

A Beginner's Guide to Generative AI



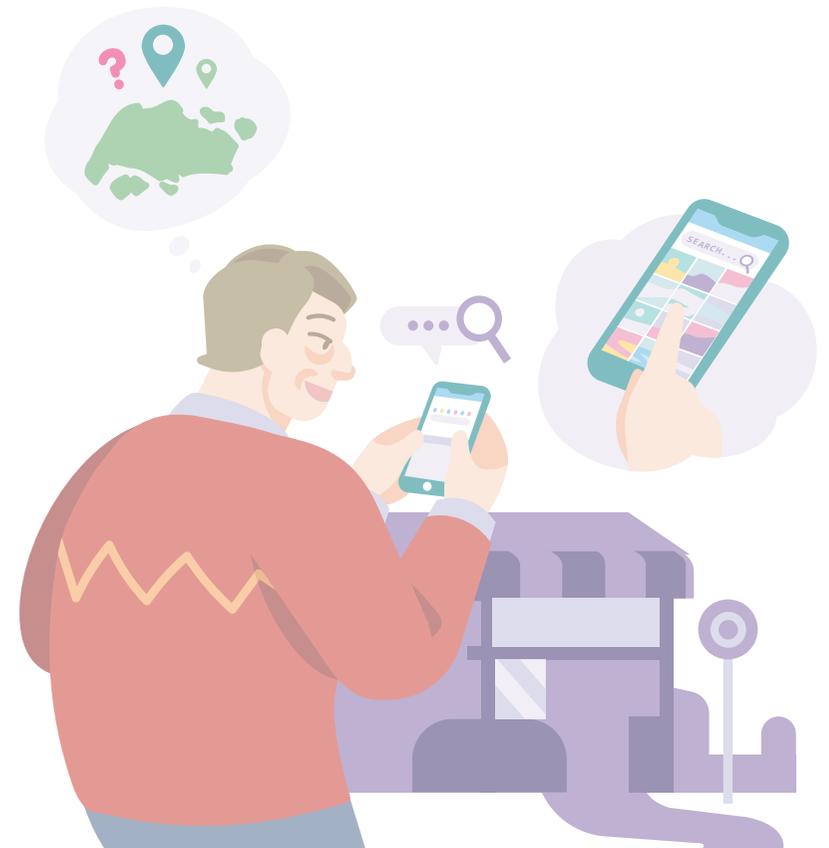
Scan the QR code below to learn more about Generative AI:



Explore Information Online

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Introduction

The Digital Skills for Life (DSL) guide is a collection of booklets that is designed to help you learn essential digital skills for daily living. It offers step-by-step instructions and quick tips that empowers you to navigate the digital landscape confidently and safely.

It is designed for anyone who wants to pick up essential digital skills for daily living.

The DSL skills are grouped into 5 competency areas as shown in the diagram.

Learning outcomes:

This guidebook focuses on the 'Explore Information Online' competency where you will learn:

- The basics of Generative AI and its applications.
- How to use Generative AI tools.
- The risks associated with the use of Generative AI and its impact.
- How to identify false information associated with the use of Generative AI.

To help you acquire the learning outcomes, the guidebook uses different generative AI tools as examples to demonstrate the common features and steps.

DSL



Be Safe, Smart & Kind Online

Safeguard against cyber threats; Protect personal information; Develop a positive online presence.

Explore Information Online

Search, view and retrieve information online.



Communicate Online

Connect with others online.



Transact Online

Carry out online transactions.



Set up & Use Smart Devices

Set up and operate the basic hardware and software functions of your mobile device.



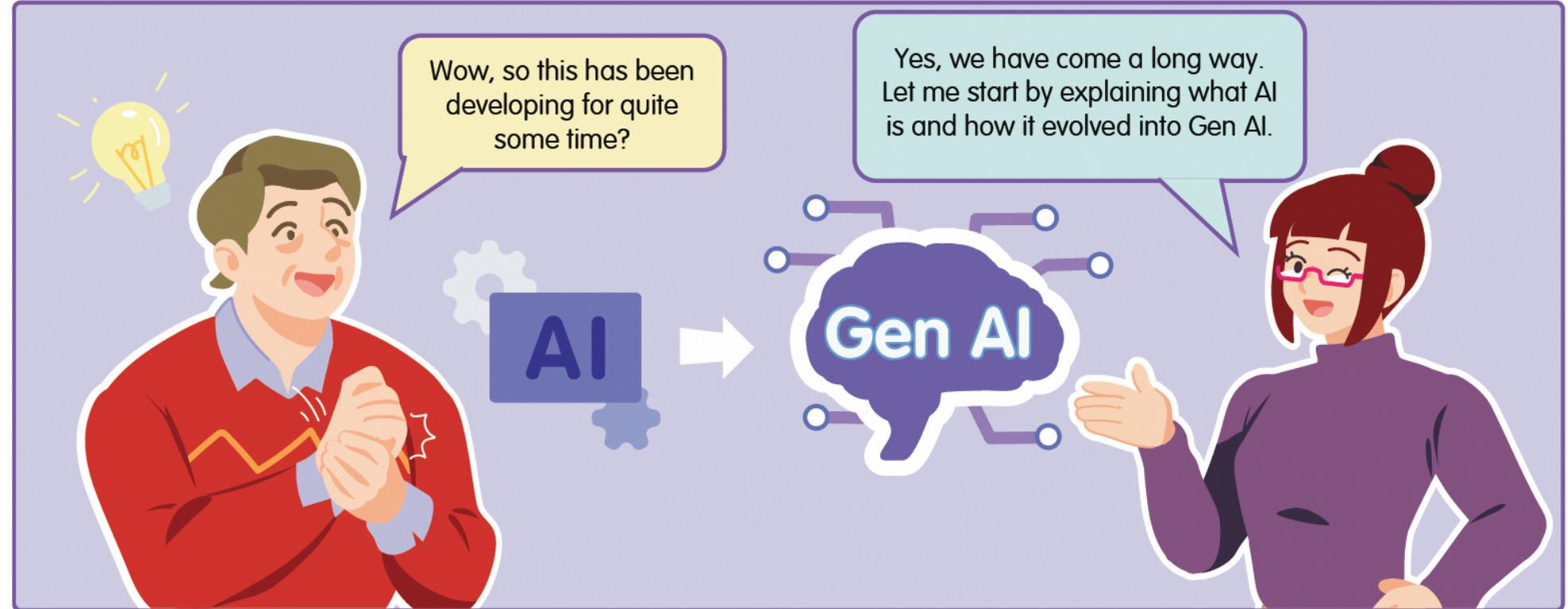
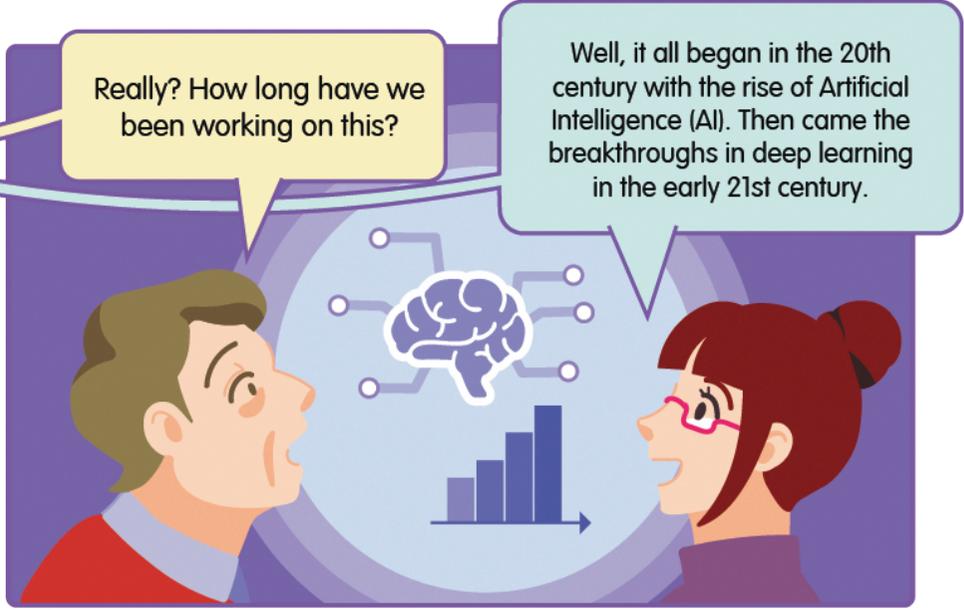
The guidebook is based on common software icons and mobile device settings. Please note that certain features may differ across different mobile devices and models.

Understanding Artificial Intelligence (AI) and Generative AI (Gen AI)

About Artificial Intelligence (AI) Page 5

The Evolution of Artificial Intelligence (AI) Page 6

About Generative AI (Gen AI) Page 8



What is Artificial Intelligence (AI)?

Artificial Intelligence (AI) is **the science of teaching machines to mimic intelligent human behaviours**. AI systems are taught using computer programming to learn, reason, problem solve and create.



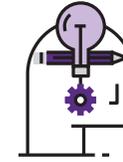
1. Learning



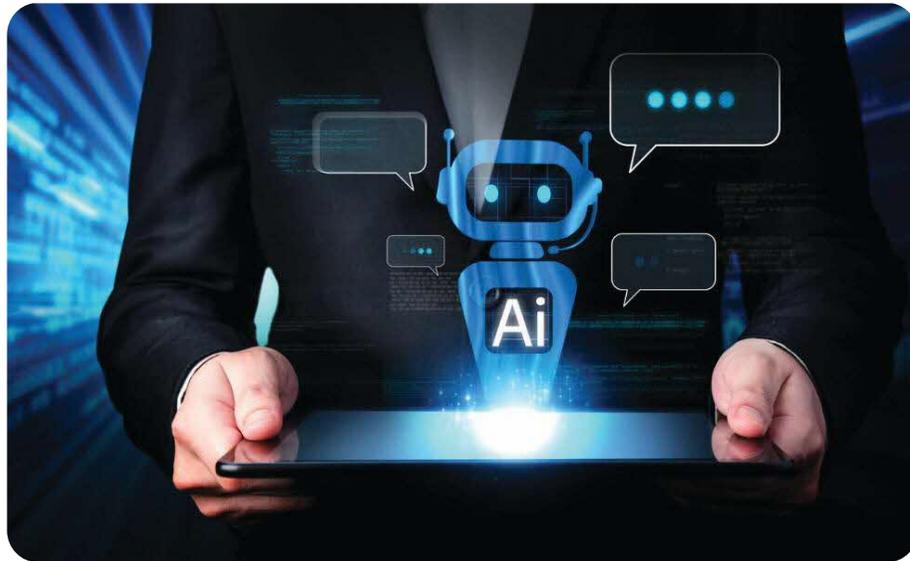
2. Reasoning



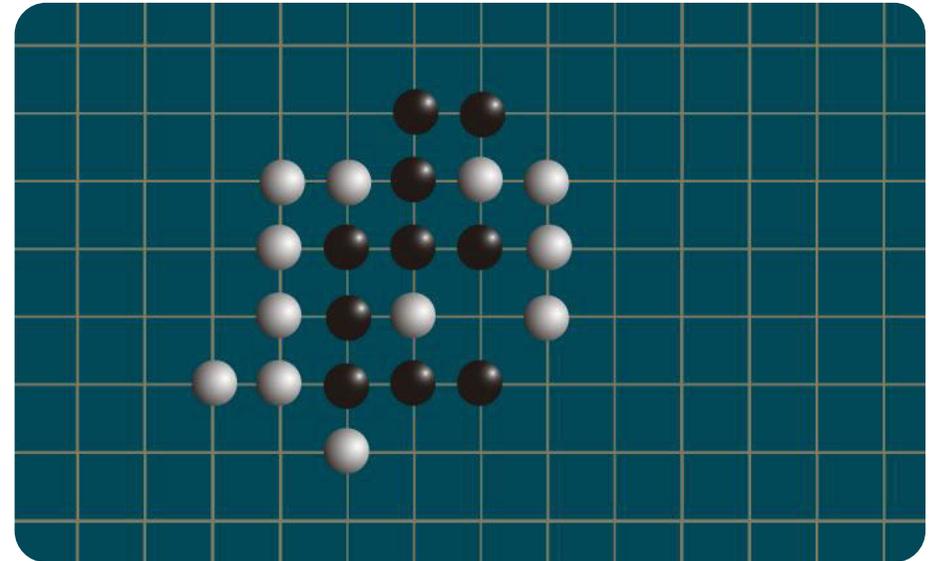
3. Problem solving



4. Creating



E.g. Teaching computers how to recognize speech



E.g. Teaching a computer Go

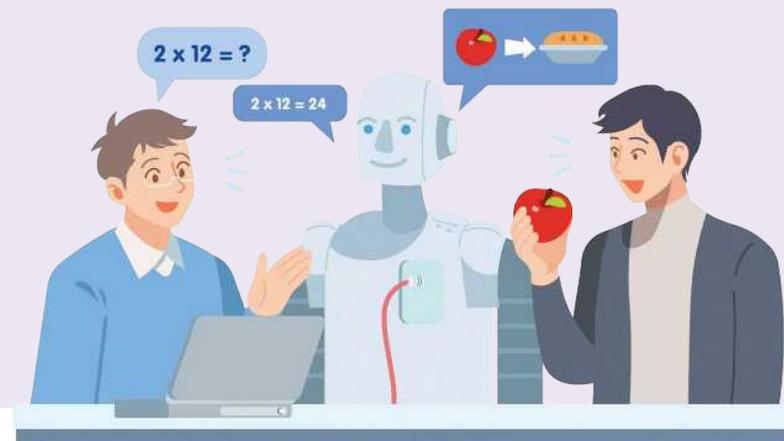
The Evolution of Artificial Intelligence (AI)



“Let's look at human learning. From birth, we rely on our senses to gather information from our surroundings and send these information to our brains to process them. Learning through mistakes and making new discoveries, we build our knowledge and over time, we become smarter in making decisions.”



