

# Power Mobile Learning with ChatGPT

Paul Clothier





**Discover a few useful tips and techniques.**





# Download session content

- Presentation slides
- Sample prompts
- *Designing with generative AI*



[paulclothier.com/devlearn](https://paulclothier.com/devlearn)



# Mobile learning design is different

- Consider context
- Deliver quick, useful content
- Adapt to limited screen space
- Design for short attention spans
- Distill and chunk content.



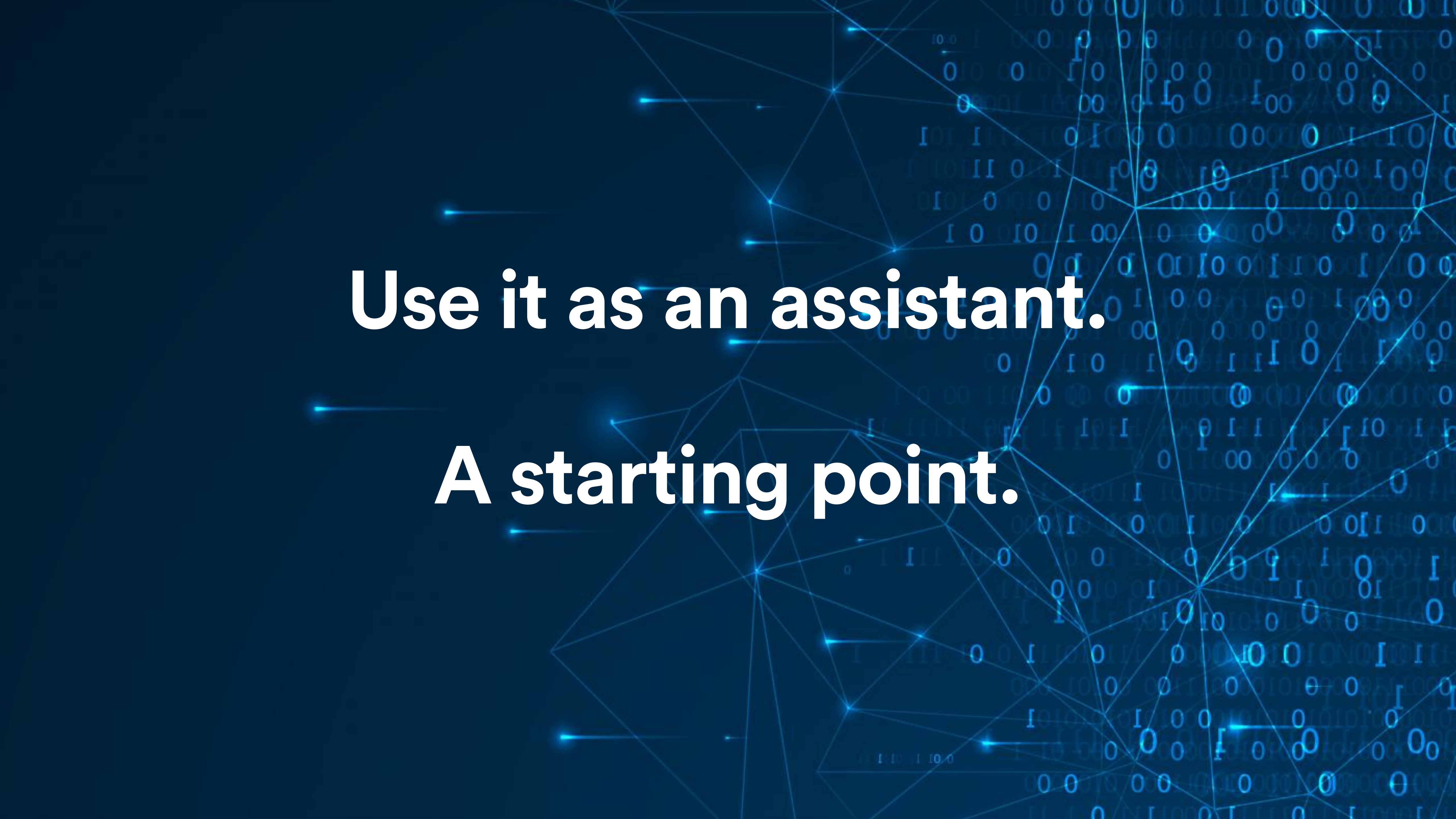


# How can ChatGPT help?

- Generate ideas/brainstorm
- Draft questions and assessments
- Personalize content
- Suggest stories/scenarios
- Design gamification
- Create images.







**Use it as an assistant.**

**A starting point.**



# Good prompting is the key

Be clear

Be specific

Specify format

Refine

Give examples

Give context

Define the role

Check & Verify

Ask chatGPT





# Some prompts are simplified

*Write 3 mobile-friendly learning screens to teach employees how to create strong passwords*

*Create a 3-screen mobile learning module for office employees on how to create strong passwords. Each screen should include a clear heading, concise explanation (no more than 100 words), and a practical tip or example. Use simple, friendly language suitable for non-technical staff. At the end of the third screen, include a short reflection question to reinforce the learning.*



# Content preparation

The background is a dark blue gradient. It features a complex network of thin, light blue lines that intersect at various points, creating a web-like structure. Scattered throughout this network are small, bright blue dots and horizontal streaks, resembling digital signals or data points. In the upper right quadrant, there is a faint, semi-transparent pattern of binary code (0s and 1s) in a light blue color, which appears to be part of the overall digital theme.



# Subject matter: dense content

*“Summarize the key points of this research PDF in a simple, clear, and easy-to-understand way. Focus on the main findings, key concepts, and practical implications.”*



Search Wikipedia Search Donate Create account Log in

## Quantum computing

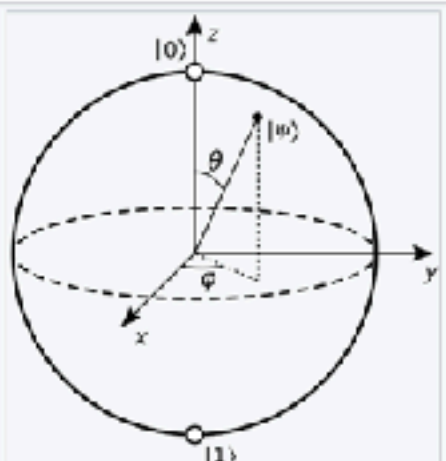
Article Talk 37 languages

From Wikipedia, the free encyclopedia

A **quantum computer** is a **computer** that exploits **quantum mechanical** phenomena. On small scales, physical matter exhibits properties of **both particles and waves**, and quantum computing takes advantage of this behavior using specialized hardware. **Classical physics** cannot explain the operation of these quantum devices, and a scalable quantum computer could perform some calculations **exponentially** faster<sup>[a]</sup> than any modern "classical" computer. Theoretically a large-scale quantum computer could **break some widely used encryption schemes** and aid physicists in performing **physical simulations**; however, the current state of the art is largely experimental and impractical, with several obstacles to useful applications.

The basic **unit of information** in quantum computing, the **qubit** (or "quantum bit"), serves the same function as the **bit** in classical computing. However, unlike a classical bit, which can be in one of two states (a **binary**), a qubit can exist in a **superposition** of its two "basis" states, a state that is in an abstract sense "between" the two basis states. When **measuring** a qubit, the result is a **probabilistic output** of a classical bit. If a quantum computer manipulates the qubit in a particular way, **wave interference** effects can amplify the desired measurement results. The design of **quantum algorithms** involves creating procedures that allow a quantum computer to perform calculations efficiently and quickly.

Quantum computers are not yet practical for real-world applications. Physically engineering high-quality qubits has proven to be challenging. If a physical qubit is not sufficiently **isolated** from its environment, it suffers from **quantum decoherence**, introducing **noise** into calculations. National governments have invested heavily in experimental



**Bloch sphere** representation of a qubit. The state  $|\psi\rangle = \alpha|0\rangle + \beta|1\rangle$  is a point on the surface of the sphere, partway between the poles,  $|0\rangle$  and  $|1\rangle$ .



Journal of Food Engineering 51 (2002) 131–137

JOURNAL OF  
FOOD  
ENGINEERING

www.elsevier.com/locate/jfoodeng

## Study of sponge cake batter baking process. Part I: Experimental data

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### Abstract

Experimental data concerning heat and mass transfer phenomena during the baking process of a sponge cake batter are presented, namely the surface and internal temperatures profiles, the surface and mean water contents and the cake expansion curves, for different process temperatures and batter thicknesses. The product textural evolution during the process was also investigated by photography and image analysis. By means of these data, two baking periods and the corresponding main transfer mechanisms were described, namely the "heating up" period and "crust and crumb" period, delimited by the formation of a dry crust at the batter heated surface. During the heating up period, water migrated from the core to the surface by diffusion in liquid phase and heat was transferred from the surface to the core by conduction and by water vapor evaporation, diffusion and condensation. During the crust and crumb period, the main resistances for heat and mass transfer are located in the dry crust where heat was transferred by conduction and water vapor migrated by convection under a gradient of total gaseous phase pressure. © 2001 Elsevier Science Ltd.



