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Demographic Questions

- What is your name?
- How old are you?
- What is your major or field of work?
- What brand of mobile phone do you use now?
- Please leave your email address so we can inform you of the interview results.

Introduction

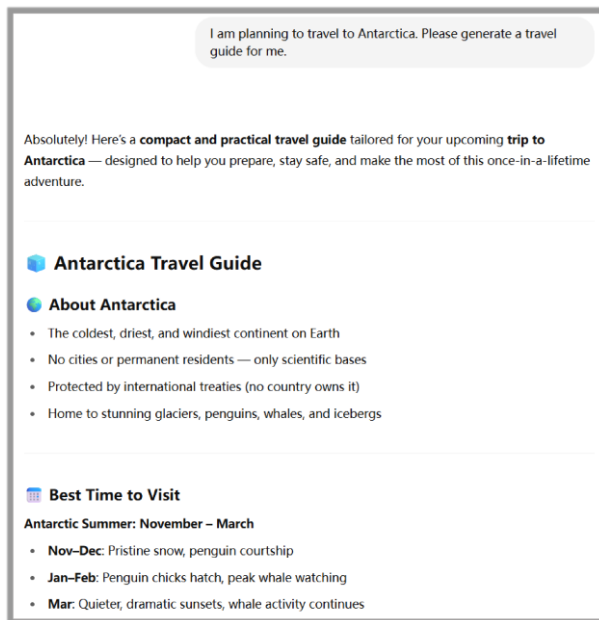
Do you know what generative artificial intelligence is?

Generally speaking, generative AI is a recently emerged and popular form of AI technology. Tools like DeepSeek, Doubao, and ChatGPT—which can interact with users through conversation, answer questions, generate and edit images, and perform similar tasks—are all examples of generative AI.

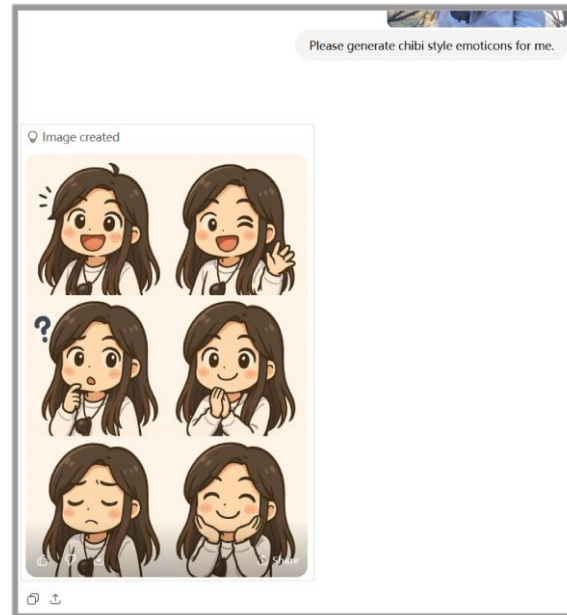


• Generative AI (GenAI)

Technically speaking, GenAI, short for Generative Artificial Intelligence, is a type of AI that creates new content, such as text, images, audio, and video, based on existing data. Its underlying principle is to predict the most likely output based on the user's input, enabling it to perform a wide range of tasks such as writing, translation, question answering, and image generation. It's designed to mimic human creativity and can generate novel outputs that resemble the training data it was exposed to.



Create Text



Create Image



Translation

- **GenAI Phone**

A GenAI phone is a smartphone that utilizes generative AI models and features directly on the device. This means it can create new content, perform context-aware tasks, and enhance various functionalities by leveraging GenAI models that are pre-trained and run locally on the phone. Essentially, it's a smartphone with built-in capabilities for generating text, images, audio, and other content, as well as enhanced AI-powered tools and features.