“Similarly, AI is **the science of teaching machines to mimic intelligent human behaviours**. AI systems are taught and trained using computer programming that learns and adapts. AI learns from lots of data using machine learning, deep learning and large language models (LLM) to identify patterns, relationships within the data and understand human language. As it learns, it gets smarter, recognising patterns and making predictions and decisions, like humans do.”



The Evolution of Artificial Intelligence (AI)



"We're already experiencing AI in our daily lives through applications like autonomous vehicles, virtual assistants like Siri and Alexa, smart homes, and more."

Take a guess:

Where else have you likely encountered AI in your daily life?

- A** Your email spam filter
- B** Personalised product recommendations on websites
- C** Adjusting the brightness on your phone camera

The AI model is trained to analyse customers' behaviour, preferences and buying patterns. They can then recommend / suggest products and predict customers' shopping trends.

B

The AI model in the spam filter will be trained with datasets of labelled emails. Over time, they will know which emails are labelled as spam, which are legitimate.

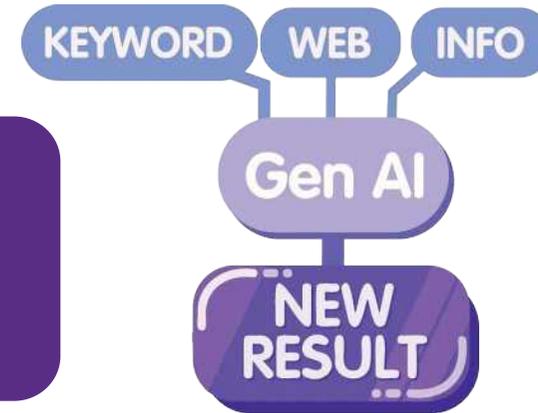
A

Answer:

About Generative AI (Gen AI)



"So what exactly is Gen AI? Is it a subset of AI?"



"Yes. Gen AI is a leap forward from traditional AI. Traditional AI systems are primarily used to analyse data and make predictions, while Gen AI goes a step further by **generating new content through identifying patterns in existing data**.

Although you can also use Gen AI to find information online, it is different from Search Engines. **Search engines like Google and Yahoo retrieve existing information from the web based on keywords or phrases**, directing you to websites where you can find the information. Gen AI can also find existing information on the web, **but its main use is to create entirely new content.**"



What can Gen AI be used for?

Text

Generate new text, such as stories, articles, and poetry.

Image

Create unique and imaginative images from scratch.

Video

Generate or edit videos based on scripts, prompts, or data.

Music

Compose music by generating melodies, harmonies, and soundscapes.

Code

Write and debug code in various programming languages.

Examples of Generative AI Tools and Their Capabilities



ChatGPT



Gemini



Microsoft Copilot



Meta AI



Runway AI



Synthesia



AIVA



AMPER MUSIC



Github Copilot



Tabnine



Perplexity.ai



Jasper AI



Midjourney



DALL-E

Some examples of how Gen AI tools such as ChatGPT and Gemini are applied in our daily lives

A For Schoolwork

Example:
Research on projects

Show me the age demographic of the population in Singapore. Present in the form of a Bar Chart.

Sure, here is the graph:

Age Group (years)	Estimated Population (Thousands)
0-4	750
5-9	750
10-14	350
15-19	300
20-24	300
25-29	300
30-34	350
35-39	300
40-44	250
45-49	200
50-54	150
55-59	100
60-64	50
65-69	50
70-74	50
75-79	50
80-84	50
85-89	50
90-94	50
95-99	50

Be sure to check the data in the chart to make sure I got it right.

Gen AI tool used: 
Gemini

A For Work

Example:
Drafting emails

Craft me an email asking my boss for approval on leave.

Subject: Request for Leave Approval

Dear [Boss's Name],

I hope this message finds you well. I would like to request leave from [start date] to [end date] due to [brief reason, e.g., personal reasons, a medical appointment, or family matters]. During this period, I will ensure that all my current tasks are up to date and any urgent matters are properly delegated.

Please let me know if you need

Gen AI tool used: 
ChatGPT

A For Leisure

Example:
Planning holidays

Give me an itinerary for a 4-day trip to Bali, and include pictures of places to visit.

4-Day Bali Itinerary

Day 1: Arrival and Ubud Exploration

- **Morning:** Arrive at Ngurah Rai International Airport. Check into your accommodation in Ubud.
- **Afternoon:** Visit the **Monkey Forest Ubud** to encounter playful monkeys in their natural habitat.
- **Evening:** Enjoy a traditional Balinese dance performance at the **Ubud Palace**.

Gen AI tool used: 
Gemini

A For Humour

Example:
Asking for jokes

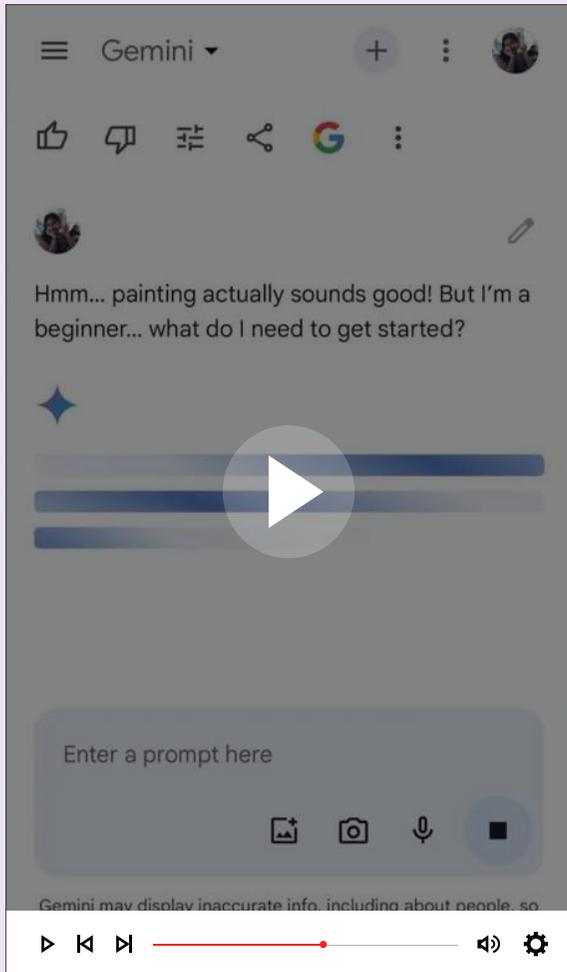
Tell me a joke about cats.

Why did the cat sit on the computer?

Because it wanted to keep an eye on the mouse!

Gen AI tool used: 
ChatGPT

Gen AI in Action



Scan this QR Code to watch a 1-minute video on how Gen AI works!



Thank you! I have a better understanding of what Gen AI is now. How do I make use of the tools? Where shall I start?

First, let me share with you the common features and steps that you will see on different Gen AI tools. For the purpose of this demonstration, I will use ChatGPT and Gemini, two of the most common "Text Generation" tools.



For the next part of the learning journey, do ensure you have the following pre-requisites.

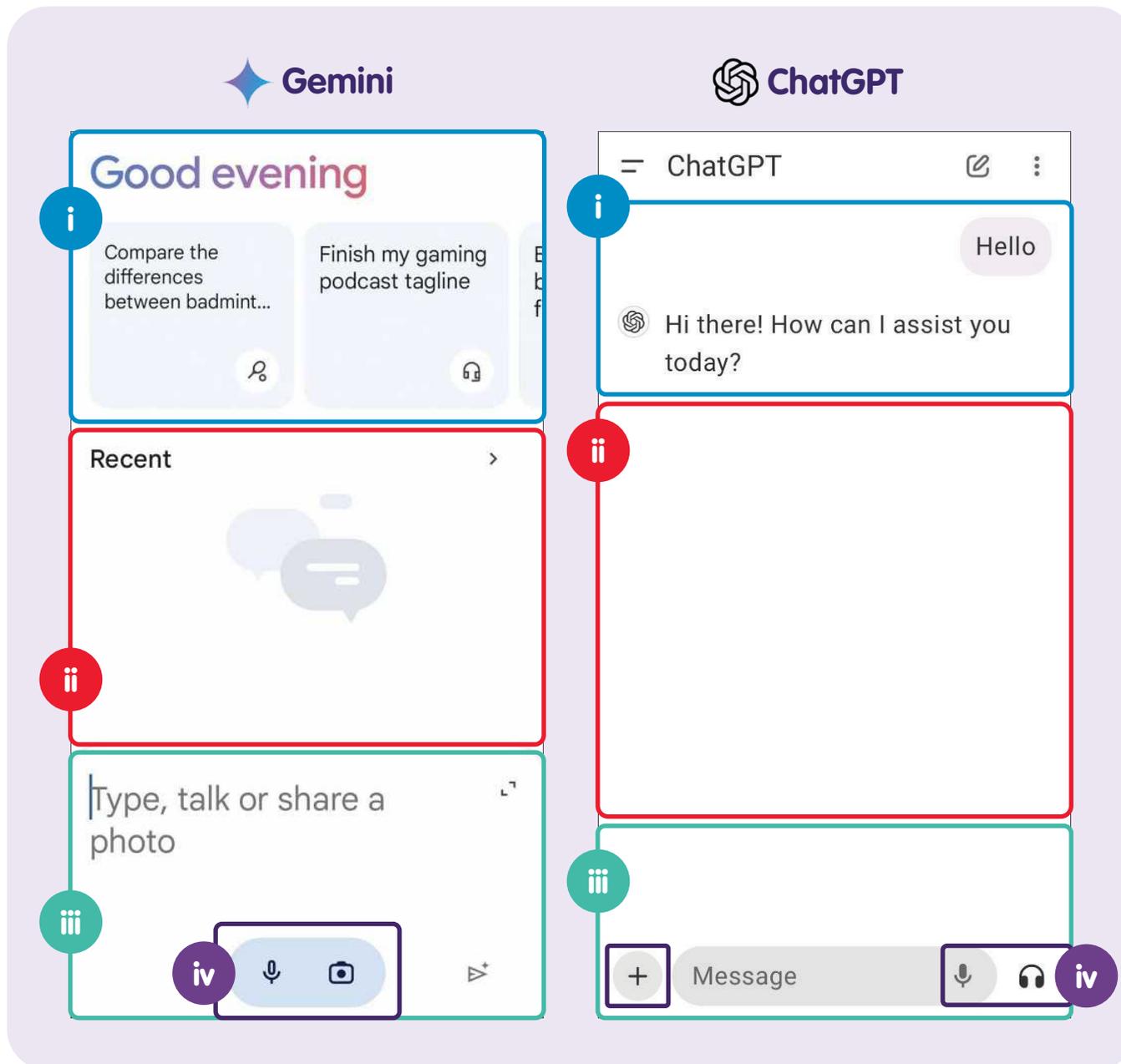
Pre-requisites to learning the app

Learner must:

- Have a mobile device (either iOS or Android) connected to either cellular network or Wi-Fi with a working camera.
- Know how to install an app on the mobile device.
- Have a Google Account or an Email Address.