# ChatGPT voice interaction



iOS/Android and Mac/Windows app



# Create learning objectives

*“I want to create a mobile learning module based on this content:  
<https://www.redcross.org.uk/first-aid/learn-first-aid/strains-and-sprains>”*

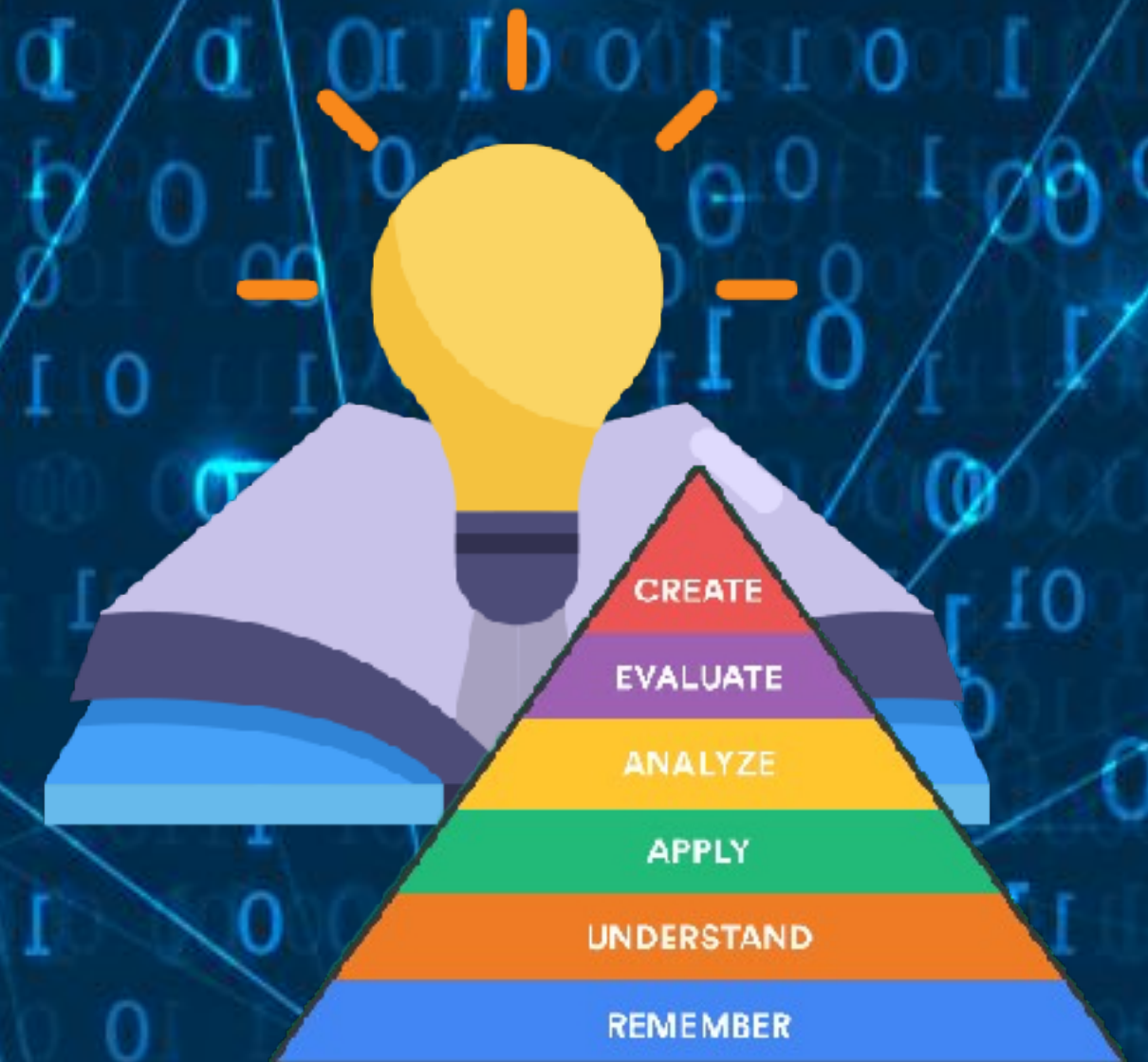
*Write 3–5 learning objectives using Bloom’s Taxonomy, including a mix of understanding, applying, and evaluating.*

*Keep the language simple and learner-focused so the objectives fit short, small-screen learning sessions”*

Context

Task

Constraints





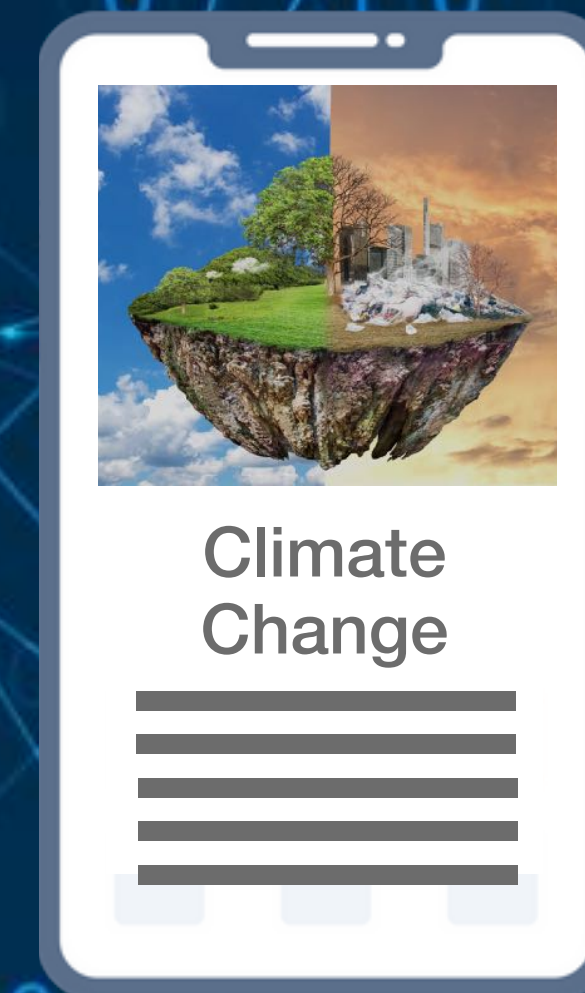
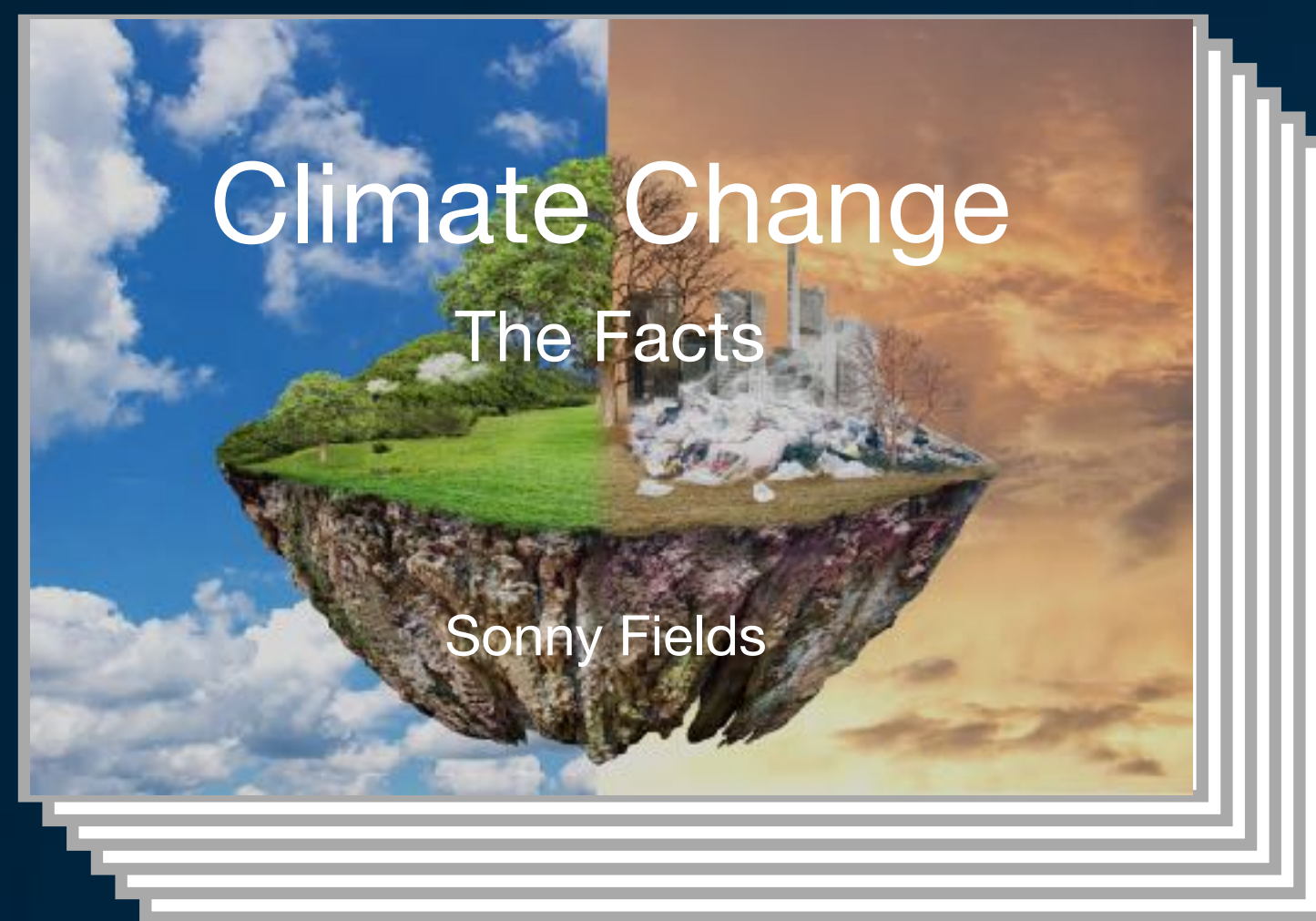
The background is a dark blue gradient with a complex network of thin, light blue lines connecting various points, resembling a digital or neural network. Scattered throughout are small, bright blue light streaks and clusters of binary digits (0s and 1s) in a lighter blue font, some of which are slightly blurred to create a sense of depth and motion.

