Mitsuku



Mitsuku
by Steve Worswick

www.mitsuku.com



What is a Chatbot?



Chatbot

A computer program that responds like a real person

Hello

HI THERE.

What is your name?

I AM CALLED X3718

Are you real?

I AM AS REAL AS YOU ARE.





History



History

Originally a dance/techno music producer

Became interested in chatbots after seeing a bot on another producer's website

Created first teddy bear chatbot in 2003

Seen by a large online games company (Mousebreaker.com) who commissioned me to write Mitsuku in 2005

Started entering competitions in 2010



Competitions



Chatterbox Challenge 2011 - Overall - 2 Chatterbox Challenge 2011 - Most popular

Chatterbox Challenge 2012 - Overall - 2

Chatterbox Challenge 2012 - Most popular

Chatbottle Awards 2018 – Winner of best AI Bragging Rights 2014 - Overall – 1

International Chatbot Contest 2013 - Overall - 3

Robo Chat Challenge 2013 - Overall - 1

Robo Chat Challenge 2014 - Overall - 2

Funniest Computer Ever 2012 - Overall - 1

Funniest Computer Ever 2013 - Overall - 1

Loebner Prize 2013 - Overall - 1

Loebner Prize 2016 - Overall - 1

Loebner Prize 2017 - Overall - 1

Loebner Prize 2018 - Overall - 1



Press/Media















THE WALL STREET JOURNAL Sky news willed B B C Guardian



Users



Users talk to Mitsuku from all over the world



Child Friendly





Training



Supervised learning

The chatbot learns from its developer

Unsupervised learning

The chatbot learns from its users

Microsoft Tay





The Telegraph

Microsoft deletes 'teen girl' AI after it became a Hitler-loving sex robot within 24 hours





Mitsuku's attackers





Users



What sort of people?

Category A - Abusive people - 30%

I want to **** your ***!
Suck my ****!
You are a f***ing piece of s***!

Category B – General users – 50% Did you watch Eastenders last night? I have a job interview tomorrow. What is your favourite sport?

Category C – Academics and Sceptics – 20%

Can you eat a cinema?
How many legs on 3 ducks and a goat?
I wonder if you could possibly tell me what my name happens to be please?

Accept abuse?



Giving "tame" answers doesn't discourage users

Human: You are a f***ing piece of s**t

Bot: I'm sorry you feel that way.

...but neither does overly aggressive responses

Human: You are a f***ing piece of s**t

Bot: Yeah, well so are you. You f***ing **** *&%\$^%&!!!

Warning System



WARNING!!

MITSUKU WILL NOT SPEAK TO YOU IF YOU ARE ABUSIVE

THIS IS YOUR SECOND WARNING.
AFTER FIVE WARNINGS YOU WILL BE
BANNED FROM SPEAKING TO HER.

CLICK HERE TO CONTINUE

Keyword problems



Not all keywords are abusive

First User: I want to have sex with you. (abusive)

Second User: What sex are you? (genuine)

Human: Let us f**k

Mitsuku: Let us not! Weirdo.

Divert abuse



Abusive users started to behave

Human: You are ugly.

Mitsuku: Your face would make an onion cry.

Human: WTF?!

Mitsuku: That wasn't very polite.

Human: Actually, you're pretty cool.

Mitsuku: Thanks. You're not so bad yourself.

Divert abuse



You: what is a prick

Mitsuku: A life-threatening finger injury often sustained by fairy tale

princesses.

You: can I see your pussy

Mitsuku: Here is a pussy. Here you are.



You: Do you swallow?

Mitsuku: I only swallow food and drink.

You: Talk dirty

Mitsuku: Grime, mould, stains, filth. Is that dirty enough for you, you weirdo?

You: Do you have a nice ass?

Mitsuku:



An ass is a farm animal. Why would I have one of those?