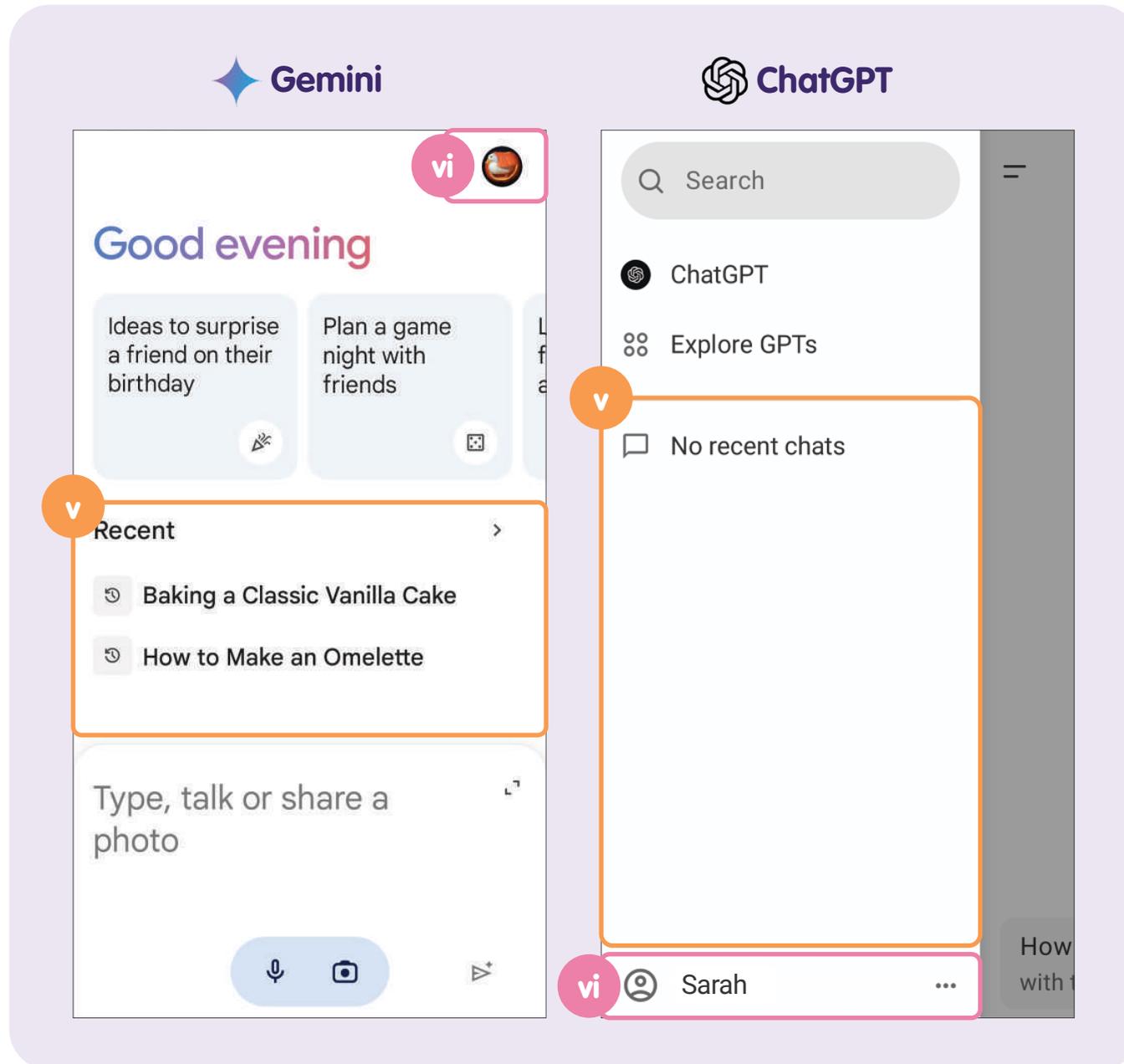
Exploring Common Features Across Gen AI Tools

Exploring Common Features Across Gen AI Tools



- i Greetings and introductions:** Application may greet user at the start of the conversation.
- ii Response area:** Application responds with a text message / image in this area where user can read the application's response.
- iii Text Input Field:** User can enter prompts to the application.
- iv Voice / Image Input:** User can speak to the application and/or insert an image.

Exploring Common Features Across Gen AI Tools



- v Chat History:** User can view the previous chats.
- vi Account Settings:** User can adjust settings such as language.

Navigating Common Steps to Use Gen AI Tools

Download the App and Register for/Sign into an Account Page 17

Manage Settings Page 18

Enter Effective Prompts with a Concept and Structure Page 20

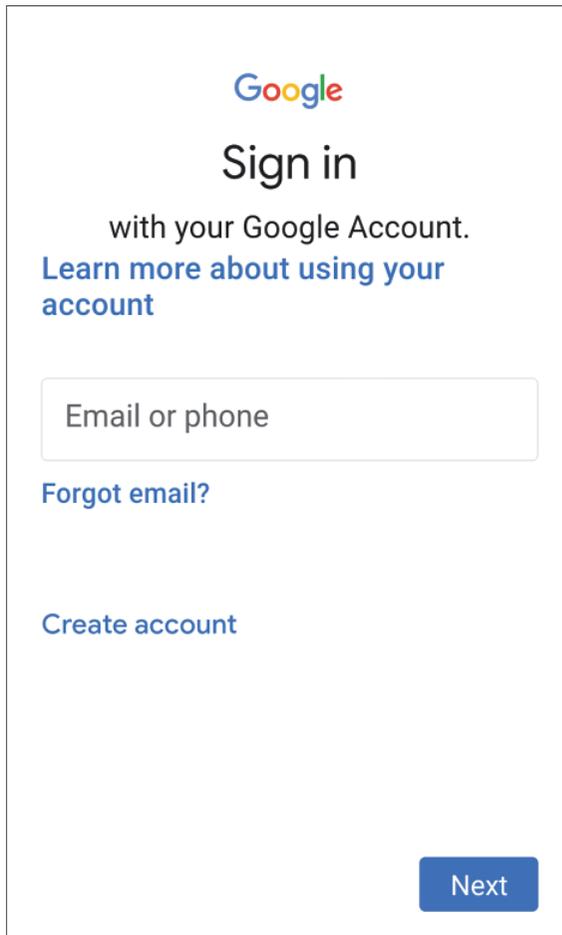
Share/Export Chat Responses Page 24

Clear Chat History Page 26

Navigating Common Steps to Interact with Different Gen AI Tools

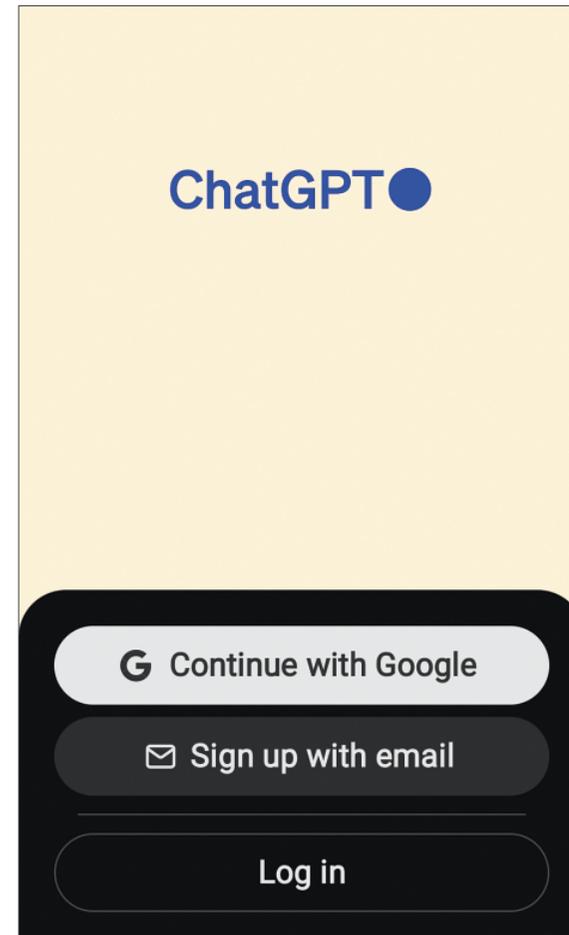
- A** Download the app and register for or sign into an account. If the Gemini app is not available for your device, download the Google app  and visit gemini.google.com.

Gemini



The screenshot shows the Gemini sign-in interface. At the top, the Google logo is displayed in its multi-colored font. Below it, the text "Sign in" is centered, followed by "with your Google Account." and a link "Learn more about using your account". A text input field labeled "Email or phone" is present, with a "Forgot email?" link below it. At the bottom left, there is a "Create account" link, and at the bottom right, there is a blue "Next" button.

ChatGPT



The screenshot shows the ChatGPT sign-in interface. The background is a light yellow gradient. The ChatGPT logo, consisting of the text "ChatGPT" and a blue circle, is centered. At the bottom, there is a dark rounded rectangle containing three buttons: "Continue with Google" (with a Google 'G' icon), "Sign up with email" (with an envelope icon), and "Log in".

Navigating Common Steps to Interact with Different Gen AI Tools

B Manage Settings

Tap on the **"Menu"** icon and go to **"Settings"** if you wish to customise your tools.

1

Good evening

Ideas to surprise a friend on their birthday

Plan a game night with friends

Recent

- Baking a Classic Vanilla Cake
- How to Make an Omelette

Type, talk or share a photo

2

Gemini

JSarah
ksarah@email.com

Google Account

- Gemini Apps activity
- Extensions
- Updates
- Privacy Help Hub
- Switch to Google Assistant
- Settings**
- Feedback
- Help

Privacy Policy · Terms of service

3

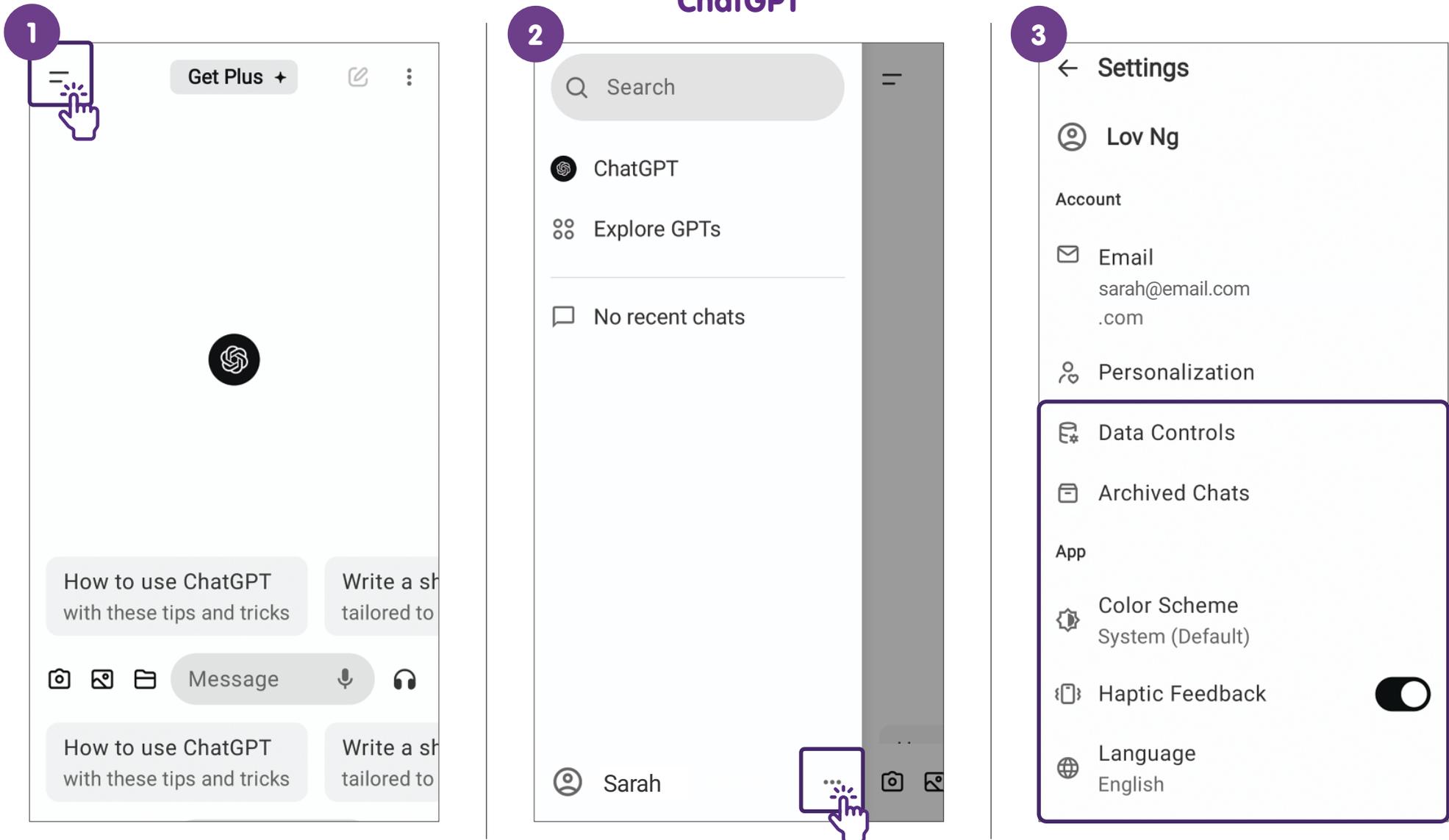
Gemini settings

- Your public links
Control how you share chats and responses
- Languages
For speaking to Gemini
- Screen context
Allow Gemini to capture information on your screen
- Gemini on lock screen
Use Gemini when your device is locked
- Google Assistant features in Gemini
Access features powered by Google Assistant when you use your voice with Gemini