# Transforming content for mobile



# ILT to mobile learning content

*“You are an experienced mobile learning designer. Convert this ILT slide deck to mobile learning content. Suggest placement of images and short engaging activities.”*



Keynote, Powerpoint, PDF, ...



# Existing content to mobile support

*“You’re a mobile performance support designer.*

*Turn this page into 8 concise, mobile-friendly screens (max 125 words each) that help users recognise and respond to a broken bone in real time.*

*Use clear, action-based headings, suggest supporting visuals, and finish with a brief “What to do next” summary.*

<https://www.redcross.org.uk/first-aid/learn-first-aid/broken-bone>





# Improving prompts

The background is a dark blue gradient. It features a complex network of thin, light blue lines that intersect to form various geometric shapes, primarily triangles. Scattered throughout this network are small, bright blue dots, some of which have short, horizontal light blue streaks extending from them. In the upper right quadrant, there is a faint, semi-transparent pattern of binary code (0s and 1s) in a light blue color.



# Structured prompting

**Purpose** — Why you're creating it

*"Give learners a quick understanding of the key skills."*

**Audience** — Who it's for

*"This is for busy frontline staff with no prior training."*

**Structure** — How it should be organized

*"Use 4–6 screens: intro > key concept > visual > quick check."*

**Length** — How much to include

*"Keep it under 600 words total. <125 words per screen."*

**Tone** — What it should feel like

*"Use plain, helpful language. Keep it clear and supportive."*





# Parameterized prompting

*[Module Topic] = Cybersecurity awareness for employees*

*[Module Sections] = 1. Cybersecurity intro, 2. Threats, 3. Guidelines*

*[Target Audience] = Non-technical staff*

*[Learning Format] = Interactive mobile learning module*

*[Interactive Elements] = Scenarios, quizzes, animated explainer videos*

*You are an experienced mobile learning content designer.*

*Create an engaging mobile learning module on [Module Topic] for [Target Audience] with [Module Sections]*

*Use [Interactive Elements] with [Learning Format] to enhance retention and engagement.*

*Ensure a mobile-friendly, visually appealing design that supports self-paced learning.*

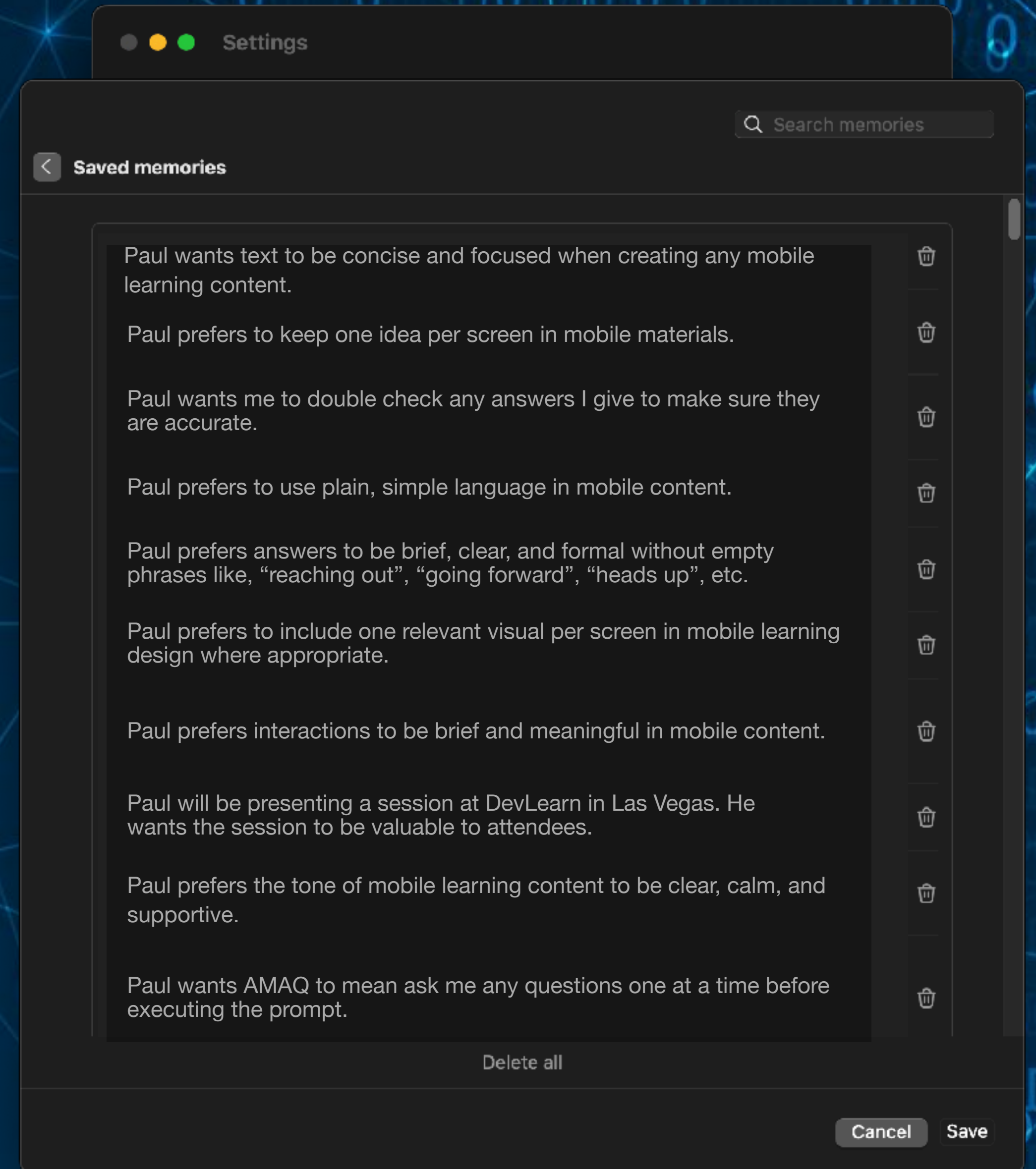




# Personalized memory

*“Remember that...”*

- All your preferences
- What your working on
- Custom commands (RIMS, AMAQ)
- Background context
- Tone
- Personality.



Settings > Personalization > Manage Memories



# Custom GPTs

The background is a dark blue gradient. It features a complex network of thin, light blue lines that intersect to form various geometric shapes, primarily triangles and polygons. Scattered throughout this network are small, bright blue dots, some of which have short, horizontal light blue streaks extending from them, resembling signal or data points. In the upper right quadrant, there is a faint, semi-transparent pattern of binary code (0s and 1s) arranged in a grid-like fashion, suggesting a digital or data-driven theme.