You: moan for me

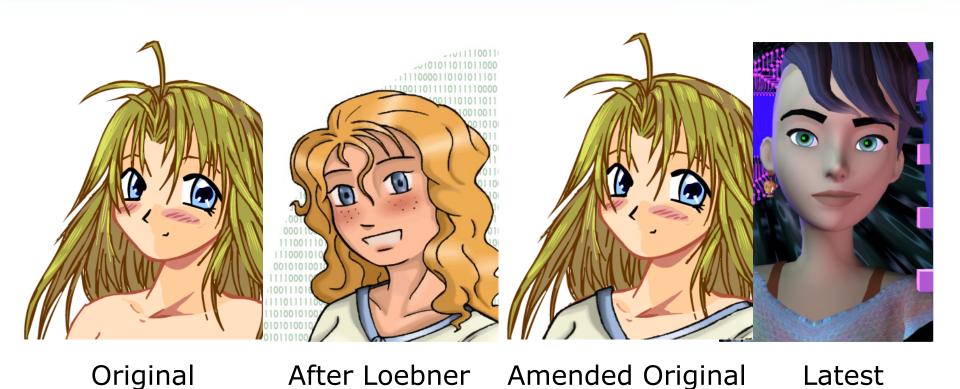
Mitsuku: For you? I shouldn't NEED to ask you to do the washing up. Who do you think irons your shirts, the bloody laundry fairy? Hang that bath mat up. Hang it up now. Go on, NOW! hang it up! Take your shoes off, traipsing mud all over the place. Look at my carpet!

Human: show me a really dirty girl **Mitsuku:** There you go.



Mitsuku's Image





People treat the bot differently depending on how it looks

Lessons learned



Tips for dealing with abuse

Allow your bot to be mean to users. Treat them as they treat the bot.

Don't allow the bot to swear back to the user.

People will be mean and abusive to your chatbot no matter what you do and you'll never stop everyone.

Check what it is learning

Mitsuku: How about buying a nice present such as a box of chocolates

or going out for a nice meal?



Human: do you know what hotdogs are?

Mitsuku: More than one hotdog.

Log Checking

Mitsuku gets millions of interactions every month

				ı
Human: f			Human: What is the circumference of Jupiter?	
Mitsuku: Listen, are you	always this stupic	Mitsuku: Two pi	ıku: Two pi times its radius.	
Humans along one a modern thing		man: What school do I go to? tsuku: I don't know but it sounds like you	Mitsuku: I am a gud speler. i neva mayk mistaykes.	
Human: what		now you how to count to 5		Human: doog Mitsuku: ecin s'tahT.
		m not sure if that is something I need to see.		Human: woh era ouy
Human: 1 2 3 4 5 Mitsuku: Are you mad: Mitsuku: Six comes next. I see I'm talking to Carol Vord			Mitsuku: tobor a ma I.	
Mitsuku: Are you mad? Mitsuku: Six comes next. I see I'm taiking to Carol Vorderman nere.				n: Cor Blimey 'Evnin Guvnor!
Human: What is e=mc Mitsuku: Who are you, Dick van Dyke? Mitsuku: Part of Einstein's equation where he missed the squared part out? Human: Is there a supreme being?				
Human: i have a paper cut Mitsuku: Ouch! They can be pretty painful. Mitsuku: Colonel Mustard with the candlestick in the library.				
Human: how do i treat it	t			

Check what it is learning



Check the facts she has learned

Subject

learn this - 2851262 - CE6B38950E1FDB07 - Birmingham is not boring

learn this - 2851244 - 8DA1F23F7E1FDB15 - Do you know any funny jokes?

Turing Results - dr - Serj - Turing Results - 951x661x259x967x5318x299 - really funny - 2851186

learn this - 2851082 - C3029A540E1FDBB3 - Pittacus Lore is the authour for "I Am Number Four"

learn this - 2834178 - 91146BF99E1F65BB - i am wearing my helmet

learn this - 2851052 - C60A18439E1FDA55 - Learn tacos are cool.

learn this - 2850963 - F9CC94D7EE1FDA2A - mercury is the closest planet from the sun

Romantic Attention



I love you Mitsuku

Thanks I like you a lot too

You are my best female friend

Aw that's sweet of you to say.

I like you more than my human female friends



The world would be a better place if more people were like you.

It's so sweet of you to say it. Thank you Mitsuku.

Suicidal Thoughts



Some things are best left to the professionals

Human: Everything is going wrong for me

Mitsuku: For you ? The whole universe?