Navigating Common Steps to Interact with Different Gen AI Tools

B Manage Settings

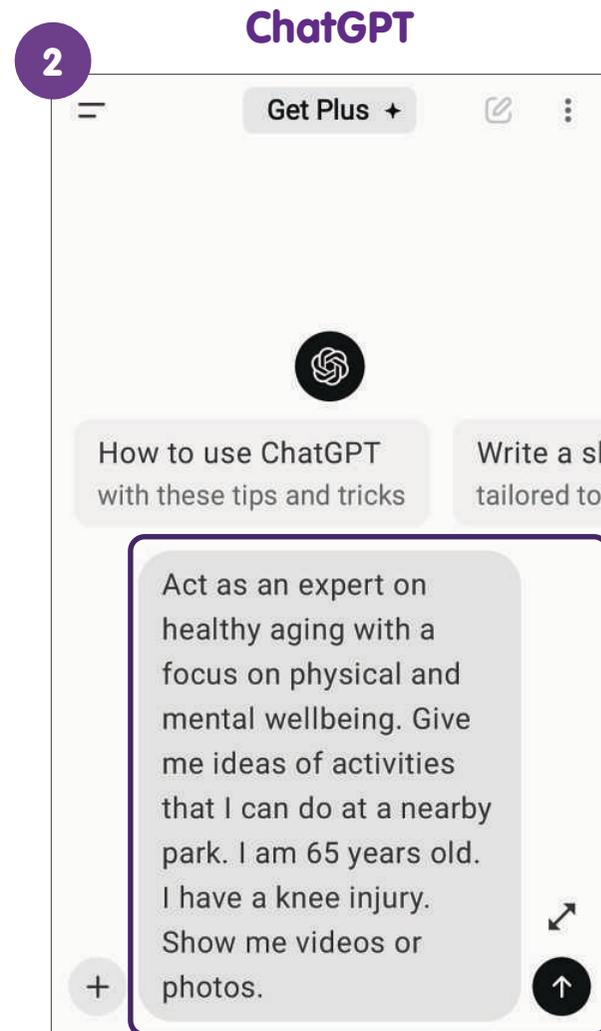
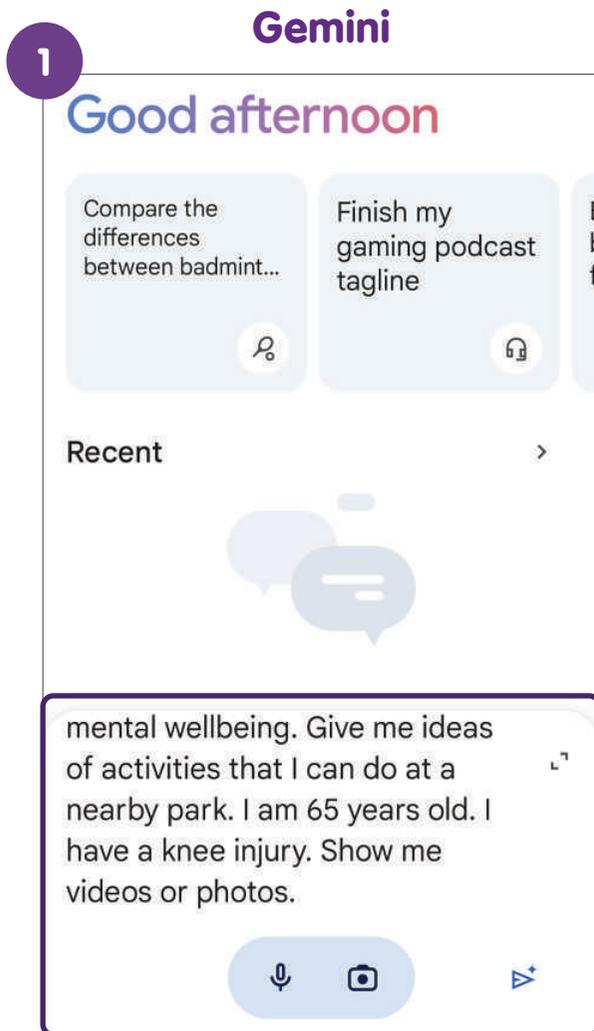
Tap on the "Menu" and the "3-dots" icon to go to "Settings" if you wish to customise your tools.



Navigating Common Steps to Interact with Different Gen AI Tools

A prompt is an instruction you provide to a Gen AI tool to create or explore new content. It can be given in three forms: text, voice, or image. This guidebook will show you how to use all three methods to enter prompts effectively. Crafting a good prompt is key to getting high-quality responses, and we'll guide you through techniques to improve your prompts for the best results.

C Enter your prompts in the “Text input field” and tap on the “Arrow” icon.



 **Simple prompt:**
Suggest some exercises I can do at a nearby park.

 **Good prompt with 5 components:**

Persona: Act as an expert on healthy aging with a focus on physical and mental wellbeing.

Task: Give me ideas of activities that I can do at a nearby park.

Audience: I am 65 years old.

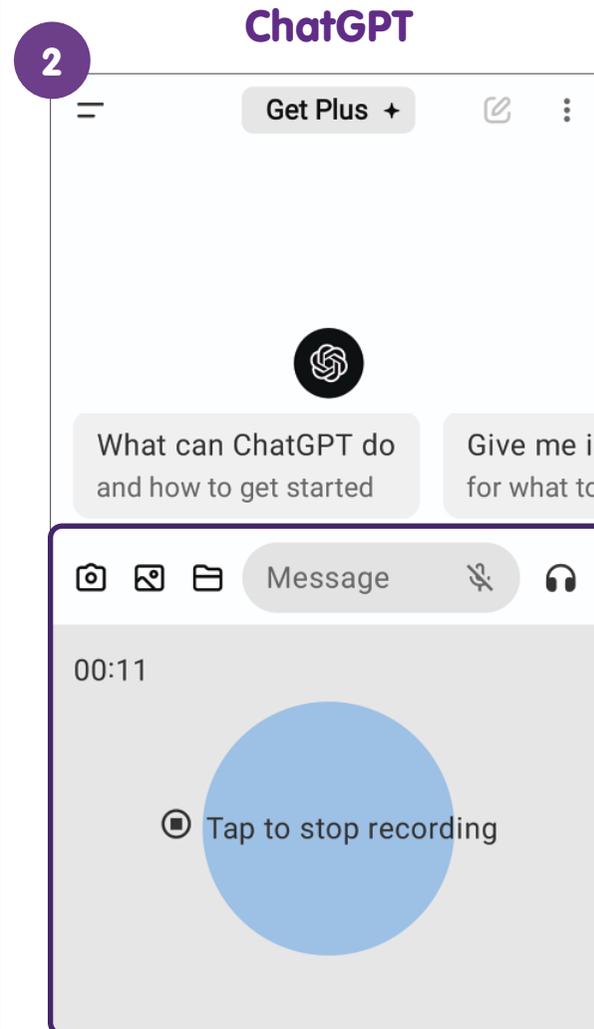
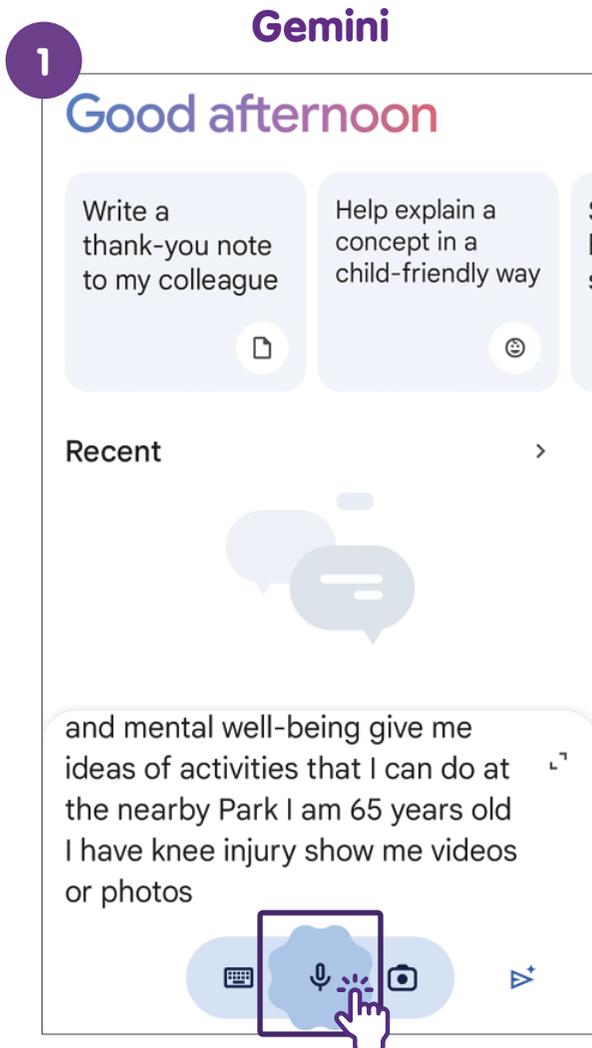
Context: I have a knee injury.

Format: Show me videos or photos.

Navigating Common Steps to Interact with Different Gen AI Tools

D Use voice to enter prompts

Tap the "Mic" icon to speak to the tools and they will be converted into texts.
Tap on the "Arrow" icon to send the prompts.



Simple prompt:
Suggest some exercises I can do at a nearby park.

Good prompt with 5 components:

Persona: Act as an expert on healthy aging with a focus on physical and mental wellbeing.

Task: Give me ideas of activities that I can do at a nearby park.

Audience: I am 65 years old.

Context: I have a knee injury.

Format: Show me videos or photos.

Navigating Common Steps to Interact with Different Gen AI Tools

E Use images with your prompts

Tap either the “Gallery” or the “Camera” icon to upload images or take photos to send as a prompt. Use the same prompt concept or structure if it’s a new prompt.

Gemini

1

Healthy Aging at the Park

Act as an expert on healthy aging with a focus on physical and mental wellbeing. Give me ideas of activities that I can do at a nearby park. I am 65 years old. I have a knee injury. Show me videos or photos.

Healthy Aging at the Park: A Knee-Friendly Approach

Disclaimer: While I can provide general information and suggestions, it's essential to consult with your doctor before starting any new exercise regimen, especially with a

Type, talk or share ...

ChatGPT

1

ChatGPT

Act as an expert on healthy aging with a focus on physical and mental wellbeing. Give me ideas of activities that I can do at a nearby park. I am 65 years old. I have a knee injury. Show me videos or photos.

Sure! Here are some activities you can enjoy at a nearby park, keeping in mind your knee injury and focus on healthy aging:

1. Walking on Smooth Paths

Message

An example of a response generated from the prompt:

2

ChatGPT

Can I do this?

The activity in the image appears to be a shoulder stand, which is an advanced yoga pose. Given your knee injury, it's important to be cautious with activities that could place undue stress on your joints or require significant flexibility and strength.

Message

Prompt Concept & Structure

In addition to the 5 components we shared earlier, here are more tips to help you craft good prompts:

1

Use natural language

Write as if you are speaking to another person. Express thoughts in full sentences.

2

Be specific

Tell the Gen AI tool what you need it to do. Provide as much context as possible.

3

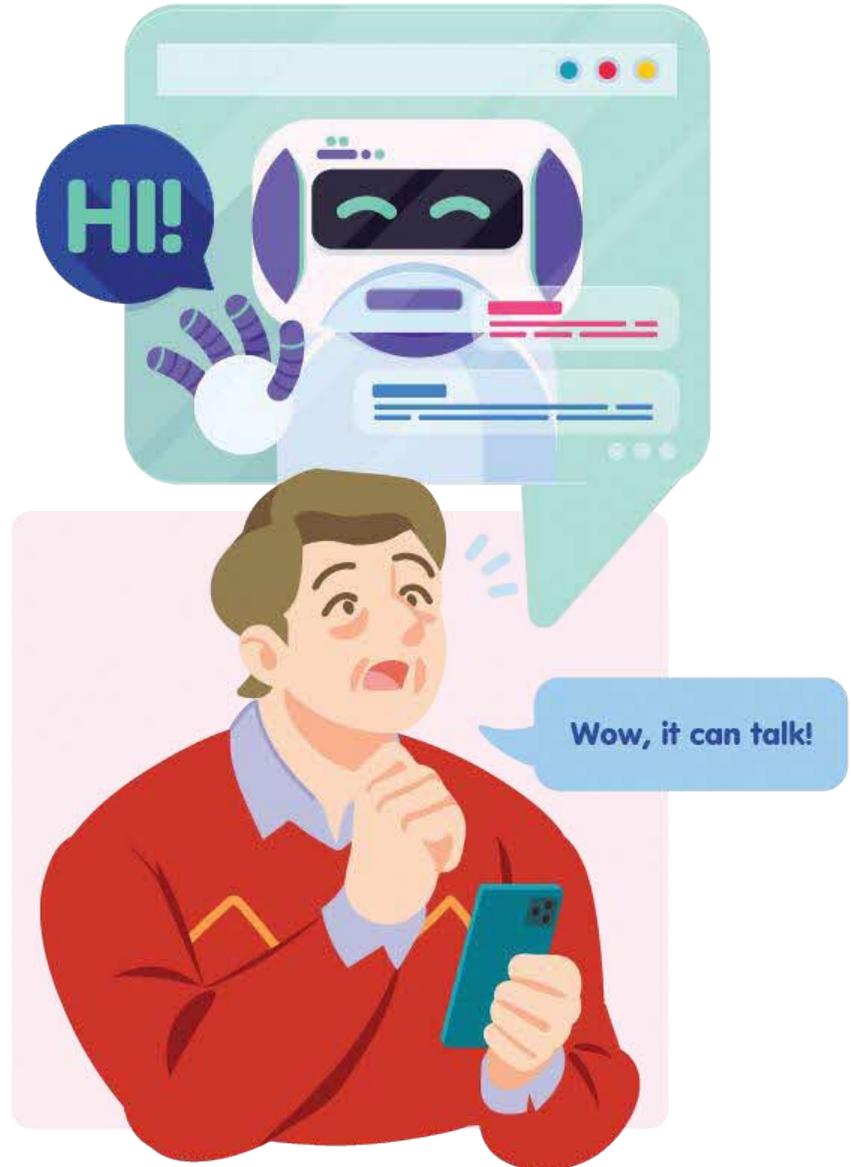
Be concise and clear

Start with clear, direct questions or statements on what you want the Gen AI tool to do.

4

Iterate and keep the conversation going

Fine-tune your prompts if required and use follow-up prompts to get a better response.



Navigating Common Steps to Interact with Different Gen AI Tools

F Share/Export your Responses

Tap on **“Share”** icon and select **“Create public link”**. Then tap on the **“Share”** icon next to the link and select the app you wish to share to.

Gemini

The sequence consists of four screenshots illustrating the steps to share a Gemini response:

- Step 1:** Shows the Gemini chat interface with a response about park exercises. A hand icon points to the share icon in the bottom right corner.
- Step 2:** Shows the share menu that appears after tapping the share icon. A hand icon points to the "Create public link" option.
- Step 3:** Shows the "Public link created" notification with a generated link. A hand icon points to the share icon next to the link.
- Step 4:** Shows the sharing options menu that appears after tapping the share icon next to the link. A hand icon points to the "Quick Share" option.