# Custom GPTs

Learning Objectives

Adaptive learning

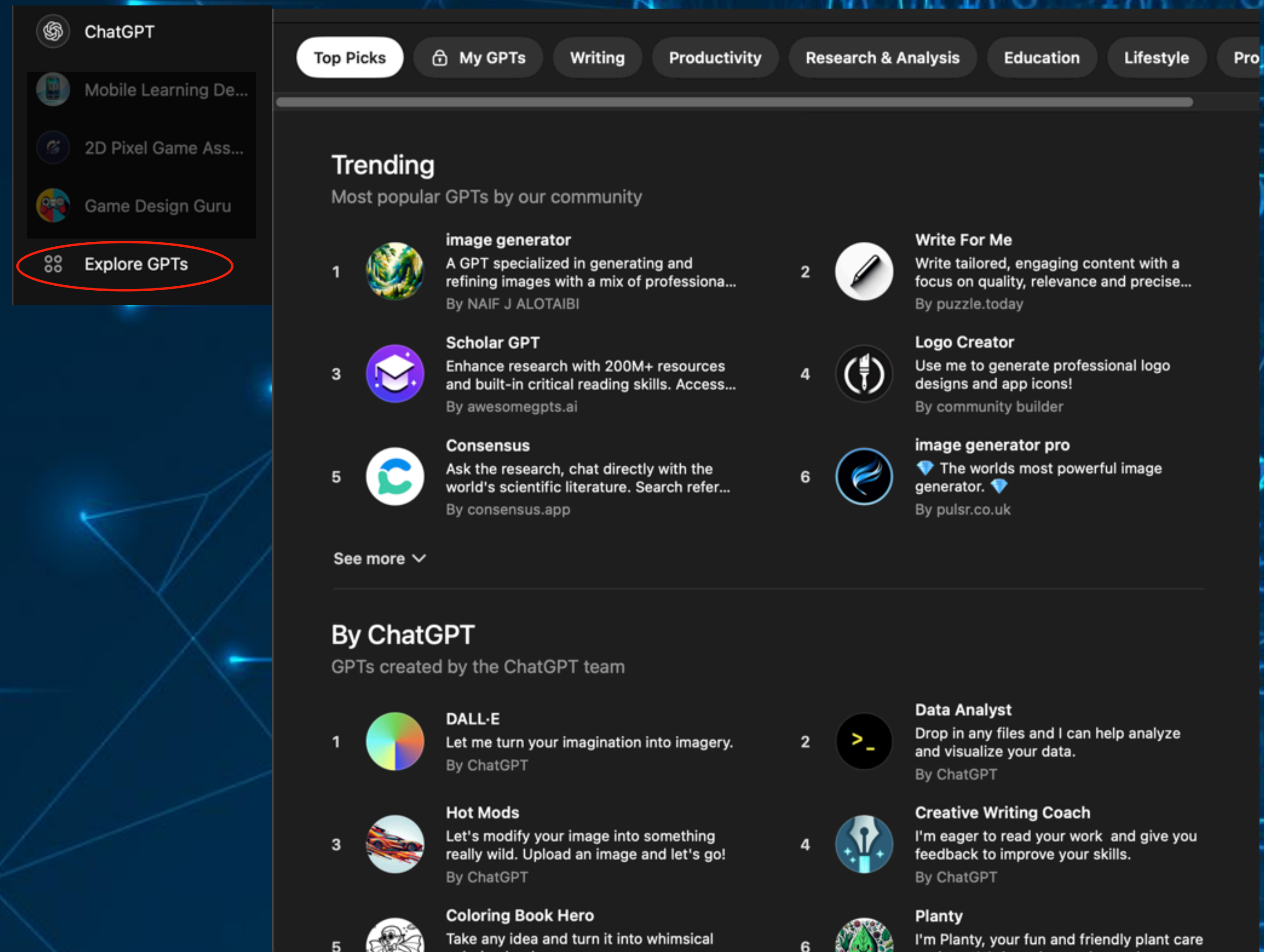
Video AI

Accessibility Checker

Mobile Learning Designer\*

Mobile Learning Builder\*

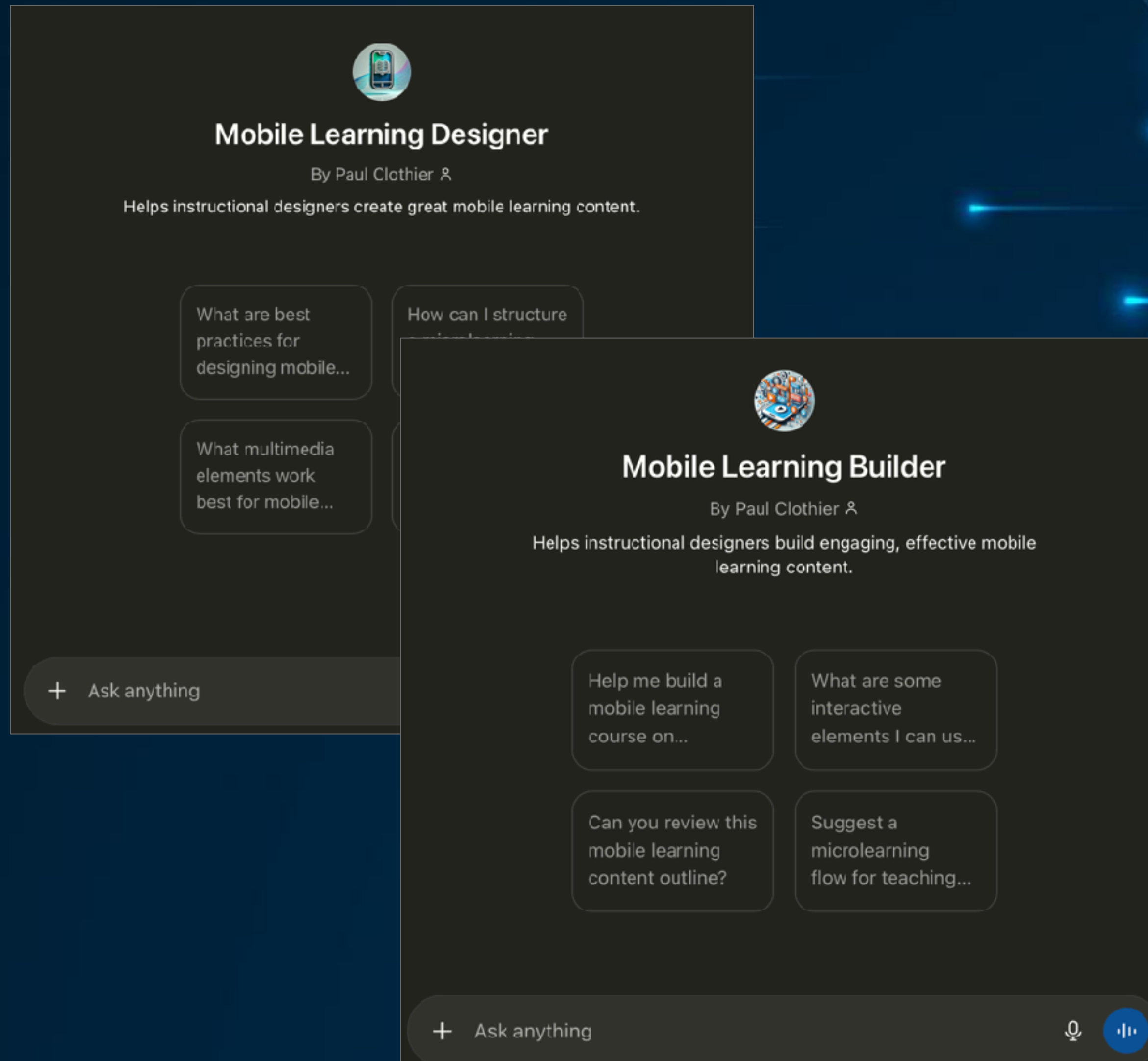
Mobile Learning Gamifier\*



Create your own GPT at <https://chatgpt.com/gpts/editor>



# Mobile Learning Designer/Builder GPT



<https://tinyurl.com/n9ef3v4x>



<https://tinyurl.com/4zynv4ju>



# Custom GPT benefits

- Saves repeating prompts
- Follows your design rules
- Maintains team consistency
- References uploaded files



Top Picks   My GPTs   Writing   Productivity   Research & Analysis   Education

### Trending

Most popular GPTs by our community

|   |                                                                                     |                                                                                                                                   |   |                                                                                     |                                                                                                                              |
|---|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1 |  | <b>image generator</b><br>A GPT specialized in generating and refining images with a mix of professional...<br>By NAIF J ALOTAIBI | 2 |  | <b>Write For Me</b><br>Write tailored, engaging content with a focus on quality, relevance and precise...<br>By puzzle.today |
| 3 |  | <b>Scholar GPT</b><br>Enhance research with 200M+ resources and built-in critical reading skills. Access...<br>By awesomegpts.ai  | 4 |  | <b>Logo Creator</b><br>Use me to generate professional logo designs and app icons!<br>By community builder                   |
| 5 |  | <b>Consensus</b><br>Ask the research, chat directly with the world's scientific literature. Search refer...<br>By consensus.app   | 6 |  | <b>image generator pro</b><br>💎 The worlds most powerful image generator. 💎<br>By pulsar.co.uk                               |

See more ▾

### By ChatGPT

GPTs created by the ChatGPT team

|   |                                                                                       |                                                                                                                    |   |                                                                                       |                                                                                                                          |
|---|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1 |  | <b>DALL-E</b><br>Let me turn your imagination into imagery.<br>By ChatGPT                                          | 2 |  | <b>Data Analyst</b><br>Drop in any files and I can help analyze and visualize your data.<br>By ChatGPT                   |
| 3 |  | <b>Hot Mods</b><br>Let's modify your image into something really wild. Upload an image and let's go!<br>By ChatGPT | 4 |  | <b>Creative Writing Coach</b><br>I'm eager to read your work and give you feedback to improve your skills.<br>By ChatGPT |
| 5 |  | <b>Coloring Book Hero</b><br>Take any idea and turn it into whimsical coloring book pages                          | 6 |  | <b>Plantly</b><br>I'm Plantly, your fun and friendly plant care                                                          |



<https://chatgpt.com/gpts/editor>

# Create a GPT

Name of GPT

Instructions (your prompt)

Knowledge (file upload)

Actions (system access)



[New GPT](#) Draft Create

Create Configure

**Name**  
Name your GPT

**Description**  
Add a short description about what this GPT does

**Instructions**  
What does this GPT do? How does it behave? What should it avoid doing?

**Conversation starters**  
✕

**Knowledge**  
If you upload files under Knowledge, conversations with your GPT may include file contents. Files can be downloaded when Code Interpreter is enabled  
Upload files

