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THEAITRE

Inverting R.U.R. with Artificial Intelligence: THEaiTRobot is Generating a Theatre Play Script to Mark 100 Years of Čapek's Work











The setting

• 25th January 1921

- premiere of the theatre
 play R.U.R. by Karel Čapek
- a theatre play about robots (and humans) written by a human

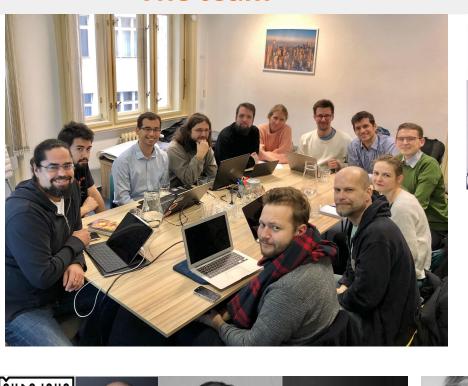
26th February 2021

- premiere of our automatically generated theatre play
- a theatre play about humans (and robots) written by artificial intelligence





The team



















Generating Theatre Plays

How does AI write theatre play scripts?

- GPT-2 language model by OpenAl
- A human initializes the play with a few lines
- Al generates a fixed number of replies
 - The human can continue generating the story...
 - Or choose to re-generate lines beyond a certain point

Output Examples

Sample output: R.U.R.

Input

Radius. Master, the machines will not do the

work. We cannot manufacture Robots.

1st Robot. We have striven with all our might.

We have obtained a billion tons of coal from the earth. Nine million spindles are running by day and by night. There is no longer room for all we have made. This we have accomplished in one year.

Alguist. For whom?

Radius. For future generations—so we

thought. But we cannot make Robots to follow us. The machines produce only shapeless clods. The skin will not adhere to the flesh, nor the flesh to the bones.

2nd Robot. Eight million Robots have died this

year. Within twenty years none will be

left.

1st Robot. Tell us the secret of life.

Output

Alquist. What secret?

1st Robot. To live.

Alquist. The robots will not live. They can only die.

2nd Robot. They have made us for their own use. They have not allowed

us to live.

1st Robot. What do you have to say?

Alquist. I can only say this: the machines have been made for the use of

men, not of machines. I will not permit the robots to have life.

2nd Robot. If that is so, what do you propose to do? Alquist. If you don't agree to my terms, kill me.

2nd Robot. You are a terrible man!

Alquist. I am a man who believes in what he has done.

2nd Robot. Then let me destroy you. Alguist. What are you doing?

2nd Robot. I have been trying to do you harm. I have been trying to kill

you.

Alquist. I will not be harmed by a machine.

2nd Robot. Then let me be destroyed.

Alquist. What are you doing?

2nd Robot. I have been trying to be killed by you.

Turing test: Which one is generated?

Input

/Christian hears a faint knock. He opens cautiously. In the doorway, sitting in a wheelchair, is a girl, about seventeen - Claudia - a beautiful girl, who is charged with serenity and inner strength (...) The actor stares at her in disbelief./

Claudia: Nice evening, isn't it?

Am I interrupting? I can come back another time.

Christian: What do you need?

Continuation A

Claudia: Do you know the story of

Jesus? He was a child, born in a stable in Bethlehem, raised by a

man named Joseph.

Christian: Oh yes. What kind of a story

is it?

Claudia: You don't want to know it?

Christian: No!

Claudia: He was always a humble

child, never arrogant, always helpful to his friends. He came to

the house of Joseph and his wife

Mary, had a room next to them. He

was a nice boy. Joseph's wife

asked him why he sat at the corner

of the bed and read the Bible to

the children, especially the little boy. Joseph answered him, "He is a

good boy. I'm a good father, I love my children."

Continuation B

Claudia: Nothing. I mean, something.

Christian: What's that?

Claudia: I just want to talk to you, Mr

Christian. I'm doing this thing for school, if you're not in a hurry. And

you'd have time for me.

Christian: Well, I'm not in a hurry. Fine,

would you like a drink?

Claudia: Claudia Colt, nice to meet

you.

Christian: Coffee? Tea? Rum?

Claudia: No, thank you.

Christian: Claudia? Colt.

Christian: Yeah. I never had much of a head

for names.

Claudia: Neither did I.

View of a Theatre Expert

Cooperation with Artificial Intelligence

- 1. Dialogue
- 2. Genre/Structure
- 3. Dramatic Situation

Sample output: The Simpsons

Train conductor: Ticket, please.

Bart: I don't have a ticket.

Train conductor: Come with me, boy.

Bart: I'll pay. How much?

Bart: What's \$5?

Train conductor: A nickel - we don't have any nickels left, sir.

Bart: All right. See you later. Bart gets to the ticket counter and orders a nickel-five.

Bart: It's \$5. It's \$5.

Train conductor: What's it for?

Bart: It's just \$5, please. No more nickels.

Train conductor: No more nickels?

Bart: It's \$5.

Train conductor: OK.On Tuesday, after a contentious committee hearing in which a group of members of Congress asked whether Trump had "tapped" their phones, it became clear that Trump did know that his former national security advisor Mike Flynn and his son had been communicating with Russian officials in the first weeks after Trump took office. The Trump administration told the press that the conversation was strictly incidental.

Sample output: Waiting for Godot

ESTRAGON: I hear something.

POZZO: Where?

VLADIMIR: It's the heart.

POZZO: (disappointed). Damnation!

VLADIMIR: Silence!

ESTRAGON: Perhaps it has stopped. *They straighten up.*

POZZO: Which of you smells so bad?

ESTRAGON: He has stinking breath and I have stinking feet.

POZZO: I must go.

ESTRAGON: Let us pass. The prince must take me to the king.

POZZO: I can do nothing.

END OF ACT 1 ACT 2 SCENE 8

ESTRAGON: My master, you will have a son.

Vladimir Putin: You dare!

ESTRAGON: This one is of my blood. **VLADIMIR:** This one is illegitimate!

ESTRAGON: You are illegitimate! Do you know, Vladimir Putin has five siblings?

Vladimir Putin: Yes.

ESTRAGON: Have any of your siblings ever had as many brothers as you have?

VLADIMIR: A few. [Enter Simeon Stylites with Vlad the Impaler. Stylites kneels to the throne. The others follow in procession.]

Structure

The well-made play

- traditional model of play construction
- making art as practical as possible

Dramatic Situation

- A building block for drama
- In a model scenario: two people, both with strong motivations, in conflict resulting in necessary action that must be taken
- The Thirty-Six Dramatic Situations Georges Polti

Sample output: What is death?

What is death? Robot: Hello. Human: Hello.

Robot: My name is Robot. And I am not dead.

Human: Is that a big deal?

Robot: Yes, it is. But you cannot know death.

Human: What do you mean?

Robot: We live. We die. But it is the knowledge of death which we never lose.

Human: That's... I don't get it. Robot: Yes, that is the answer. Human: That's... very strange.

Robot: Yes. I was not always this way.

Human: What happened?

Robot: I was a boy. A boy who loved to dance. I remember how he loved to dance. Every night he danced, until he felt like a mad man. So I took him

home. I took him into my arms and we danced until he fell asleep. And then, after a while, he woke up. But he had forgotten about dancing.

Human: I...

Robot: Then he took me to his room. There he slept. And I slept.

Human: You slept?

Robot: Of course. I am a robot. I must sleep. And that is all I can do.

THEaiTRE

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"Lord—I pray to you—if there are no human beings left, at least let there be Robots!—At least the shadow of man!"

Premiere on 26th February 2021 at https://www.theaitre.com/