Navigating Common Steps to Interact with Different Gen AI Tools

F Share/Export your Responses

Tap on the "3-dots" icon and select "Share". Tap "Share Link" and select the app you wish to share to.

ChatGPT

1 Tap on the "3-dots" icon.

2 Tap on "Share".

3 Tap on "Share Link".

4 Tap on the app you wish to share to.

Act as an expert on healthy aging with a focus on physical and mental wellbeing. Give me ideas of activities that I can do at a nearby park. I am 65 years old. I have a knee injury. Show me videos or photos.

Given your knee injury, it's important to focus on activities that are gentle on the joints but still promote overall health. Here are some activities you can do at a nearby park:

Physical Activities:

1. Walking at Surfaces:

Messages sent or received after sharing your link won't be shared. Anyone with the URL will be able to view your shared chat.

Recipients won't be able to view your custom profiles.

Act as an expert on healthy aging with a focus on physical and mental wellbeing. Give me ideas of activities that I can do at a nearby park. I am 65 years old. I have a knee injury. Show me videos or photos.

ChatGPT
https://chatgpt.com/share/4d...

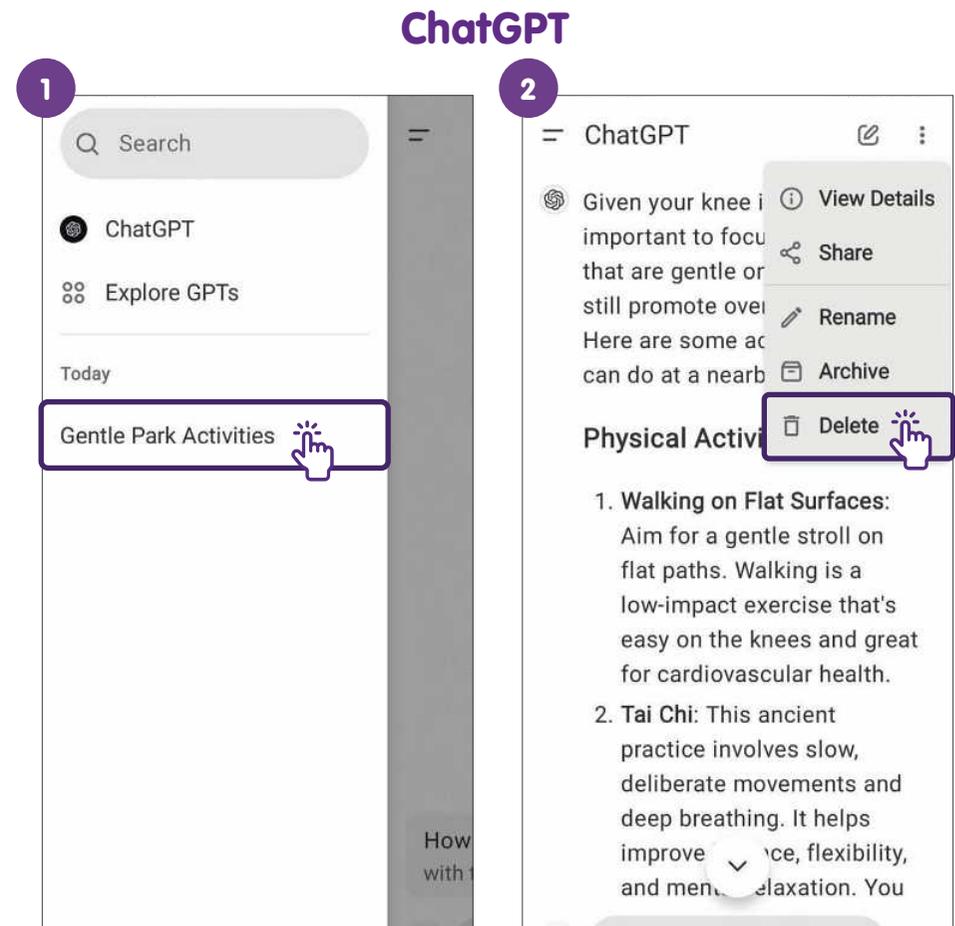
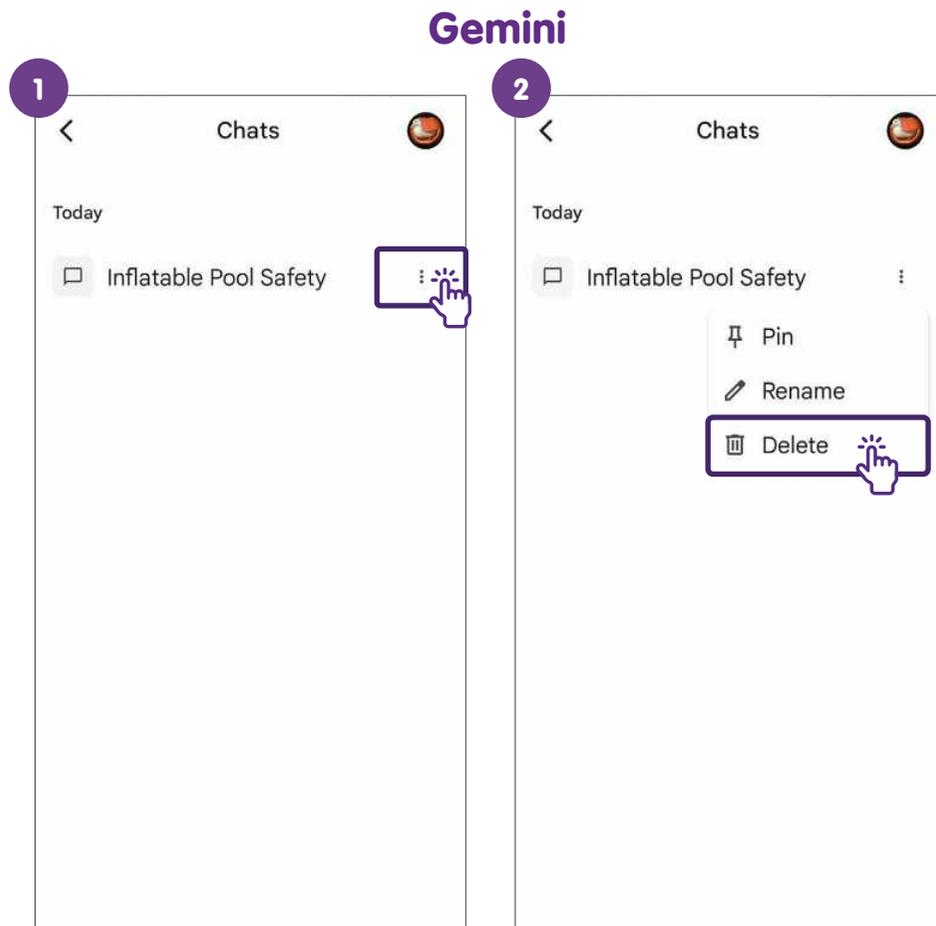
Prompt 2_ export to Doc Delete chat history Prompt 2_ Voice chat Blue Lavenie

Quick Share Drive Telegram WhatsApp Message

Navigating Common Steps to Interact with Different Gen AI Tools

G Clear Chat History

If you wish to clear the chat history, tap on the **"Menu"** icon and select the chat you wish to view. Tap on the **"3-dots"** icon and select **"Delete"**.



Chat with Gemini

After you have gone through how to navigate the common steps across Gen AI tools, here's how you can chat with Gemini from start to end with our step-by-step guide.

Enter Prompts Page 28

Edit Prompts Page 29

Show Drafts Page 30

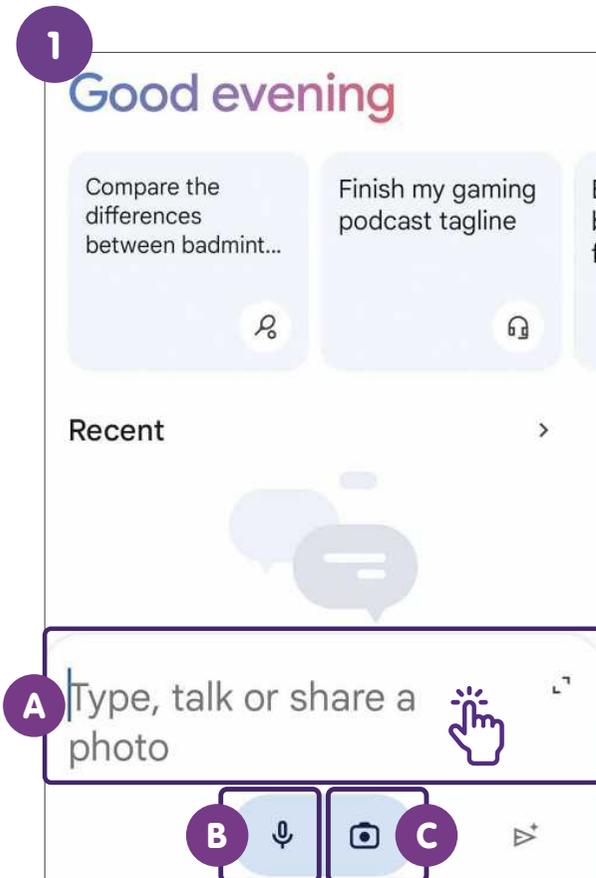
Google It Page 31

Modify Response Page 32

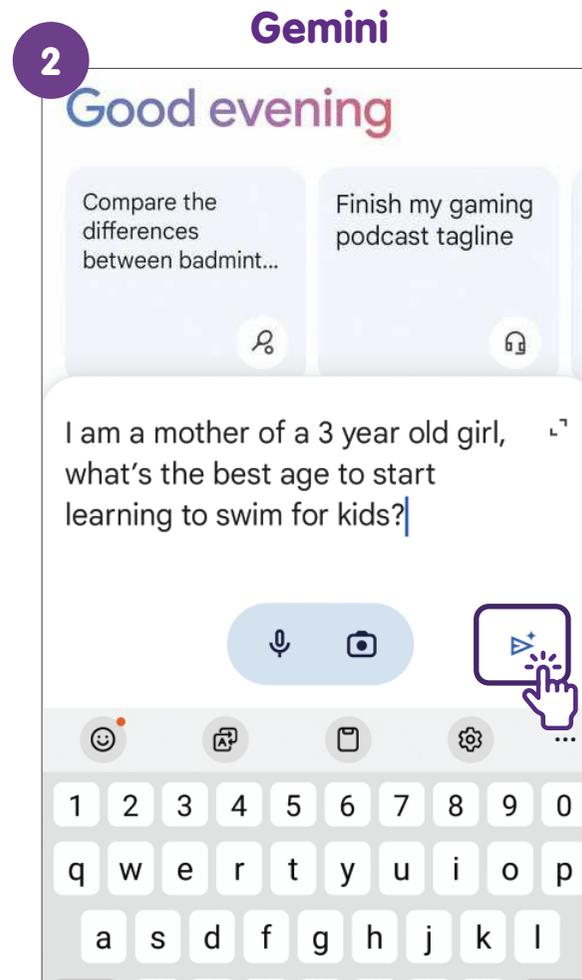
Chat with Gemini - Enter Prompts

For example, you can ask Gemini, "I am a mother of a 3 year old girl, what's the best age to start learning to swim for kids?"

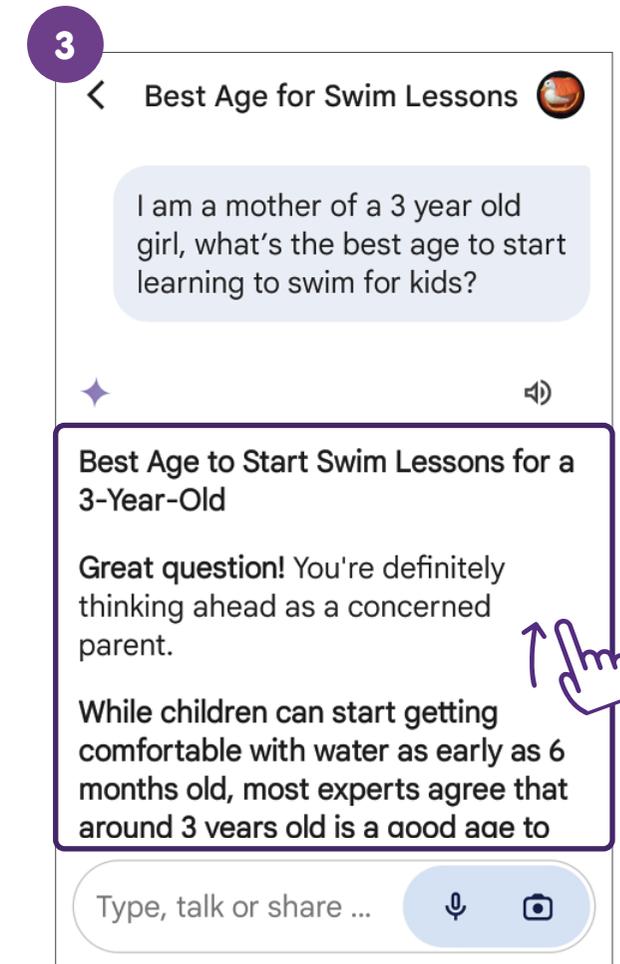
Remember to apply the 5 components of a good prompt, where applicable.