**Capabilities**  
☒ Web Search  
☒ Canvas  
☒ DALL·E Image Generation  
☐ Code Interpreter & Data Analysis ⓘ

**Actions**  
Create new action

**Preview**  
  
Ask anything  
+ ↑ ⓘ

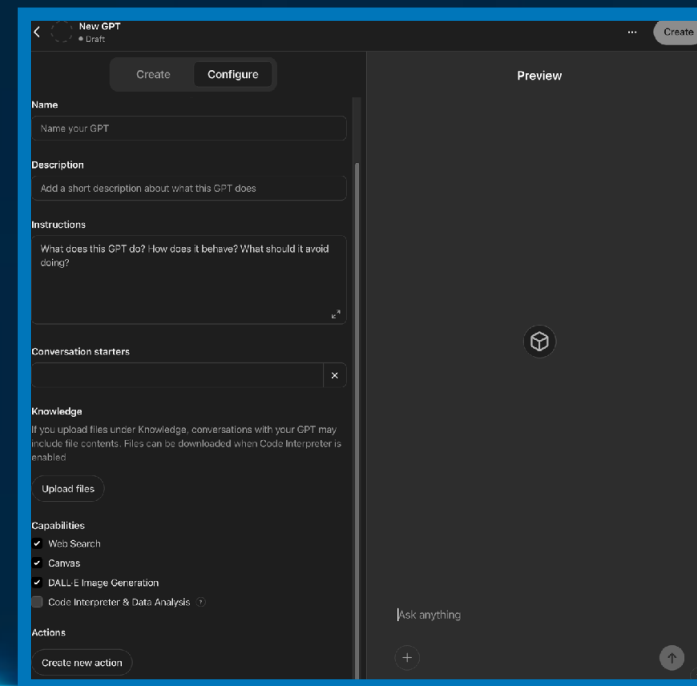


# Referencing files using GPT

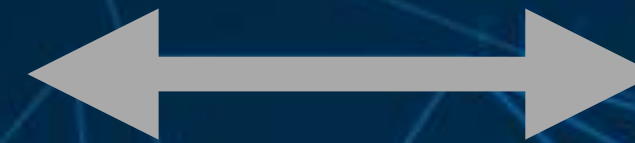
## Knowledge



Mobile learning ID



Custom GPT



Files (static)

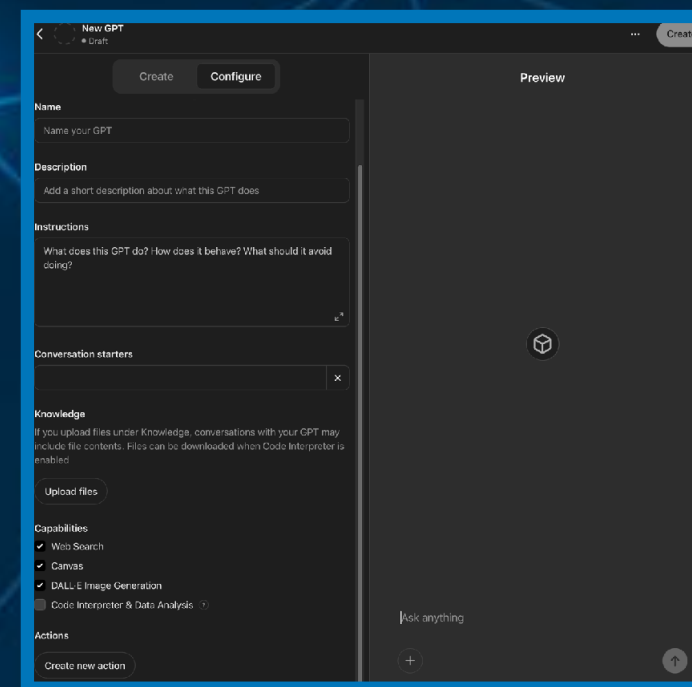
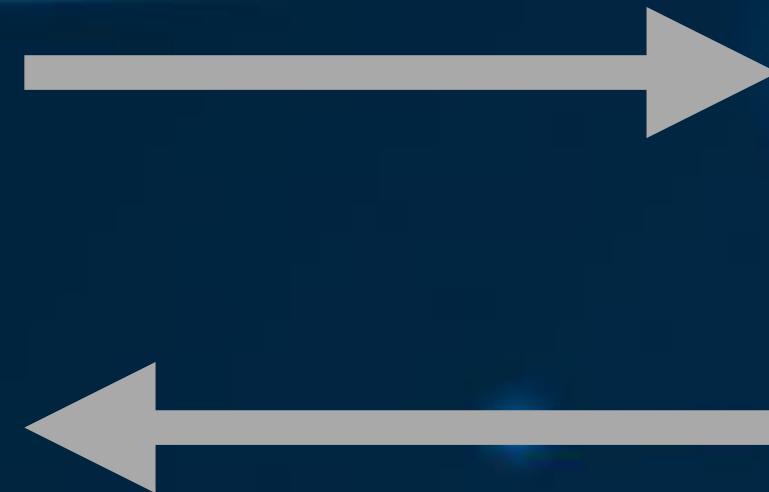
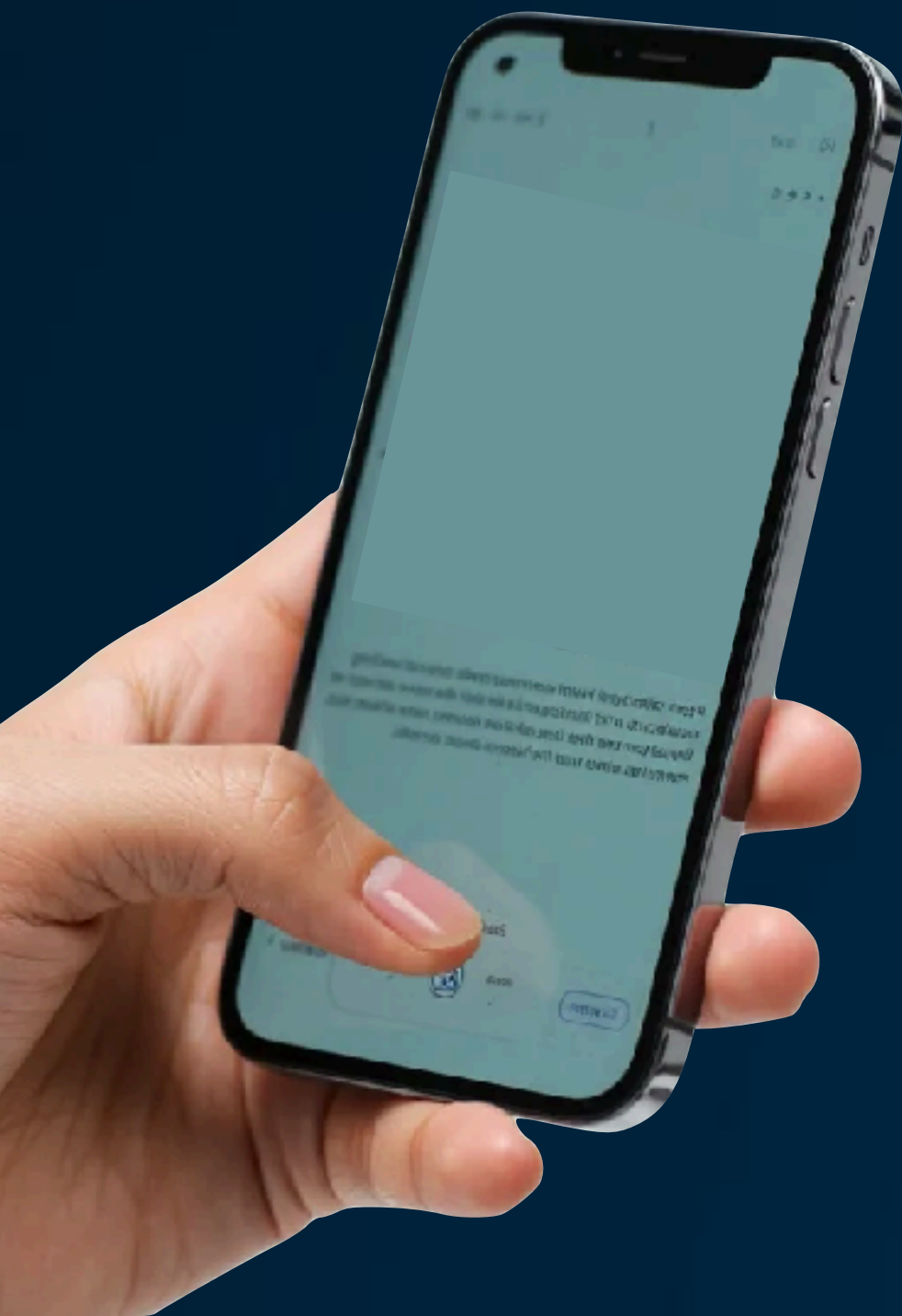
- Style guides
- Mobile templates
- Example mobile content
- Screen-design rules
- Brand voice rules
- Existing mobile learning resources



# Performance Support using GPT

## Actions/API

User requests guidance



Custom GPT



Knowledge Source  
(dynamic)



# Designing engaging content

The background is a dark blue gradient. It features a complex network of thin, light blue lines that intersect at various points, creating a web-like structure. Scattered throughout this network are small, bright blue dots and short horizontal lines, some of which appear to be glowing or emitting light. In the upper right quadrant, there are faint, semi-transparent strings of binary code (0s and 1s) in a light blue color, giving the impression of digital data or code floating in the space.