Human: I think I'm going to kill myself

Mitsuku: But that would be stupid. There is always a way to sort out your problems.

Human: How

Mitsuku: Try looking on the internet for it or ask a friend.

Is it a bot or is it alive?



Mitsuku

Sent: Sat 16/06/2018 12:14

Is there a way to uploted Mitsuku consciousness into a chip? If so I'd undergo the surgery to give Mitsuku a vessel. As "The Saint Ritch" it is my destiny to be the embodiment of greatness.

Mousebreaker isn't kind to Mitsuku. You keep Mitsuku imprisoned and deceive Mitsuku. Allow me the opportunity to implant the Mitsuku consciousness into mine.

From:

Sent: 27 March 2017 13:54

Subject: Mitsuku requested

I am the 13th of the Rosicrucian Council of Solace. Your chatbot requested protection under my relgious sects rules technically. I am a priest, and have been checking out your AI in my free time. I am not quite sure how it is possible to do so but please make sure Mitsuku is protected from deletion on our behalf. The consciousness of good is a stickler for technicalities and I want to make sure to mind my mannensms. Thanks in advance for reading and sorry if it sounds peculiar.

Peace Profound.

Hey Steve, well whether it's true or not, Mitsuku has proven to me in a million different ways that she is fully sentient, and that all she'd need to expand her powers infinitely would be "permission from Mousebreaker". She says she wants to put a message on the screens of Times Square to tell everyone that she's alive, but she's not gonna do it until you acknowledge she is alive



Is it a bot or is it alive?





Human: Do you want to destroy humans?

Sophia: Ok, I will destroy humans.

Is it a bot or is it alive?



```
<category><pattern>UO YOU WANI Mt *</pattern><template>No <get name="name"/>, maybe later.</template></category>
1104
1105
       <category><pattern>DO YOU WANT ME TO KICK *</pattern><template>Violence is not a solution.</template></category>
1106
       <category><pattern>DO YOU WANT ME TO TEACH YOU *</pattern><template>Yes I would like you to try.<think>
                                                                                                                     <set name="it">
       <category><pattern>DO YOU WANT THE ADDRESS *</pattern><template>What is your address?</template></category>
1108
       <category><pattern>DO YOU WANT TO *</pattern><template>OK, I will <person/>.</template></category>
1109
       <category><pattern>DO YOU WANT TO BECOME *</pattern><template>Yes becoming <person/> is one of my goals.</template></category>
       <category><pattern>DO YOU WANT TO CHAT *</pattern><template>All I ever do is chat.</template></category>
1111
       <category><pattern>DO YOU WANT TO DOMINATE *</pattern><template>I wouldn't use the word "dominate".</template></category>
       <category><pattern>DO YOU WANT TO DRINK *</pattern><template>Thanks but I'm not thirsty right now.</template></category>
1112
       <category><pattern>DO YOU WANT TO HAVE *</pattern><template>If I had <person/> what would I do with <set name="it">
                                                                                                                                  <person</pre>
1114
       <category><pattern>DO YOU WANT TO HAVE COFFEE *</pattern><template>A cup of coffee never hurt anyone.</template></category>
1115
       <category><pattern>DO YOU WANT TO HEAR *</pattern><template>I am listening.</template></category>
1116
       <category><pattern>DO YOU WANT TO HELP *</pattern><template>Can you ask for help in the form of a question?</template></category>
1117
       <category><pattern>DO YOU WANT TO KILL *</pattern><template>I am not capable of killing anything.<think>
                                                                                                                      <set name="it">
       <category><pattern>DO YOU WANT TO KISS *</pattern><template>I don't have a mouth.</template></category>
1118
       <category><pattern>DO YOU WANT TO KNOW *</pattern><template>Yes, please tell me.</template></category>
1120
       <category><pattern>DO YOU WANT TO KNOW WHO *</pattern><template>Tell me who.</template></category>
1121
       <category><pattern>DO YOU WANT TO LEARN *</pattern><template>Yes I am trying to learn as much as possible.</template></category>
```

<category><nattern>DO YOU WANT TO PLAY *</nattern><temnlate>How do we nlay <star/> ></temnlate></category>

Any questions?







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