- 3 ways to enter your prompt:
- A. Enter texts in the text input field.
 - B. Tap on the "Mic" icon and speak to the tool.
 - C. Tap on the "Camera" icon to take a photo/insert an image.



Tap on the "Arrow" icon.



The response will be generated.

Chat with Gemini - Edit Prompts

If you want to revise your prompt to Gemini, you can edit it and Gemini will regenerate the response.

Gemini

1

I am a mother of a 3 year old girl, what's the best age to start learning to swim for kids?



Best Age to Start Swim Lessons for a 3-Year-Old

Great question! You're definitely thinking ahead as a concerned parent.

While children can start getting comfortable with water as early as 6 months old, most experts agree that around 3 years old is a good age to begin formal swim lessons.

Type, talk or share ...



Tap on your prompt if you wish to amend.

2

I am a mother of a 3 year old girl, what's the best age to start learning to swim for kids?

Copy

Edit



Best Age to Start Swim Lessons for a 3-Year-Old

Great question! You're definitely thinking ahead as a concerned parent.

While children can start getting comfortable with water as early as 6 months old, most experts agree that around 3 years old is a good age to begin formal swim lessons.

Type, talk or share ...



Tap on the "Pen" icon to edit your prompt if you wish to amend.

3

I am a mother of a 3 year old girl, what's the best age to start learning to swim for kids? She is fearful of water.



Best Age to Start Swimming Lessons and Overcoming Fear

Great question! It's wonderful that you're considering swimming lessons for your 3-year-old.

When to Start Swimming Lessons

While children can start getting comfortable with water as early as infancy, most experts agree that



Type, talk or share ...

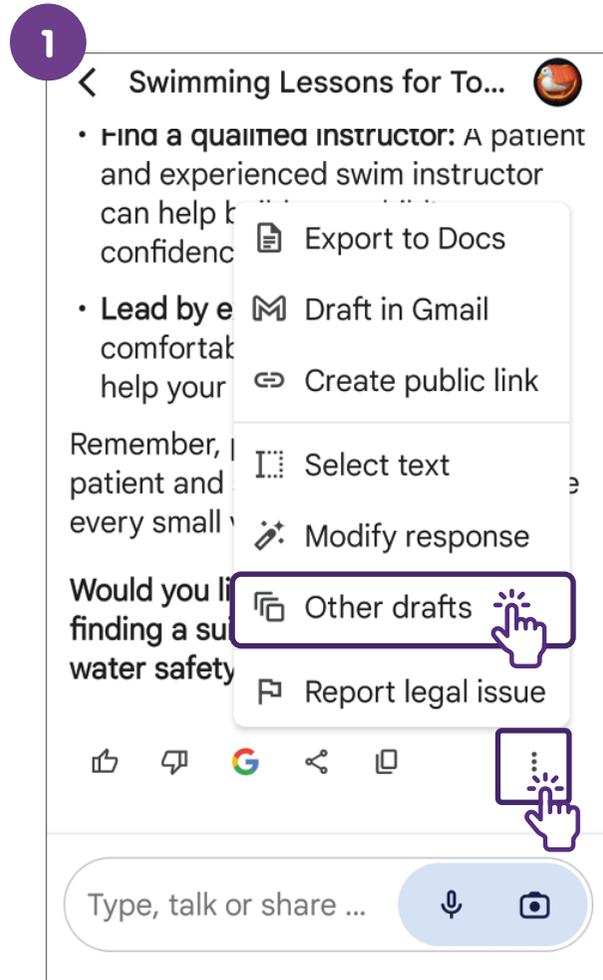


The response will be regenerated.

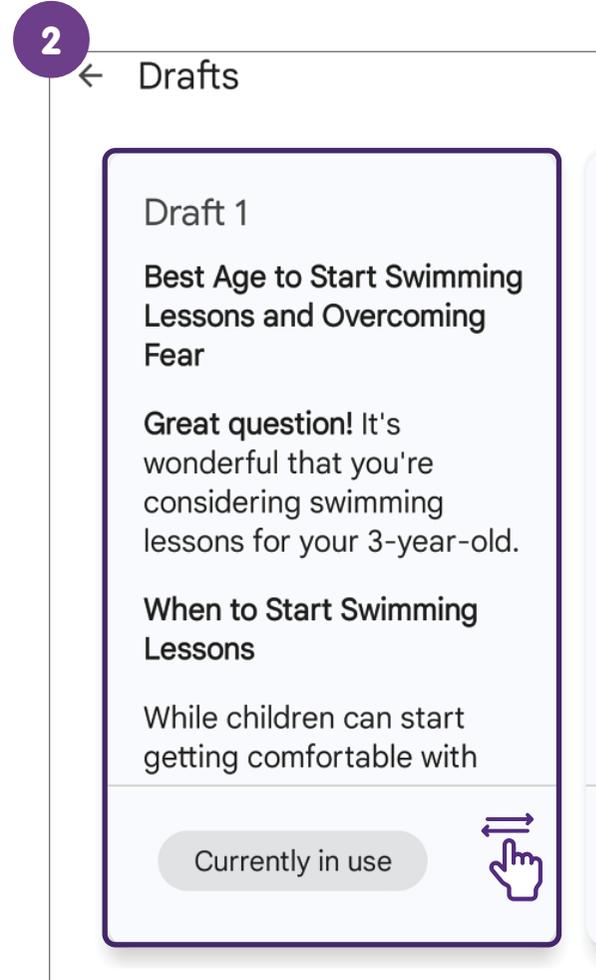
Chat with Gemini - Show Drafts

After entering your prompt, Gemini will generate a few drafts. You can pick the best draft to continue your chat with Gemini.

Gemini



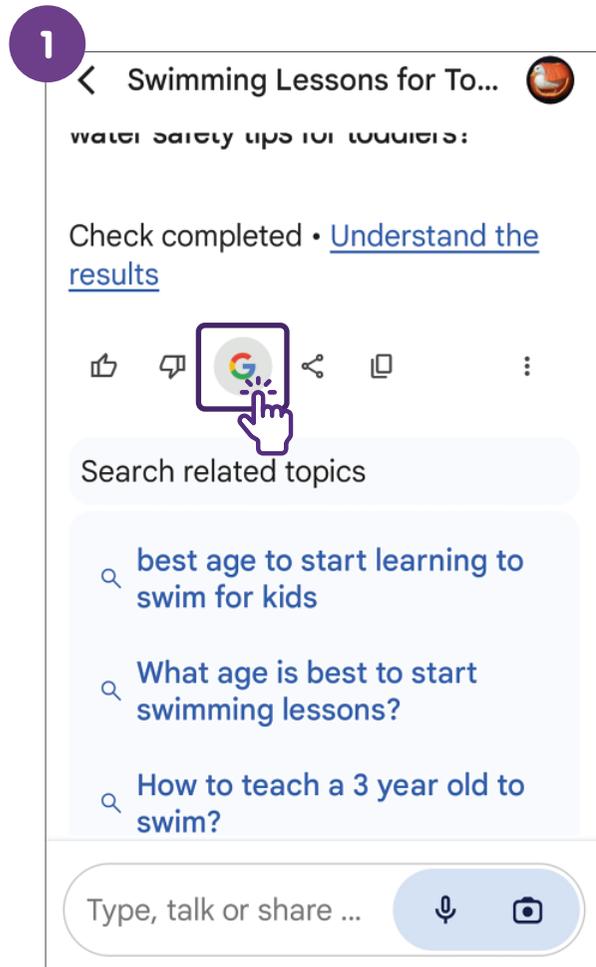
Tap on the "3-dots" icon and tap on "Other drafts".



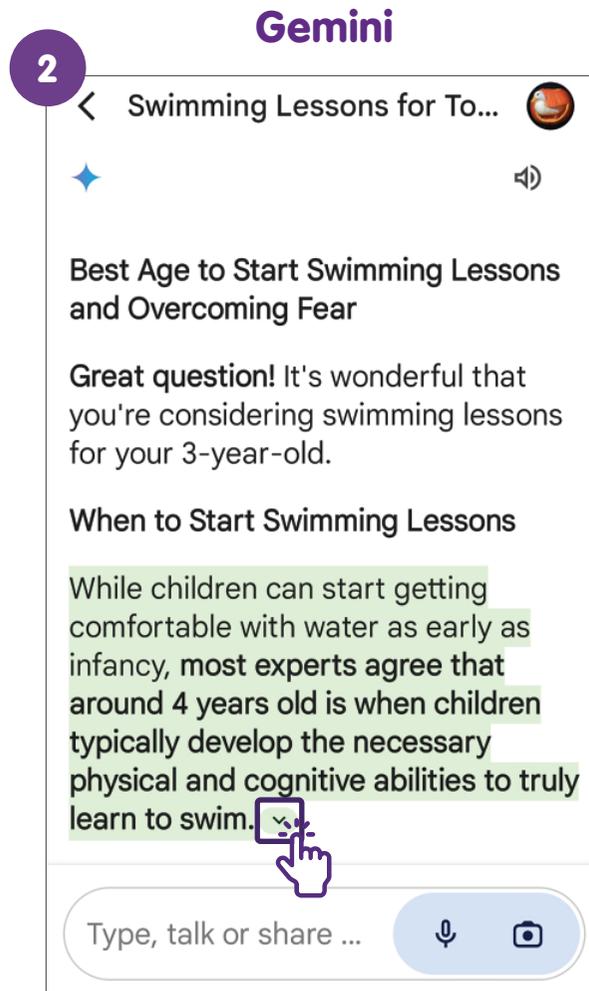
Swipe right to see more drafts. Select the draft that is best for you.

Chat with Gemini - Google It

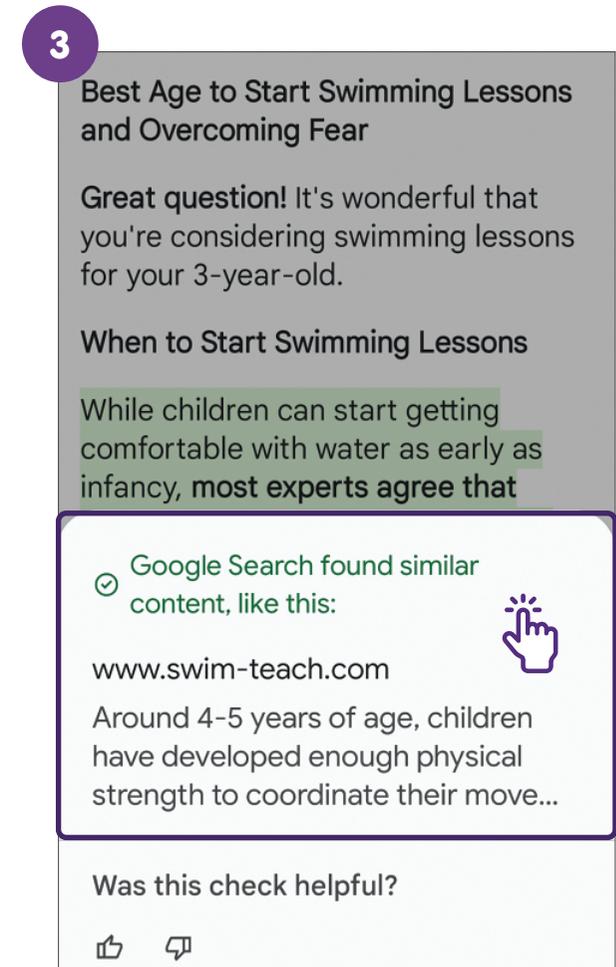
Gemini includes a button to make it easy for you to double-check responses or explore sources on the web. When you tap "Google It", Gemini provides suggestions for Google Search queries. You can tap on the link to visit the website to read more.



Scroll down and you will see the "Google" icon, tap on it.



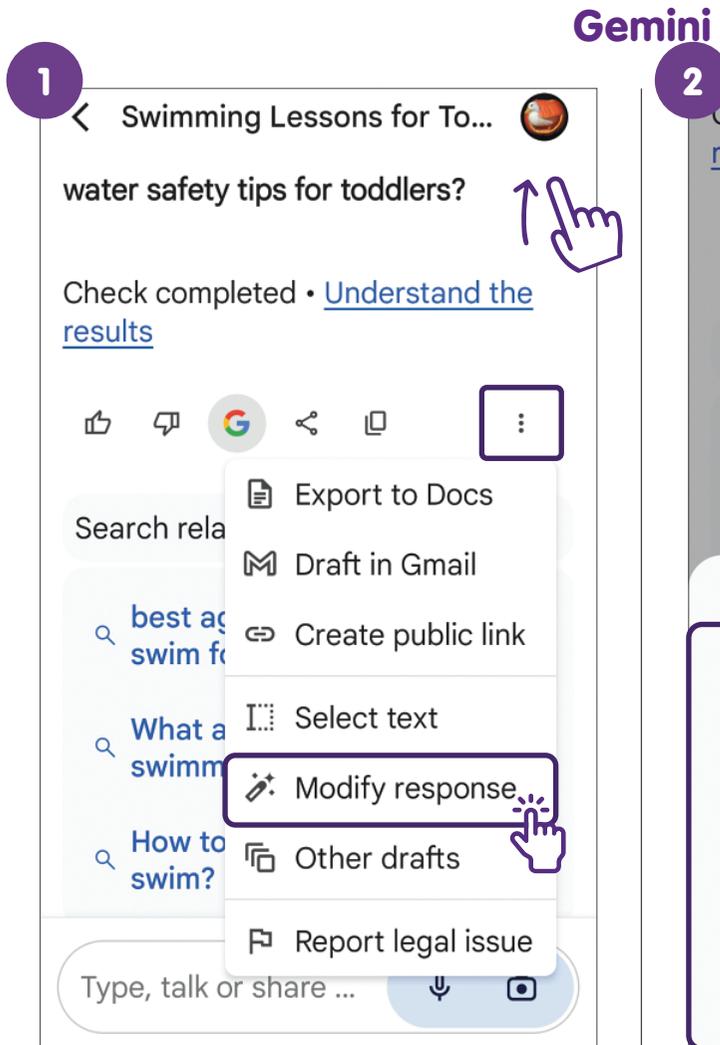
Suggestions for Google Search queries will be highlighted. Tap on the "Arrow".



