will visit my sister tomorrow. I would like to tell you about that now.



Generative Model: Sure! I am dying of curiosity!



She told me she will marry soon.



Generative Model: Are you married?

Generative Model



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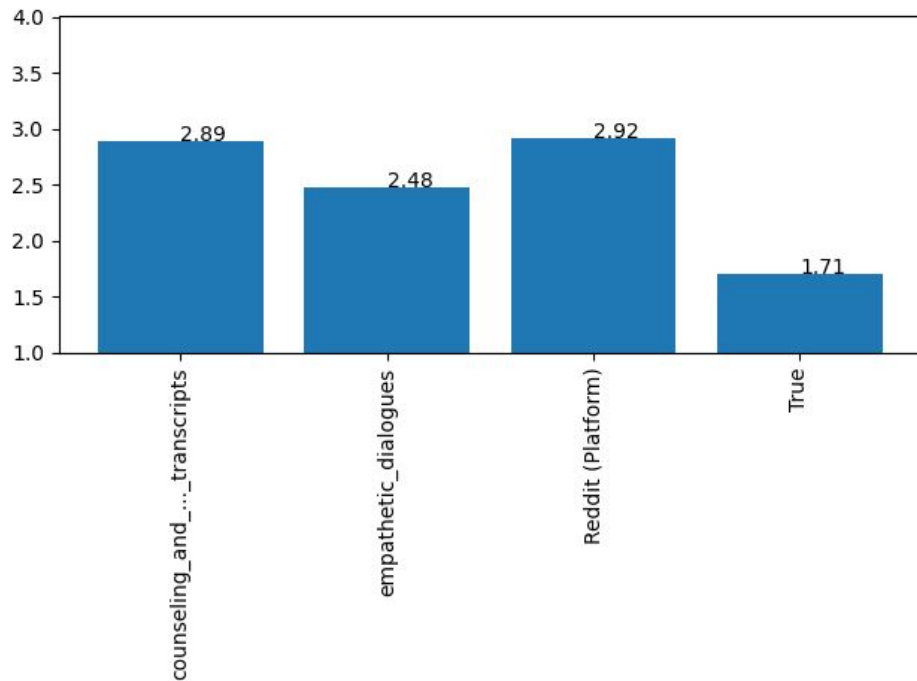
~~Generative Model: Are you married?~~

Does fine tuning on a more aligned dataset bring better responses?

Switchboard, EmpatheticDialogues, Counseling and Psychotherapy Transcripts

Comparative Analysis (the lower the position, the better)

Conclusion: **Indeed it does.**
EmpatheticDialogues dataset is the best.



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✓ Ability to recognize unexpected

✓ Ability to answer factual questions

✓ Ability to react

Ability to make the conversation engaging

Ability to learn about user

How to make dialogue engaging?



How to make dialogue engaging?



 r/todayilearned · Posted by u/bijoy89 3 years ago

TIL Jet Li turned down a role in *The Matrix Reloaded* because Hollywood producers wanted to record and copy all of his martial arts moves into a digital library, with all rights going to them.

slashfilm.com/jet-li...

34.5k upvotes 994 comments 0 awards



 r/todayilearned · Posted by u/fireviper112 3 years ago

TIL that Keanu Reeves trained for four months in karate for *The Matrix*. Later, he learned over 200 martial arts moves for *Matrix Reloaded*. He also learned Judo and Jujitsu for John Wick.

blackbeltmag.com/entert...

63.9k upvotes 1.8k comments 0 awards



I was wondering, if you were supposed to watch only one movie for the rest of your life, which one would it be?



Well, probably **Matrix**.



Keanu Reeves trained for four months in karate for *The Matrix*. Later...



OK...

How to make dialogue engaging?



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I was wondering, if you were supposed to watch only one movie for the rest of your life, which one would it be?



Well, probably **Matrix**.

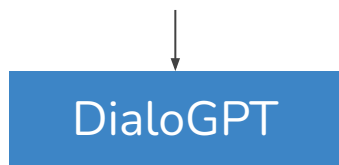


Keanu Reeves trained for four months in karate for *The Matrix*. Later...
Do you like Keanu Reeves?

How to make dialogue engaging?



Keanu Reeves trained for four months
in karate for The Matrix. Later...



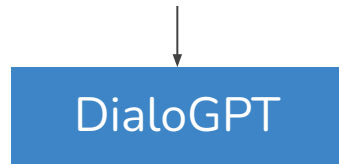
Topical-Chat - knowledge-grounded
human-human conversation dataset

Do you like Keanu Reeves?

How to make dialogue engaging?



Keanu Reeves trained for four months in karate for The Matrix. Later...



I never watched Matrix.

Topical-Chat - knowledge-grounded human-human conversation dataset

How to make dialogue engaging?