Text Summary



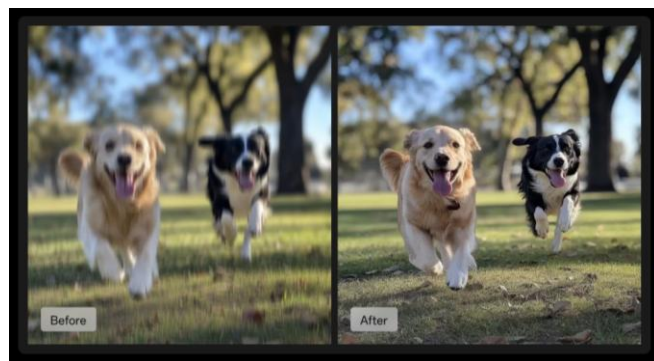
AI Image Expansion



Speech Recognition

GenAI Phone Usage Scenarios

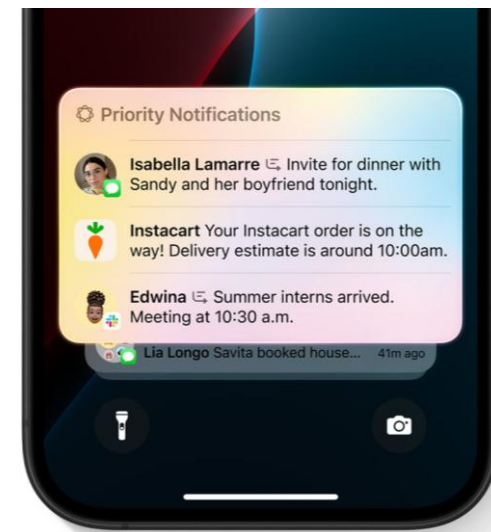
- Creativity & Editing (Audio Editor, Automated Video Editing, Intelligent Image Retouching, AI-based Image Upscaling)
- Understanding & Conversation (AI Subtitles & Interpreter, AI Call Summary)
- Notifications & Messages Processing (Priority Notifications, Summarize an Email, Smart Reply, Catch Me Up)



AI Unblur



AI Speech Recognition



Priority Notifications

GenAI Phone Usage Scenarios

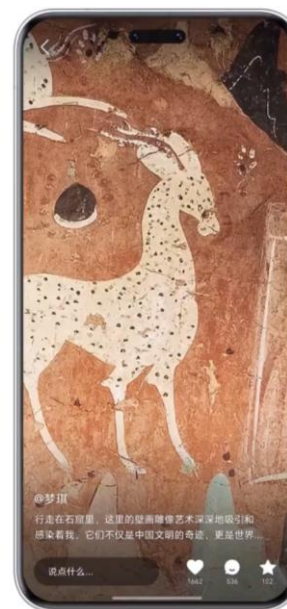
- Real-time Interaction (Get Product Knowledge, Onscreen Awareness, Suggests Helpful Next Steps, AI Calculator, Cross-application Task Execution)
- Smart Search (Circle to Search, Magic Portal, Search Your Gallery)
- Health Management (Health Assist)
- Personal Privacy Protection (Intelligent Hiding Notifications, Deepfake Detection)



AI Gesture Reactions



Cross-application Task Execution



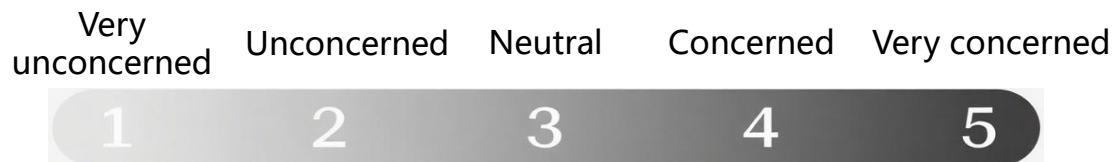
Circle to Search



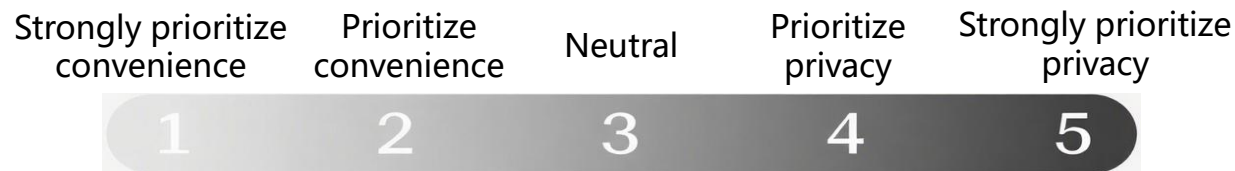
Deepfake Detection

Understanding and Use of GenAI Phone

1. Before I give you a brief introduction to GenAI phone, what is your understanding of what an GenAI phone is?
2. Have you learned about the concept or features of GenAI phones through any channels previously? (Personal use, Social media, Official product info, Friends' recommendations, Others)
3. (Answers from respondents who have used GenAI phones) In the process of using your mobile phone, in which scenarios has GenAI been utilized? How frequently do you use an GenAI phone in your daily life?
4. Can you briefly describe how an GenAI phone works, that is, how it receives instructions and completes tasks?
5. On a scale of 1 to 5, how concerned are you about the privacy and security of GenAI phone?



6. When using an GenAI phone, would you prioritize privacy or convenience? Please select your privacy priority.



- We'll ask you to complete three sorting tasks related to how GenAI phone works, which will help clarify how tasks are executed.
- In the tasks you completed, we categorized the first scenario as "UI task automation", where the task is accomplished through multiple sequential operations. The other two scenarios fall under "data processing," where data is directly input and results are generated through a GenAI. Could you try to summarize the basic process by which GenAI phone completes tasks in each of these two types of scenarios?