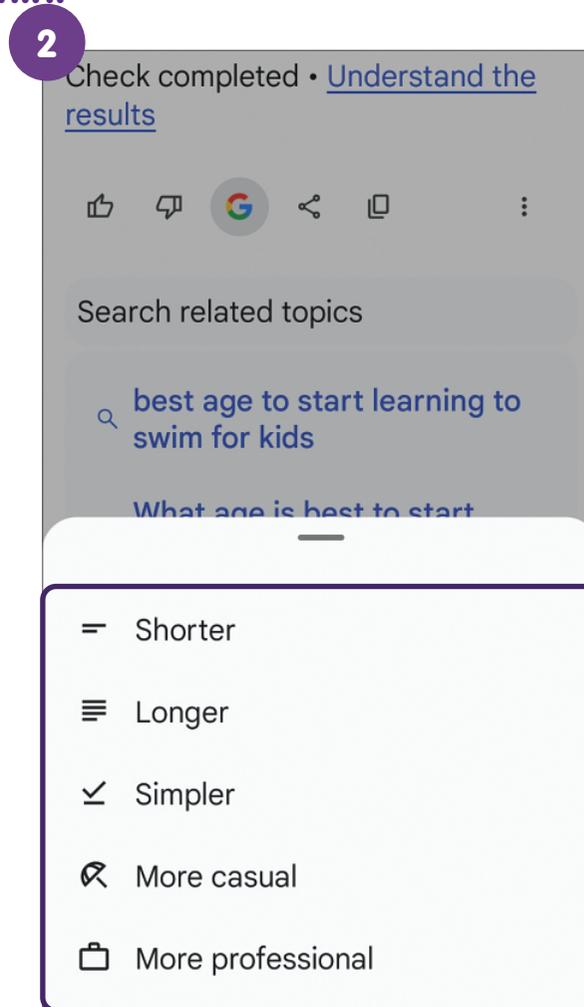
Tap on the query and you will be brought to the website.

Chat with Gemini - Modify Response

You have the option to modify responses in part or in full, to suit your desired outcomes. You can use this feature to shorten, lengthen, simplify, making the tone more casual or professional by tapping on the "3-dots" icon. Tap on "Modify response" to see your options.



Scroll down and tap on the icon.
Select **"Modify response"**.



Select your choice.

Modify Response

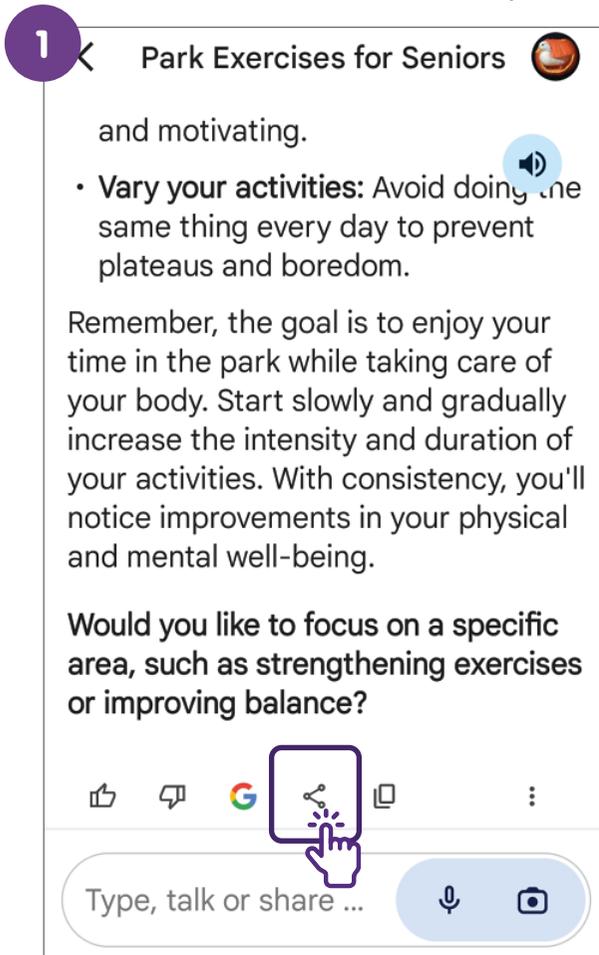
You can modify a response:

- **To adjust the length:**
Tap **"Shorter"** or **"Longer"**.
- **To simplify the language:**
Tap **"Simpler"**.
- **To adjust the tone:**
Tap **"More casual"** or **"More professional"**.

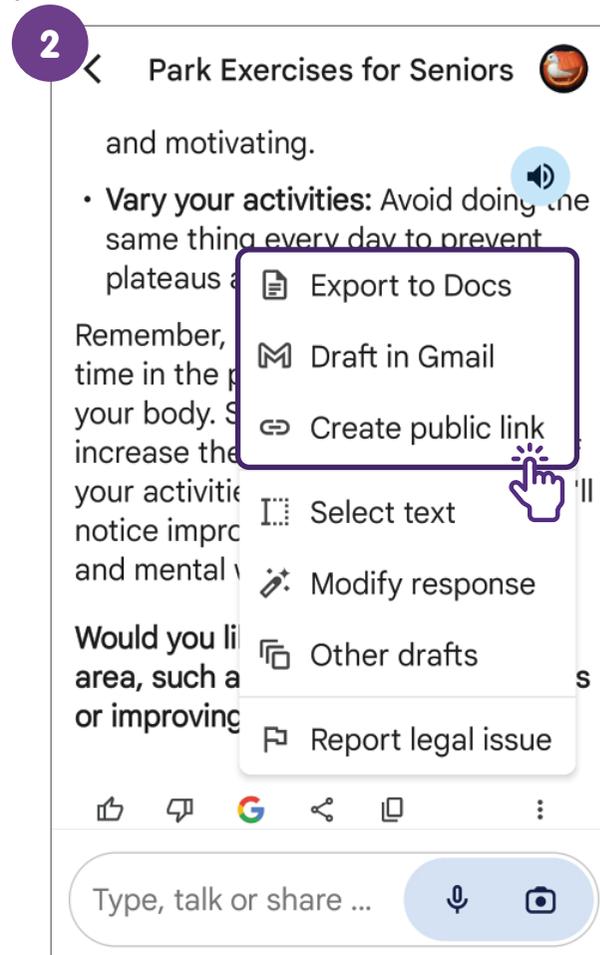
Chat with Gemini - Export Response and Clear Chat History

Gemini

Export Response

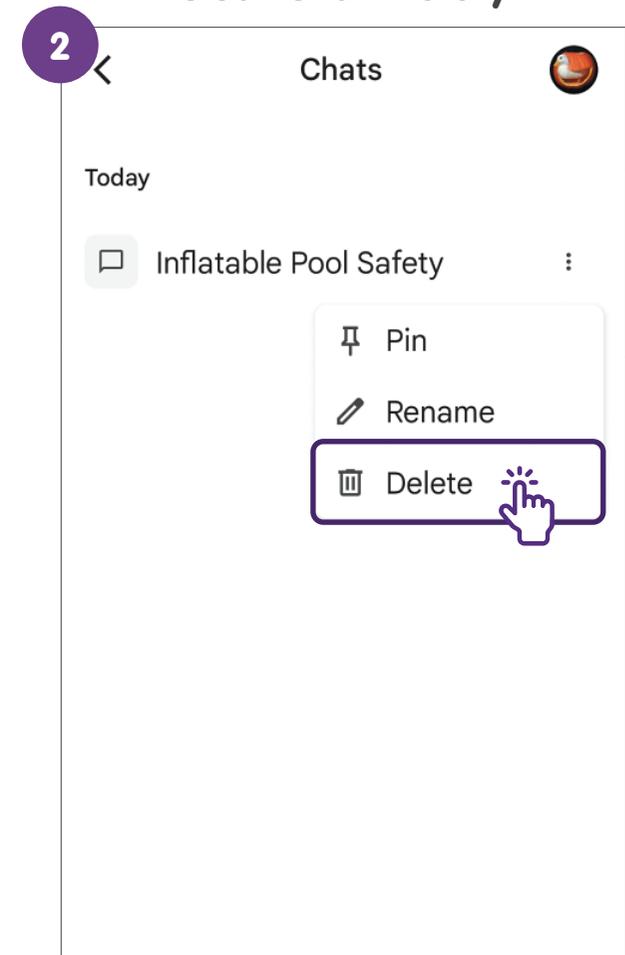


Scroll down and tap on the icon.



Select **"Create public link"** if you wish to share as a sharable link. You can also either select **"Export to Docs"** or have the response appear as a **"Draft in Gmail"**.

Clear Chat History



Tap on the **"Menu"** icon and select the chat you wish to clear. Tap on the **"3-dots"** icon and select **"Delete"**.

Hands On Activity!

Quiz Time: Which is a Better Prompt?

Page 35

Try it Yourself!

Page 37

Quiz Time!

Which is a better prompt, Prompt A or B?

- 1 You want to make healthy meals weekly for your 5-year-old girl but are out of ideas.

Prompt A

I'm a mom looking to create a healthy weekly meal plan for my picky 5-year-old daughter. Generate a plan with breakfast, lunch, dinner, and snack options for each day, presented in a bulleted list.

Prompt B

Give me ideas on what to cook for my daughter.

Quiz Time!

Which is a better prompt, Prompt A or B?

- 1 You want to make healthy meals weekly for your 5-year-old girl but are out of ideas.

Prompt A

I'm a mom looking to create a healthy weekly meal plan for my picky 5-year-old daughter. Generate a plan with breakfast, lunch, dinner, and snack options for each day, presented in a bulleted list.

Persona

Context

Audience

Task

Format

Prompt B

Give me ideas on what to cook for my daughter.



Try it Yourself!

Pick one of the following and try to improve the prompts using the following structure:

Persona

Context

Audience

Task

Format

- 1 I want to learn painting. Give me a guide on how to get started. Show me an image of the sample painting.
- 2 Help me come up with interesting ideas to organise a birthday party for my friend. Give me images of some decorative ideas for the party.

Try it Yourself!

Persona

Context

Audience

Task

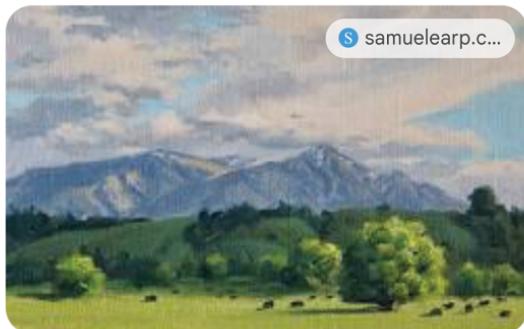
Format

1

Suggested prompt:

Act as my painting tutor. I want to learn painting. I have no prior painting experience and want to focus on techniques and materials that are easy to find. Provide a step-by-step guide for a simple painting project, including a list of materials, instructions, and tips for beginners. Show me an image of the sample painting.

Here's a simple landscape painting as an example:



simple landscape painting with a tree on a hill and a blu...

Tips for Beginners:

- Don't be afraid to make mistakes.

2

Suggested prompt:

Act as an event planner. I am organising a birthday party for my best friend. Her favourite things to do are scuba diving, watching comedy shows and spending time with her dog. Help me come up with some interesting themes and activities that we can design this birthday party around. Present the ideas in bullet form. Give me images of some decorative ideas for the party.



Laugh Out Loud Comedy Night birthday party decor...

3. Paw-some Pup Party

- **Decorations:**
 - Dog-themed decorations like paw

Understanding and Managing Risks of Gen AI

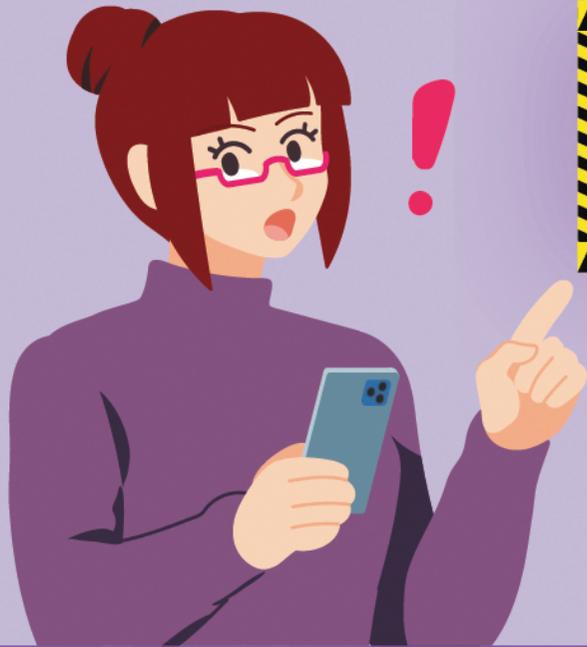
Be Safe: Recognising the Risks of Gen AI Page 41

Be Smart: Strategies for Managing Gen AI Risks Page 46

Have Fun with Gen AI! Page 50

I need to highlight some important facts to you. While Gen AI offers numerous benefits, it also presents several risks and challenges that we need to address and safeguard against.