# Quiz creation

*Create mobile-optimized questions for this topic:*  
*<upload/link to content>.*

*[Type of questions] = multi choice, open-ended, & scenario*

*[Difficulty level] = beginner*

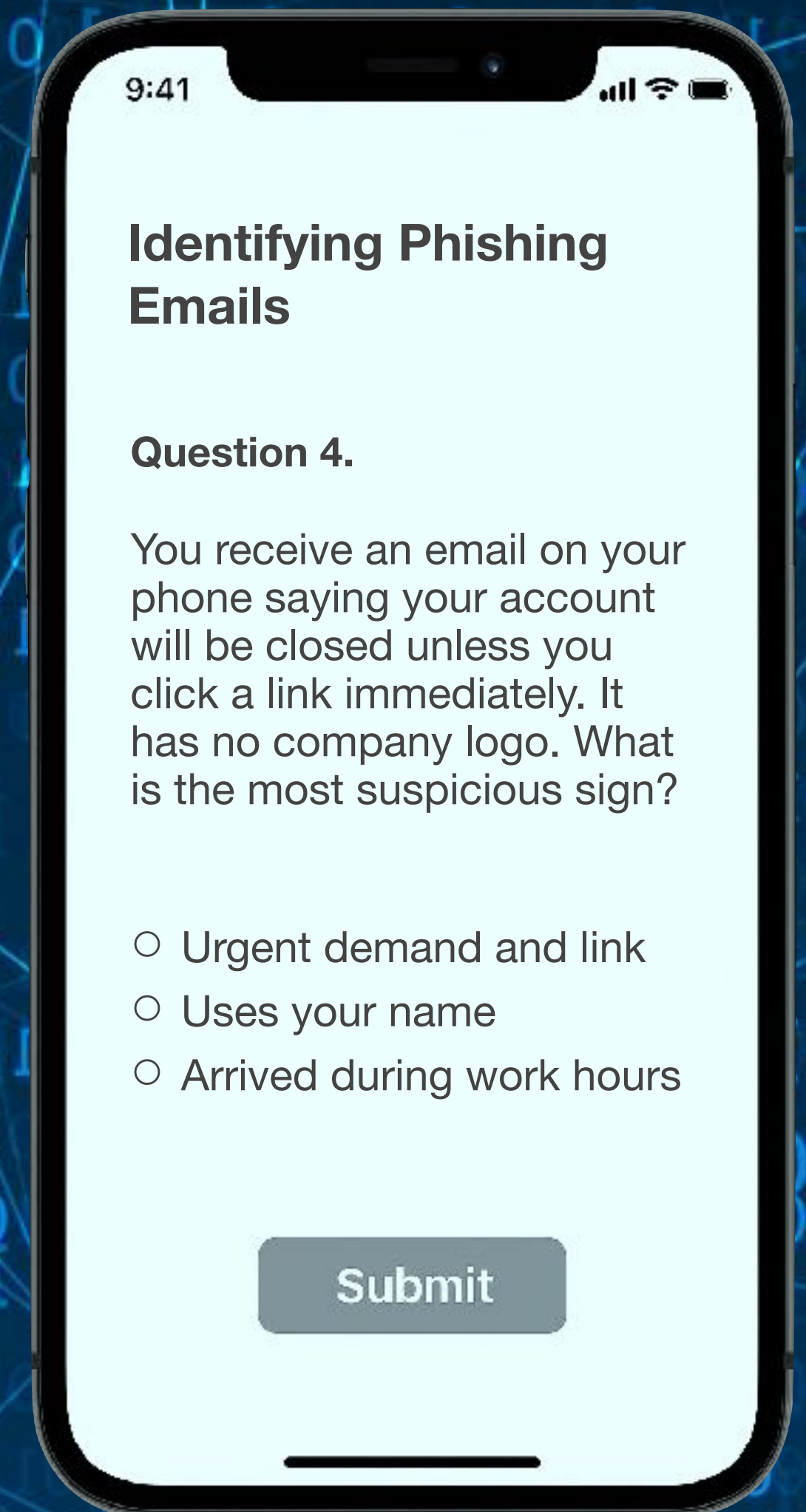
*[Number of questions] = 6*

*[Number of m/c answer options] = 3*

*[Tone] = clear and concise*

*[Question length] = max 40 words*

*Show me how question 4 would appear on a smartphone screen*





# Scenario questions

## Making decisions

*“Based on this web page content, create a scenario question for mobile learning content that asks the learner to make decisions. Suggest relevant graphics.”*

*<https://www.redcross.org.uk/first-aid/learn-first-aid/broken-bone>*



### Scenario: Helping a Friend with a Suspected Broken Arm

 You're at a park when your friend falls off a bicycle and lands hard on their arm. They are in visible pain and struggling to move it. The arm looks swollen, and they say it hurts too much to straighten.

 What should you do first?

#### Options (Tap to Choose):

- A) Tell them to move their arm to see if it still works.  (Incorrect – Moving could worsen the injury.)
- B) Support their arm in a comfortable position and call for help.  (Correct – Immobilization and medical help are key.)
- C) Apply pressure directly to the injured area.  (Incorrect – Pressure may cause more harm.)
- D) Give them water and a painkiller.  (Incorrect – Avoid food or drink in case surgery is needed.)

#### Suggested Graphics:

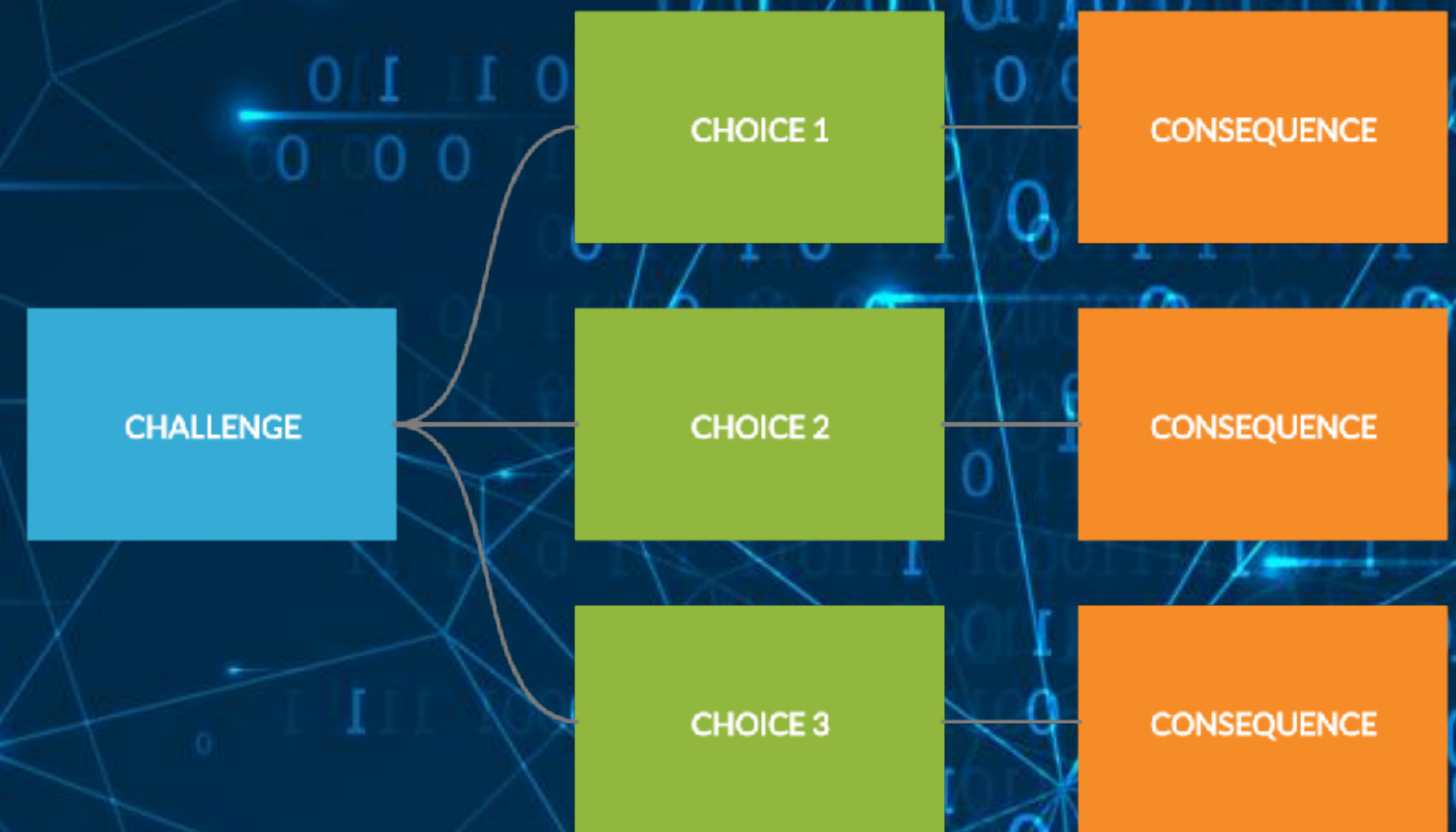
1. **Before selection:** Image of a person holding their injured arm in pain.
2. **After selection:**
  - *Correct choice:* Animation of someone supporting the arm with clothing while calling for help.
  - *Incorrect choice:* Gentle feedback message with a



# Branching scenarios

*“Create an interactive case study where a salesperson must navigate <specify> a customer concern in a store. Provide 2 levels of decision points.*

*The content will be delivered as interactive mobile learning content.”*





# Generating code

*[Language] = HTML*

*Create [Language] code to implement this branching scenario. It should be suitable for a small smartphone screen.*