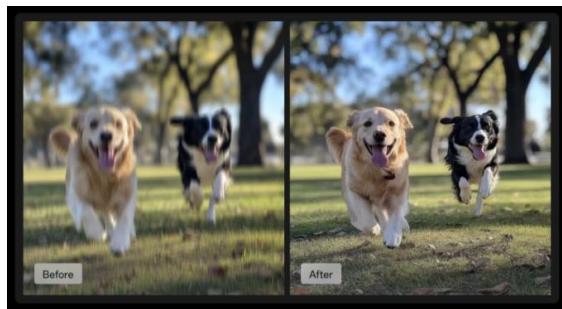
Privacy Concerns

Risk Scenarios and Sensitive Data Types

1. In each of the scenarios listed, what types of data do you think your phone collects?

- Creativity & Editing (Audio Editor, Automated Video Editing, Intelligent Image Retouching, AI-based Image Upscaling)
- Understanding & Conversation (AI Subtitles & Interpreter, AI Call Summary)
- Notifications & Messages Processing (Priority Notifications, Summarize an Email, Smart Reply, Catch Me Up)
- Real-time Interaction (Get Product Knowledge, Onscreen Awareness, Suggests Helpful Next Steps, AI Calculator, Cross-application Task Execution)
- Smart Search (Circle to Search, Magic Portal, Search Your Gallery)
- Health Management (Health Assist)
- Personal Privacy Protection (Intelligent Hiding Notifications, Deepfake Detection)

Risk Scenarios and Sensitive Data Types



AI Unblur



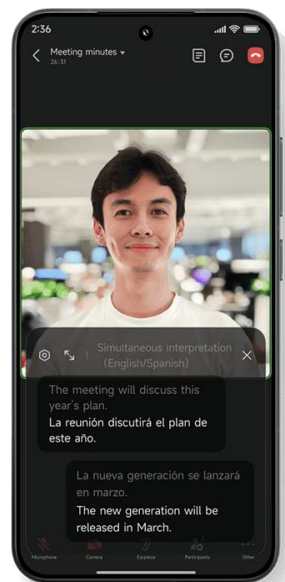
Cross-application Task Execution



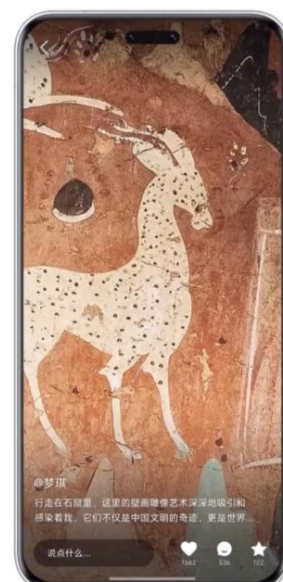
Priority Notifications



AI Gesture Reactions



AI Speech Recognition



Circle to Search



Deepfake Detection

Risk Scenarios and Sensitive Data Types

2. Please rank the following scenarios from highest to lowest severity of privacy risk.

- a) Creativity & Editing (Audio Editor, Automated Video Editing, Intelligent Image Retouching, AI-based Image Upscaling)
- b) Understanding & Conversation (AI Subtitles & Interpreter, AI Call Summary)
- c) Notifications & Messages Processing (Priority Notifications, Summarize an Email, Smart Reply, Catch Me Up)
- d) Real-time Interaction (Get Product Knowledge, Onscreen Awareness, Suggests Helpful Next Steps, AI Calculator, Cross-application Task Execution)
- e) Smart Search (Circle to Search, Magic Portal, Search Your Gallery)
- f) Health Management (Health Assist)
- g) Personal Privacy Protection (Intelligent Hiding Notifications, Deepfake Detection)

3. Which types of data would you least want your phone to collect or analyze? Please select 2-3 types from risk scenario options and explain why.

4. Which types of data do you consider low sensitivity and wouldn't mind your phone collecting? Why?

Privacy Concerns: Concerns about Specific Features of GenAI Phone

5. To enable the intelligent assistant to automatically complete various tasks, GenAI phone may invoke the system's accessibility permissions to allow GenAI to quickly read screen content. Accessibility permissions are special interfaces in the Android operating system originally designed for users with disabilities, and they are nearly equivalent to the highest level of system access. When GenAI takes control of these permissions, it means that data from all apps on the phone could potentially be exposed to the GenAI without restriction. **What concerns do you have about GenAI phone using accessibility permissions?**
6. When using GenAI phone to automatically complete some cross-application tasks, the phone will **simulate human clicks, slides and other operations through system calls** and other methods to control the phone. Do you think completing tasks in this way will bring privacy risks?

想点奶茶?