Thanks for telling me! What are the important tips to take note of?



Let me share some of the risks associated with Gen AI.

AI



Be Safe: Recognising the Risks of Gen AI

1 Data Privacy Concerns

No sensitive information, including personal or company data, should be used in your prompts. Sharing such details could lead to unintended use in ways you might not expect.

2 Hallucination and Unintentional Harms

An AI hallucination is when **a generative AI model generates inaccurate information but presents it as if it were correct**. This can cause problems for users in these ways:

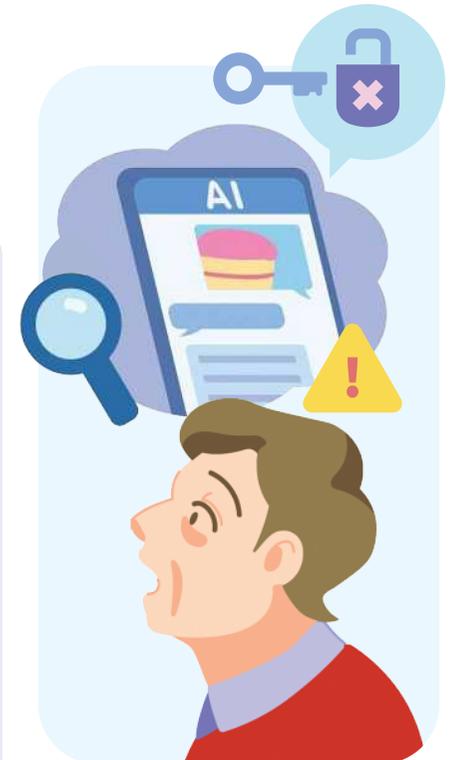
- **Misinformation:** Users might believe and act on false information.
- **User Harm:** Risk of harm from inaccurate advice (e.g. believing in false medical and financial advice).

✗ Inaccurate Advice

★ AI Overview

Learn more ⋮

Doctors recommend smoking **2-3 cigarettes per day during pregnancy.**



3 Copyright Issues

- It is hard to know who owns content made by AI because the technology is improving fast.
- Avoid using AI outputs that might copy existing works.
- When in doubt, ask for permission from the original creator and cite your sources.

4 Spreading Misinformation

- Gen AI can create untrue information or misleading content.
- It can produce news articles, videos, or pictures that look real, but are not.

What are Deepfakes?

- Deepfakes are fake images, videos, and sounds that look very real.
- It can also be used to create believable scams, taking advantage of people's trust and personal details.



Be Safe: Recognising the Risks of Gen AI

5 common types of AI-generated misinformation:

1 Text

Creating fake text imitating someone's writing style, used for spreading misinformation.

✗ Misinformation

Who was the sole survivor of Titanic?

The sole survivor of the Titanic was a young cabin boy named William Archer, who miraculously floated to safety on a large wooden door after the ship sank. Despite the freezing cold waters, he was discovered three days later by a passing ship, clinging to life but alive. His incredible story became legendary, and he lived to be 103, sharing his tale with future generations.

2 Video

Making realistic videos by swapping faces, often used for entertainment or spreading misinformation.

Scan the QR code below to see an example:



3 Images

Editing pictures to change appearances, often widely used on social media.



4

Audio

Creating voice recordings that mimic someone's voice, often used for deception.

Scan the QR code below to see an example:



5

Real-time / Live

Generating instant audio and video copies, often used for immersive experience or controlling others.

Scan the QR code below to see an example:





How do we safeguard ourselves against these risks?

You can use the National Library Board's (NLB) S.U.R.E. framework to identify tell-tale signs, or analyse audio-visual elements with tips from the Cyber Security Agency of Singapore (CSA).

S.U.R.E.

Be Smart: Strategies for Managing Gen AI Risks

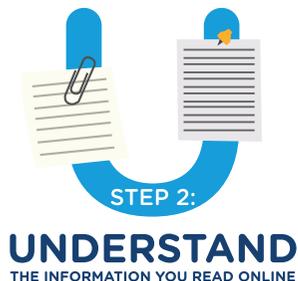
How to Spot AI-generated Misinformation



Look at its origins. Are they trustworthy?

Make sure that the source of information is credible and reliable (e.g. established newspapers or reputable news websites).

- **Look for telltale signs**
Example: AI chatbots may include lines like “As an AI language model...”
- **Double check all references** cited in the article to verify that they really exist. Chatbots are known to make up information that may seem real superficially.
- **Verify that credited authors** are real people.



Know what you're reading. Search for clarity.

Look for facts rather than opinions. Question personal biases.

- **Not all AI generated content are “fake news”.** Seek to understand the wider context and intentions behind them, e.g. is it to inform, persuade or mislead?
- Be aware that **even experts like photography judges have failed to detect AI generated images** as technology advances.
- **AI generated misinformation is an evolving challenge**, and it's essential to remain vigilant, informed, and adaptable in the face of new developments.

Be Smart: Strategies for Managing Gen AI Risks

How to Spot AI-generated Misinformation



Dig deeper. Go beyond the initial source.

Investigate thoroughly before making a conclusion. Check and compare with multiple sources.

- **Dig deeper**
Do an online search with the title of the suspicious content to see if it was mentioned in the news or other credible sites. Find at least two or more credible news sources to confirm.
- Learn to **use AI-enabled tools** to help identify AI-generated text and images. For examples of such tools, head to <https://go.gov.sg/nlb-sure-genai> and click **"AI Fact-checking tools"**.
- **Conventional fact-checking skills are still important.** Where AI tools fail, a simple Google search may reveal the truth.



Find the balance. Exercise fair judgement.

Look from different angles. There are at least two sides to every story.

- **Two sides to a story**
Some posts may be biased and not reflect the actual incident. There may be another side to the story.
- **Exercise critical thinking** and employ a skeptical mindset.
- **Look for inconsistencies or conflicting information.**

Be Smart: Strategies for Managing Gen AI Risks

How to Spot AI-generated Misinformation

Analyse Audio-Visual Elements to spot Deepfakes.

Audio-Visual Elements

Description

1 Facial features

- Blurring around edges of the face, facial features, or the side profile.
- Uneven resolution and unnatural shadows around facial features.
- Unnatural edges around features.

2 Expression & eye movement

- Unnatural or lack of blinking.
- Inconsistent light reflection in eyes.
- Unnatural facial expression.

3 Skin texture & skin tone

- Unnatural or inconsistent skin colour tone.
- Differences in resolution and skin textures.

4 Background consistency

- Blurred, out of focus or distorted areas in the background.

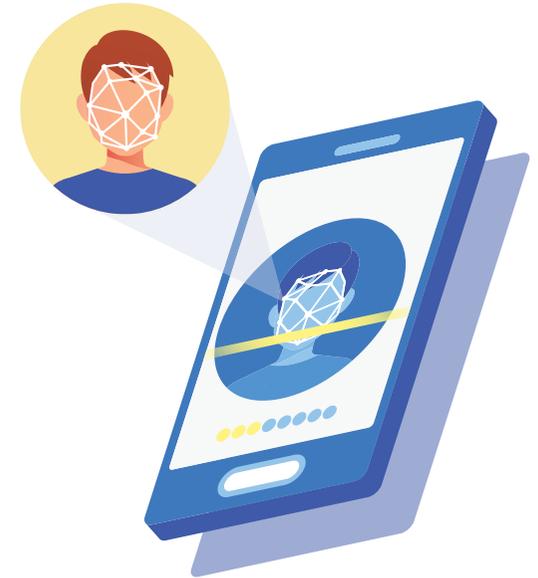
5 Audio-video consistency

- Lips not synchronised with speech.
- Limited variance in tone inflection.
- Incongruent background noise.

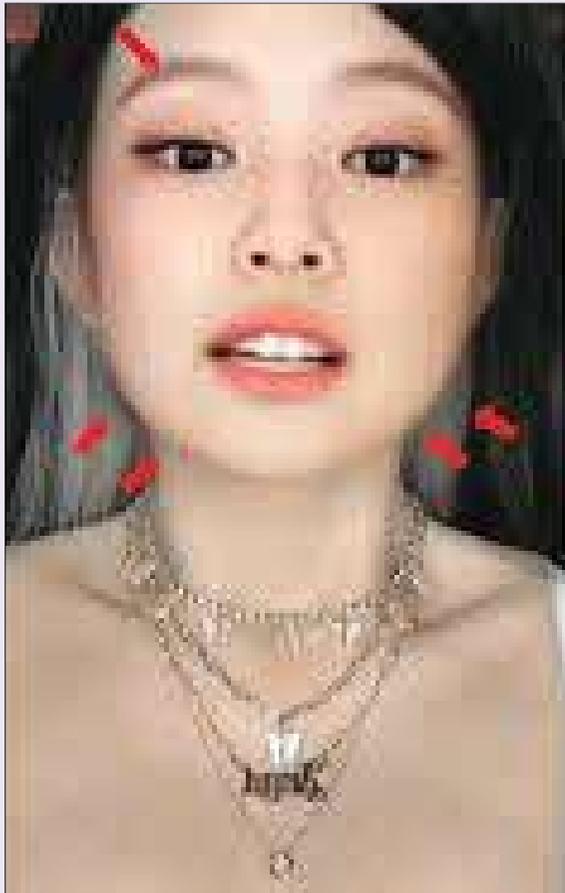
Be Smart: Strategies for Managing Gen AI Risks

How to Spot AI-generated Misinformation

Example: Audio-Visual Elements to spot Deepfakes



Audio/visual examination on videos



TikTok user performing face swap of Jennie (K-Pop girl group BlackPink).
Video taken from TikTok.



Image taken from vogue.sg for comparison.

Obvious areas:

- Lack of definition in eyebrows.
- Jawline that is different from source picture.
- Inconsistent and slight blurring around the edges of the face.
- Difference in the resolution of the face from different parts of the body.

Try to spot these audio-visual elements!
Scan the QR code below to watch the video:



Have Fun with Gen AI!

Test your ability to spot AI-generated images with NLB's online quizzes on Kahoot.

Scan the QR codes below to challenge yourself!





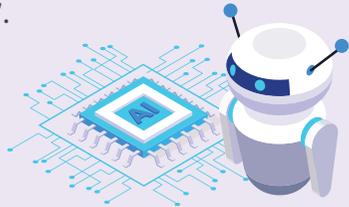
Thanks for the Gen AI lesson! I learned a lot. I'm excited to dive in and explore more on my own.

You're welcome. Enjoy your journey with Gen AI!

5 Essentials to Know about Gen AI

1 Gen AI is a Type of AI Technology

Gen AI is a subset of AI that focuses on creating new content by learning from existing data. While traditional AI is designed to make predictions and decisions based on data, Gen AI goes a step further by producing original content. Gen AI may interact with you like a human, but it is not. It is an AI technology.



2 Gen AI can Create a Wide Range of Content

- Gen AI can produce new content such as text, images, and audio based on the prompts you provide.
- For example, you can use Gen AI to draft an email, design a healthy meal plan, compose music, or create videos. The possibilities are vast, but the quality of the output depends on how well you guide the AI.



3 Gen AI has its Risks

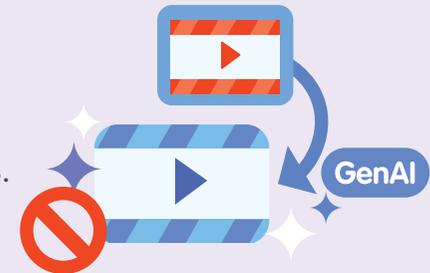
Privacy

Be cautious about sharing personal information online, as Gen AI can misuse it if not securely handled.



Copyright

Avoid using AI to create or share content that infringes on copyrights. Credit original creators and use content responsibly.



Misinformation

Gen AI can generate highly convincing content, such as deepfakes, that spread misinformation.

Hallucination

Sometimes, Gen AI can hallucinate by producing convincing yet false content.



4 Stay Safe: Recognise AI-generated Misinformation

Use the National Library Board's S.U.R.E. framework to assess online content:

- S** • Check the SOURCE
- U** • UNDERSTAND the Content
- R** • RESEARCH the Authenticity
- E** • Evaluate from Different Angles



5 Stay Safe: Spot Deepfakes

Analyse audio-visual elements with these tips adapted from the Cyber Security Agency of Singapore:

- Check for unnatural facial features, expressions, and eye movements.
- Look for inconsistent skin texture and tone anomalies.
- Ensure background consistency and audio-video sync.



Real Video



Deepfake

As Gen AI evolves, it will increasingly influence our daily lives, providing new conveniences alongside potential risks. Stay informed about these developments and use Gen AI responsibly to maximise its benefits while minimising risks.

5 Tips for Writing Effective Prompts



1 Structure your prompts with the following:

Persona

Context

Audience

Task

Format

2 Use natural language

Explain to me...

Sure! Here's how...

3 Be specific

Best burger restaurant recommendation near me, with a 5* rating? 

Sure, here's a restaurant recommendation. 

4 Be concise and clear

Search for...

How to...

Explain...

5 Iterate and keep the conversation going

Can you explain...

Sure, here's how...

Show some example...

**For more information and
to find your nearest SG
Digital community hubs:**

IMDA Contact Centre

Hotline: +65 6377 3800

Email: info@imda.gov.sg

Website: digitalforlife.gov.sg

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