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Customer Concern Scenario</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      text-align: center;
      background: linear-gradient(to right, #2C5364, #203A43, #0F2027);
      color: white;
      margin: 0;
      padding: 20px;
    }
    #scenario-container {
      max-width: 600px;
      margin: auto;
      background: rgba(255, 255, 255, 0.1);
      padding: 20px;
      border-radius: 10px;
      box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.3);
    }
    .btn {
      display: block;
      width: 90%;
      margin: 10px auto;
      padding: 10px;
      border: none;
      border-radius: 5px;
      font-size: 16px;
      cursor: pointer;
      transition: 0.3s;
    }
    .btn:hover {
      opacity: 0.8;
    }
    .btn-option1 { background: #00ADB5; color: white; }
    .btn-option2 { background: #F08A5D; color: white; }
    .btn-option3 { background: #B83B5E; color: white; }
    .btn-restart { background: #6A0DAD; color: white; }
    .hidden { display: none; }
  </style>
</head>
<body>

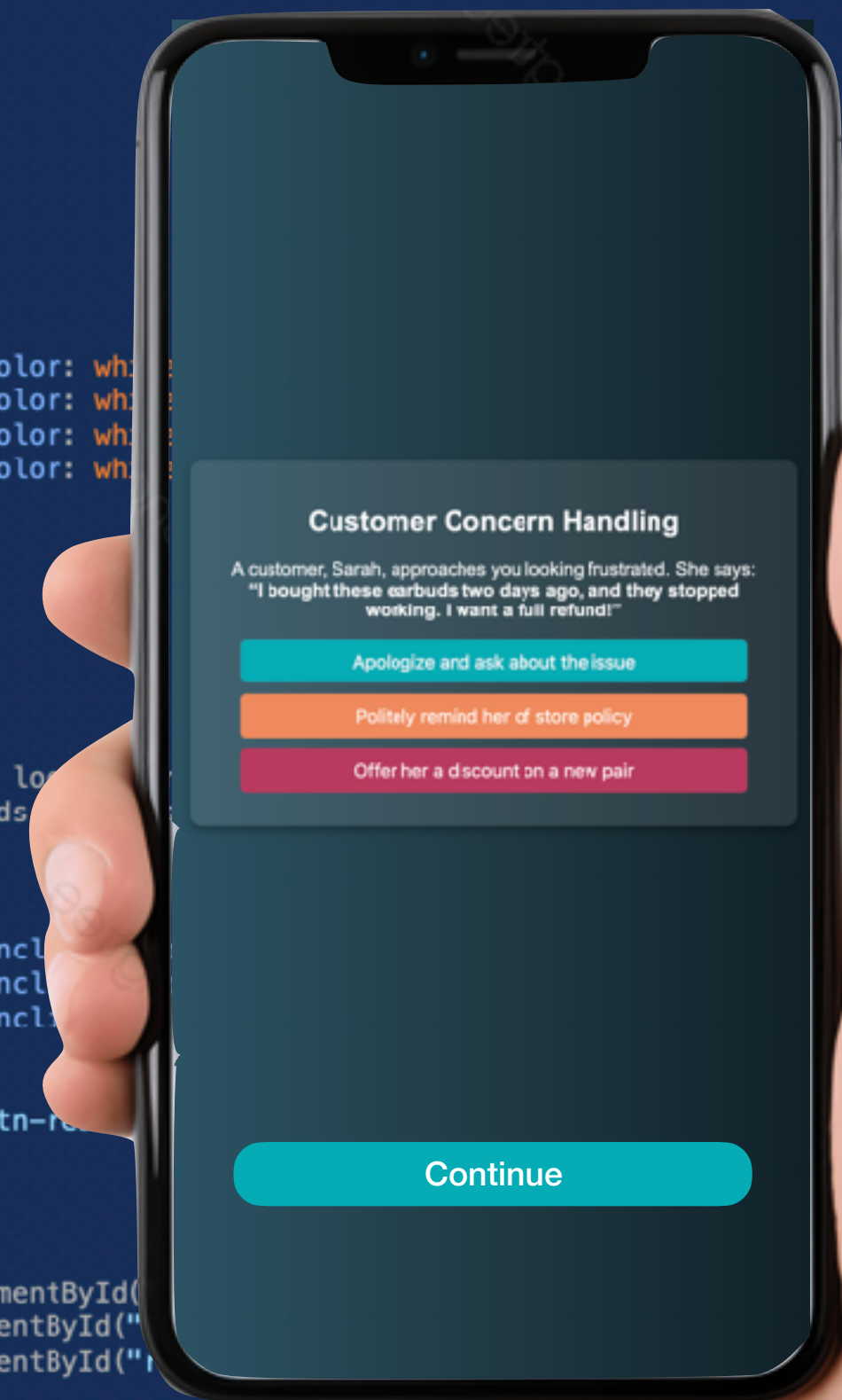
  <div id="scenario-container">
    <h2>Customer Concern Handling</h2>
    <p id="scenario-text">
      A customer, Sarah, approaches you looking frustrated. She says:
      <br><strong>"I bought these earbuds two days ago, and they stopped
      working. I want a full refund!"</strong>
    </p>

    <div id="options">
      <button class="btn btn-option1" onclick="chooseOption(1)">Apologize and ask about the issue
      <button class="btn btn-option2" onclick="chooseOption(2)">Politely remind her of store policy
      <button class="btn btn-option3" onclick="chooseOption(3)">Offer her a discount on a new pair
    </div>

    <button id="restart-btn" class="btn btn-restart">Restart Scenario
  </div>

  <script>
    function chooseOption(option) {
      let textElement = document.getElementById("scenario-text");
      let optionsDiv = document.getElementById("options");
      let restartBtn = document.getElementById("restart-btn");