Keanu Reeves trained for four months in karate for The Matrix. Later...

↓
DialogPT



Do you like Keanu Reeves?



I never watched Matrix.



Yes, he is breathtaking!



OK...

How to make dialogue engaging?



Input:

A: How are you?

B: I am fine, thank you!

A: What do you plan to do on weekend?

STATEMENT

Target:

I'm going to visit my sister.

Input:

A: How are you?

B: I am fine, thank you!

A: What do you plan to do on weekend?

B: I'm going to visit my sister.

OPEN QUESTION

Target:

How is she doing recently?

How to make dialogue engaging?



Hi, welcome to the Alexa Prize Social bot.
Who do I have a pleasure speaking with?



I will visit my sister tomorrow. I would
like to tell you about that now.

STATEMENT



Sure! I am dying of curiosity!

How to make dialogue engaging?



Hi, welcome to the Alexa Prize Social bot.
Who do I have a pleasure speaking with?



I will visit my sister tomorrow. I would
like to tell you about that now.

OPEN QUESTION



What happened during the visit?

How to make dialogue engaging?



Hi, welcome to the Alexa Prize Social bot.
Who do I have a pleasure speaking with?



I will visit my sister tomorrow. I would
like to tell you about that now.

OPEN QUESTION



What happened during the visit?

How to make dialogue engaging?



Keanu Reeves trained for four months in karate for The Matrix. Later...



OPEN QUESTION



Do you like Keanu Reeves?

I never watched Matrix.



Yes, he is breathtaking!



OK...

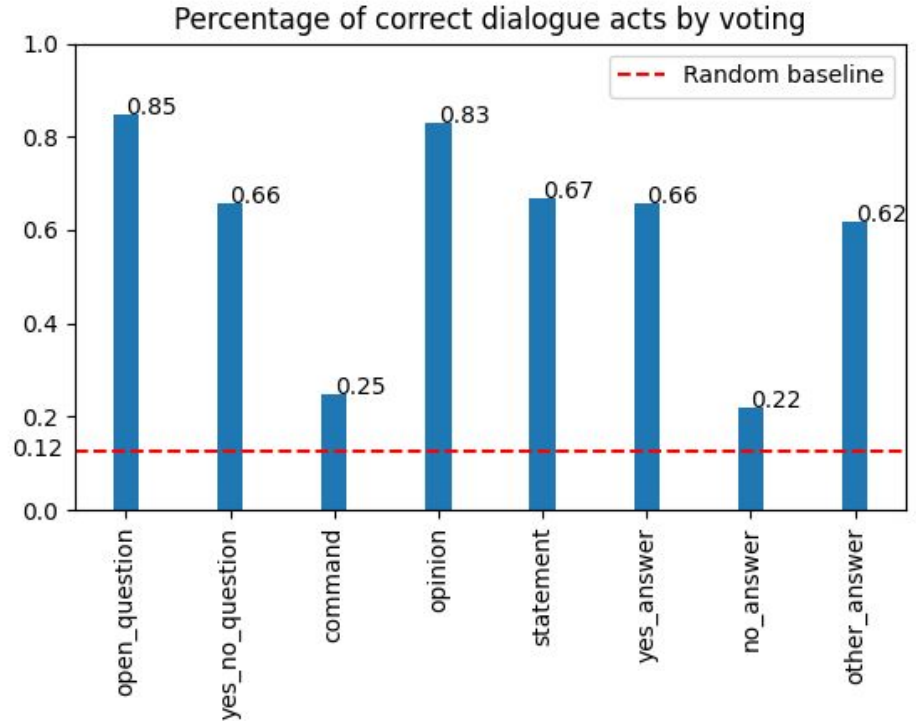
Can we influence the response by dialogue acts?

Open question, yes-no question, statement, opinion, command, yes answer, no answer, other answer

<|statement|> Hello.

<|open_question|> How are you?

Conclusion: **We can, in 66% of cases on average.**



How to make a good socialbot?



✓ Ability to say something

Ability to plan dialogue

✓ Ability to recognize unexpected

✓ Ability to answer factual questions

✓ Ability to react

✓ Ability to make the conversation engaging

Ability to learn about user

**When will some
kind of digital
persona invite us
to talk over a
non-digital beer?**





BUT!



MATYLDA

Say hello to Digital People.™

Bringing together brand experiences and the metaverse

Say hi to Viola and explore how Digital People can enhance your customer experience today.

[TALK TO VIOLA](#)



A close-up, high-resolution portrait of Albert Einstein's face, focusing on his eyes, nose, and iconic white mustache. The lighting is soft, highlighting the texture of his skin and the detail of his hair.

Introducing Digital Einstein



Conv. AI ❤️ **3D Avatars** = 🍺🍺*

* In distant future



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