

实验目的 / The Purpose of the Experiment

本实验是由美国哥伦比亚大学自然语言实验室俞舟教授领导的研究团队所开发。主要目的为：帮助英语学习者藉由和AI对话机器人家教聊天的过程，练习英语对话。聊天机器人家教会以英语语音消息和您进行有趣的日常生活话题(例如电影) 交流。当您有严重的语法错误时，聊天机器人会提供实时的语法反馈。机器人也会在恰当的时候为您提供鼓励式反馈。

This experiment is conducted by Prof. Zhou Yu's Natural Language Processing Lab at Columbia University. The main purpose of this study is to help English learners practice English conversations through conversations with an AI tutoring chatbot. The chatbot tutor will conduct fun everyday conversations with you about topics such as movies. The chatbot will correct you when you are making major grammar errors. The chatbot will also provide you with encouraging feedback at the appropriate times.

实验流程 / Experiment Procedure

- **步骤1: 问卷调查 (约10分钟)**：帮助我们了解您的具体情况，包括您的英语水平。如果您同意参与我们的实验，在填写这份实验同意后您会收到一封电子邮件，其中会包括：(1) 您的实验ID，(2) 您的聊天机器人链接，(3) 两份调查问卷的链接。
- **Step 1: Pre-Survey (~10 mins)**: This helps us understand your specific situation, including your English proficiency. If you consent to participating in our study, you will receive an email after filling out this form, which will include: (1) your Experiment ID, (2) your link to access the chatbot, and (3) the links to the pre-survey and the post-survey.
- **步骤2: 至少三次英语会话聊天(每一次约10-15分钟)**：和聊天机器人家教交流(约12至15轮对话)。假如您的消息有严重语法错误，会收到实时的语法反馈。机器人也会在恰当的时候为您提供鼓励式反馈。您需要与聊天机器人交流至少三次。
- **Step 2: At least three English conversations (10 - 15 mins each)**: Converse with the tutor chatbot (~12 - 15 turns). If your messages have major grammar errors, you will receive prompt grammar feedback. The chatbot will also provide you with encouraging feedback when appropriate. You would need to converse with the chatbot for at least three times.
- **步骤3: 问卷调查(约15分钟)**: 提供您的使用体验反馈和建议。您的宝贵意见将帮助研究团队未来开发出更好的英语会话教学系统。
- **Step 3: Post-Survey (~15 mins)**: Provide insights on your experience and feedback for us. Your valuable input will help the team develop better English conversational systems in the future.

使用者 / Eligibility

我们在寻找的主要对象为：

- 超过18岁的成年人
- 有兴趣在英语会话中收到语法反馈

We are looking for participants who are:

- Adults (18+)
- Interested in receiving grammar feedback in their English conversations

其他说明 / Disclaimer

- 您填写的问卷与对话内容皆为匿名数据。在对话过程中，请避免提到您的个人可识别信息(如姓名、电话、生日、地址)以保护您的隐私。研究所收集到的资料将作为研究及科学论文发表

之用。

- Your survey responses and conversation content will be anonymized. Please avoid mentioning identifiable information during the conversation (e.g. name, phone number, birthday, and address) to protect your privacy. The information collected from you through this study will be used for research and publishing purposes.
- 实验过程中若有任何问题，请透过以下电子邮箱联系研究人员: edubot-grammar@columbia.edu
- If you have any questions during the experiment, please contact: edubot-grammar@columbia.edu
- 若因为任何原因无法完成实验，您随时可以退出
- If you cannot complete the experiment for any reason, you may terminate your participation at any time.

2. 我同意参与实验 / I consent to participating in the experiment.

Mark only one oval.

- ☐ 是 / Yes Skip to section 2 (**系统使用指南 / Chatbot Platform Instructions**)
- ☐ 否 / No

系统使用指南 / Chatbot Platform Instructions

在实验过程中，您需要和我们的聊天机器人进行至少三次对话。每一次对话都需要您重新打开聊天机器人的链接（您可能会需要刷新几次才可以打开链接）。以下是我们的聊天机器人平台的使用指南。我们也会将这些图片发送给您。 / During the experiment, you would need to interact with our chatbot for at least three times. Each interaction would require you to re-open the chatbot access link (you may need to refresh your browser page). The following details the instructions for using our chatbot platform. We will also send you these images for future reference.

第一步：信息录入 + 个性化 / Step 1: Information + Personalization

Survey

Please finish the survey below.

1. 你的实验ID是什么? / What is the ID given to you? *

test

 → **你的实验ID / Your experiment ID**

- 你想要中文翻译吗? / Do you want Mandarin translations of the chatbot utterances? *
Please select
Yes
- 你比较喜欢怎么样的聊天机器人反馈? / How would you like the chatbot feedback? *
Please select
我喜欢短小精悍的反馈 / I would like the bot's feedback to be short and succinct.

SUBMIT

第二步：选择聊天话题 / Step 2: Choose the topic

你可以多次选择同一个话题。 / You can choose the same topic multiple times.

第二步：选择聊天话题 / Step 2: Choose the topic

Choose one below to complete

TV Shows
SPOKEN

Books
SPOKEN

English Learning
SPOKEN

Food
SPOKEN

Hobbies
SPOKEN

Movies
SPOKEN

Music
SPOKEN

选择你感兴趣的话题 / Choose the topic you are interested in

第三步：聊天 / Step 3: Chat!



The screenshot shows the EduBot chat interface. At the top, there is a chat bubble from EduBot with a transcript button (a document icon) highlighted by a red box. A red arrow points from this button to a larger chat bubble below it, which displays the transcript of the chatbot's response: "Hi there! I'm here to be your English tutor today, and I'd love to help improve your grammar by providing feedback on your responses. How are you doing?". Below this, there is a text input field with the text "I am doing great, thank you|" and a "SEND" button. A red arrow also points from the transcript button to the text input field.

点击这里来显示聊天机器人说的话 / Click on this button to reveal chatbot's utterance transcripts

如果有需要的话，你可以编辑你的语音识别文字 / If needed, you can edit your ASR texts

第三步：聊天 / Step 3: Chat!

您需要和机器人聊至少十个来回才能点击“Finish Chat”按钮。 / You would need to chat for at least 10 rounds before being able to click the "Finish Chat" button.

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