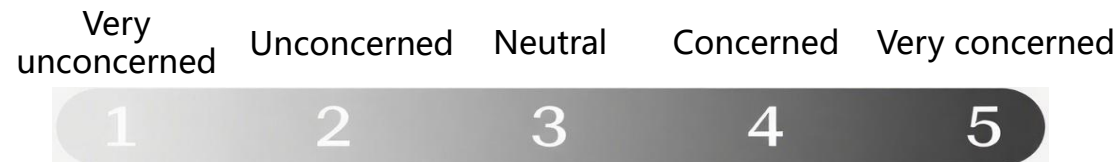
通知干扰?

Privacy Concerns: Concerns about Specific Features of GenAI Phone

7. Even simple tasks might require the collection of multiple types of user data. For example, in the task of ordering coffee, GenAI phone needs not only to collect screenshots and app data, but also to gather information such as the user's location and consumption habits. In this scenario, screenshots and app data may seem unrelated to the task itself. Furthermore, the models integrated into GenAI phones by various phone manufacturers possess powerful reasoning capabilities, potentially inferring other sensitive information based on collected personal data. **What privacy concerns might this kind of excessive data collection raise for you?**
8. In order to achieve more powerful functions or enhance user experience and get closer to the role of a "personal assistant", GenAI phone will **memorize user data and may store the collected data in the cloud**. What privacy risks do you think there will be in this regard?
9. Training a GenAI means teaching a computer to understand and use language by showing it a lot of text, like books and websites. The model learns patterns by guessing the next word in a sentence and adjusting itself when it's wrong. Over time, it gets better and can talk, answer questions, or help with tasks—like a smart assistant. **What privacy risks do you see if GenAI uses your data for further model training?**

Privacy Concerns: Concerns about Specific Features of GenAI Phone

10. When GenAI phone controls third-party software to complete tasks, it generally do not ask for the user's consent again for permissions or data information that **the third-party application** has already obtained. In this regard, what privacy risks and security issues do you think exist?
11. Most GenAI phone companies do not disclose the technical details of their smartphones, nor do they clearly explain what data is collected or how it is processed during task execution. What privacy concerns might **this lack of transparency** raise for you?
12. Do you have any other privacy concerns not mentioned above?
10. Has your level of privacy concern about GenAI phone changed after this discussion? If so, what' s your current level (1-5)?



User Suggestions

1. Have you taken any steps to protect your privacy while using an GenAI phone? If so, what prompt you to do that?
2. When mobile phone manufacturers collect and use your data (such as photos in your photo album or your phone's recording permissions), users must provide their informed consent. In your opinion, when GenAI phones use sensitive permissions or collect sensitive data, how should they notify users, what content should be displayed, and when should they be notified?
3. Users have the right to proactively manage the permissions used by GenAI . Based on the current permission management designs of various mobile phone brands, what suggestions do **you have for the design of permission management for GenAI phones? Do you have personalized preferences for permission management?**

4. One use scenario of GenAI phone is performing tasks across multiple apps. During this process, the GenAI system or GenAI assistant may invoke third-party apps to complete the task. What are your thoughts on whether the GenAI system should be allowed to directly use the permissions already granted to those third-party apps? How do you think permission management should be divided between the two parties?
5. Before the GenAI phone uploads or stores data, what **privacy protection mechanisms** do you hope to have to prevent personal information from being leaked?
6. For the data that has already been collected or processed by GenAI phone, how would you prefer to **update or delete** it?

7. To what extent do you think the principles and processes behind how GenAI phones execute tasks or process data should be made transparent? Please consider what kind of transparency would help you feel safe and informed when using an GenAI phone. [5-point Likert scale question]
- Very unclear - Only minimal information should be provided.
 - Unclear - Basic explanations should be available.
 - Somewhat clear - Clear outlines of how major features work should be shared.
 - Clear - Detailed explanations should be accessible to users.
 - Very clear - Full transparency should be provided.

8. If industry standards and government regulations are to be introduced for GenAI phone, focusing on the following key areas, what core elements do you think must be included?
- a) Data Protection and Privacy
 - b) Algorithmic Transparency and Fairness
 - c) Safety and Misuse Prevention
 - d) User Rights and Empowerment
 - e) Developer Accountability and Platform Oversight
 - f) Cross-border and International Coordination

9. Do you think GenAI phone needs to be designed with dedicated privacy protection functions for groups such as children and the elderly who are not familiar with mobile phones and have less awareness of personal privacy? Do you have any specific ideas or suggestions in this regard?
10. How should issues like mistaken taps or navigation errors caused by GenAI be addressed to ensure user safety?
11. Would you prefer detailed privacy settings you can customize, or would you rather the phone auto-optimize settings for you?
12. Any other suggestions on privacy-related design improvements for GenAI phone?
13. What do you think is the most urgent privacy problem that GenAI phone needs to address right now?