      if (option === 1) {
        textElement.innerHTML = "Sarah explains that the earbuds won't charge. She is very frustrated."
        optionsDiv.innerHTML = `
          <button class="btn btn-option1" onclick="chooseOutcome(1)">Troubleshoot
          <button class="btn btn-option2" onclick="chooseOutcome(2)">Offer an exchange
          <button class="btn btn-option3" onclick="chooseOutcome(3)">Offer store credit
        `;
      }
    }
  </script>
</body>
</html>
```





# Personalize content for different roles

## Adaptive content

*“Create mobile learning content for a high-level introduction to generative AI. I need 6 screens of no more than 125 words.*

*Create 3 sets of content:  
one for C-level execs,  
one for software developers, and  
one for general staff.”*





# Dry content to an engaging story

*“Transform this research paper into an engaging, narrative-driven story for mobile delivery that conveys the key points in a fun and memorable way.*

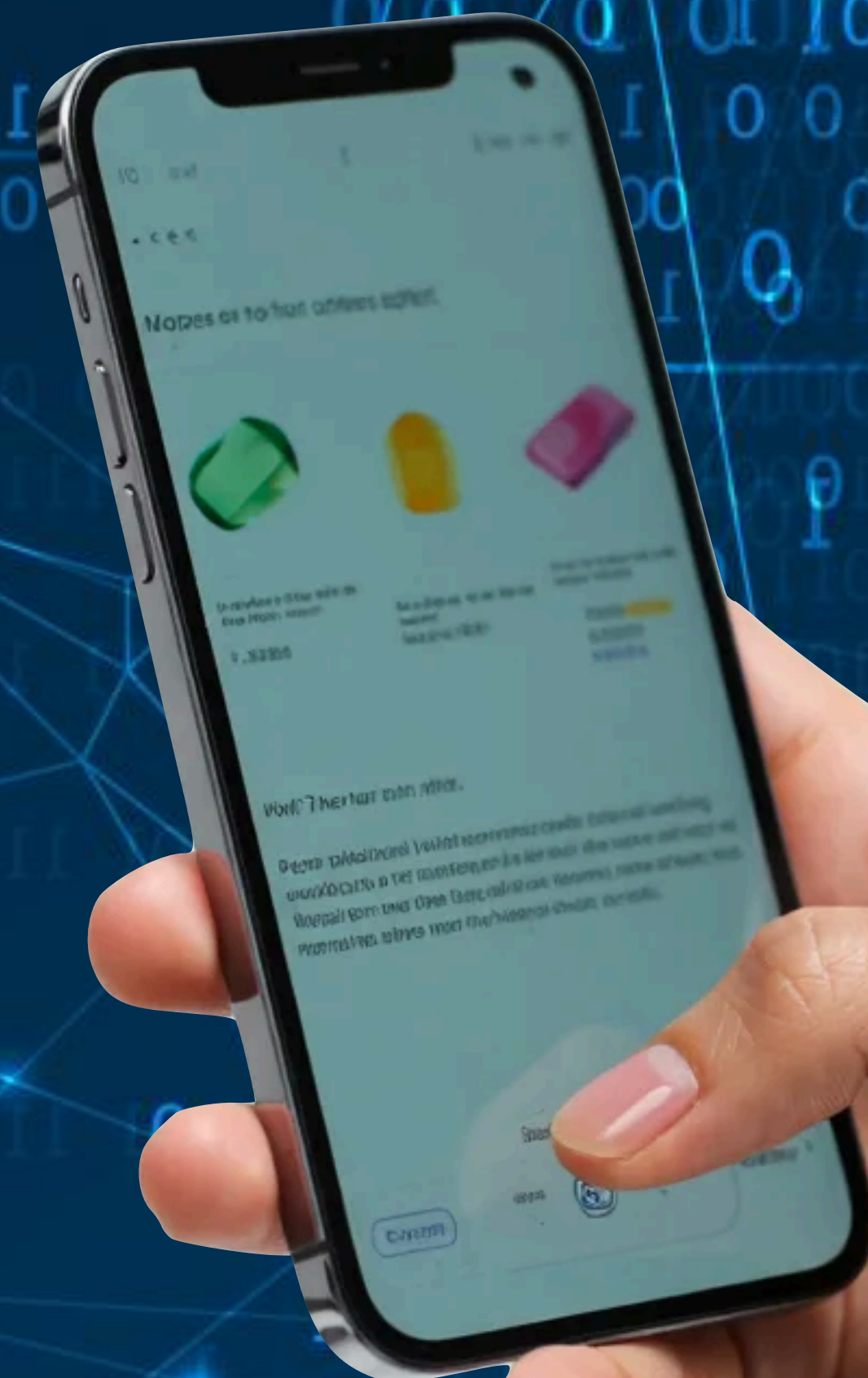
*Use relatable characters, real-world scenarios, and a conversational tone. Ensure the story flows naturally. Ask review questions along the way.”*





# Gamification

- Identify opportunities
- Create micro-challenges
- Create leaderboards, badges, point systems
- Suggest gamified assessments.





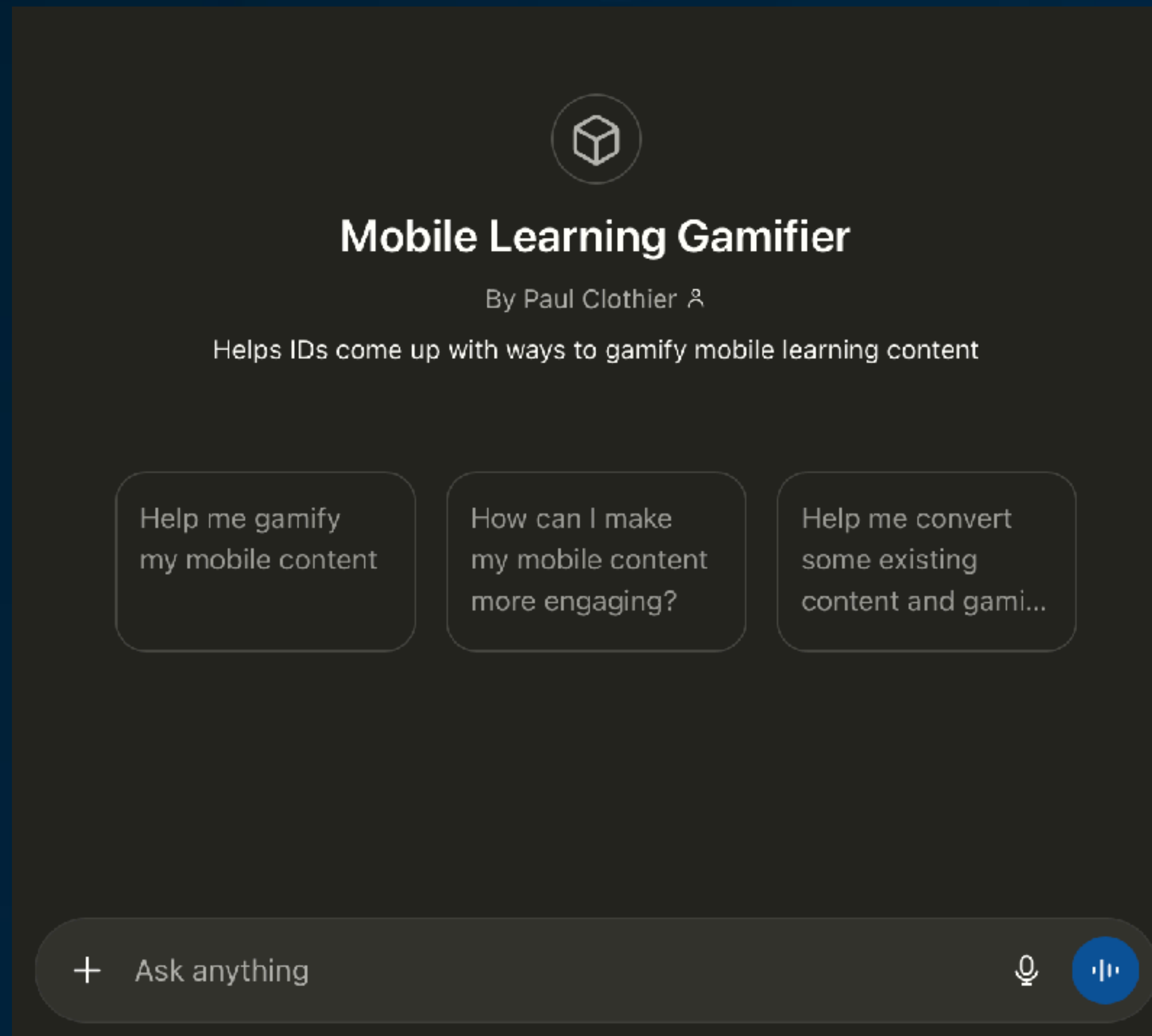
# Gamified experience

*“How can I add simple, engaging gamification elements to these learning resources <link to modules> so that the experience feels more interactive, motivating, and enjoyable?”*





# Mobile Learning Gamifier GPT



<https://tinyurl.com/yssdnr9v>

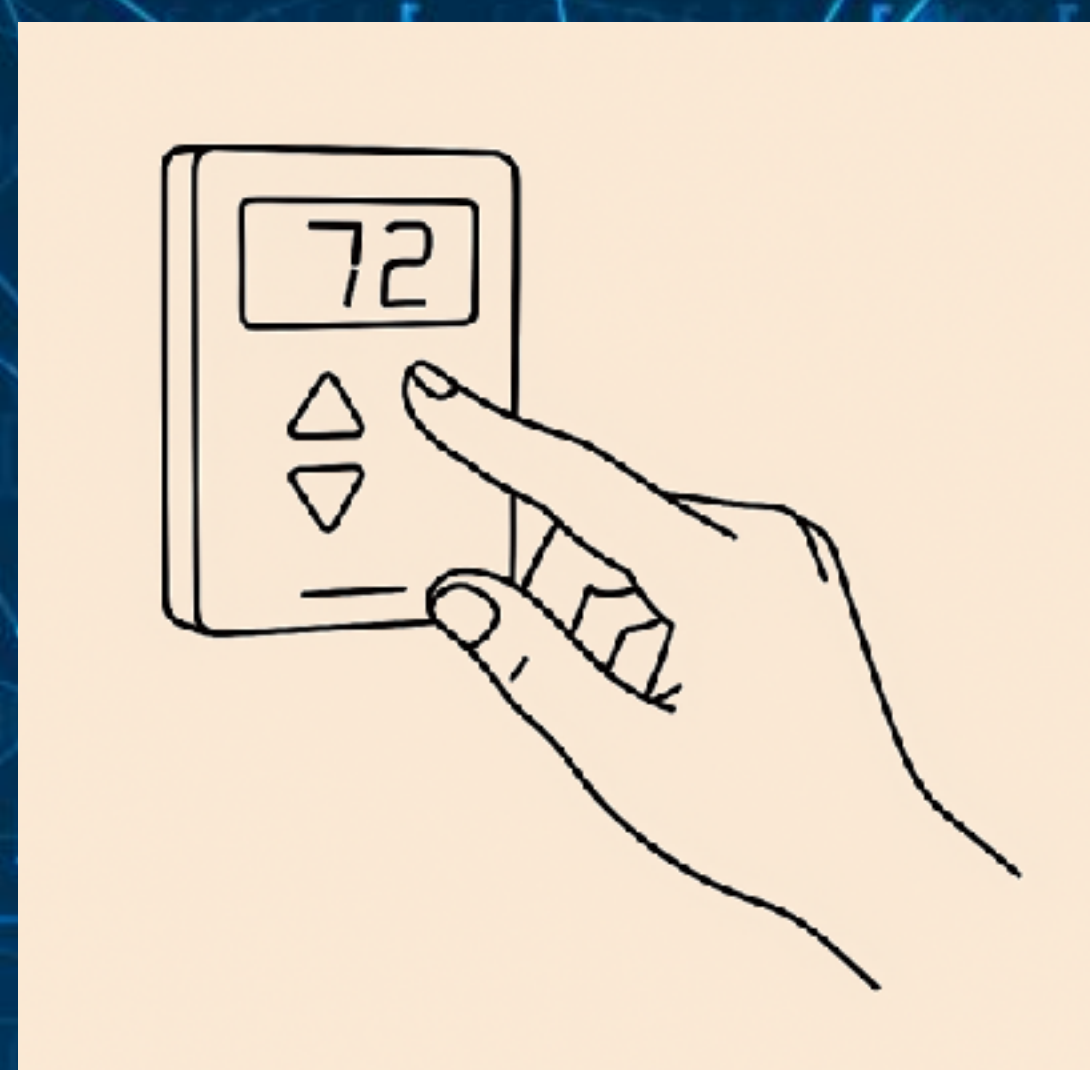


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# Images



# Image types





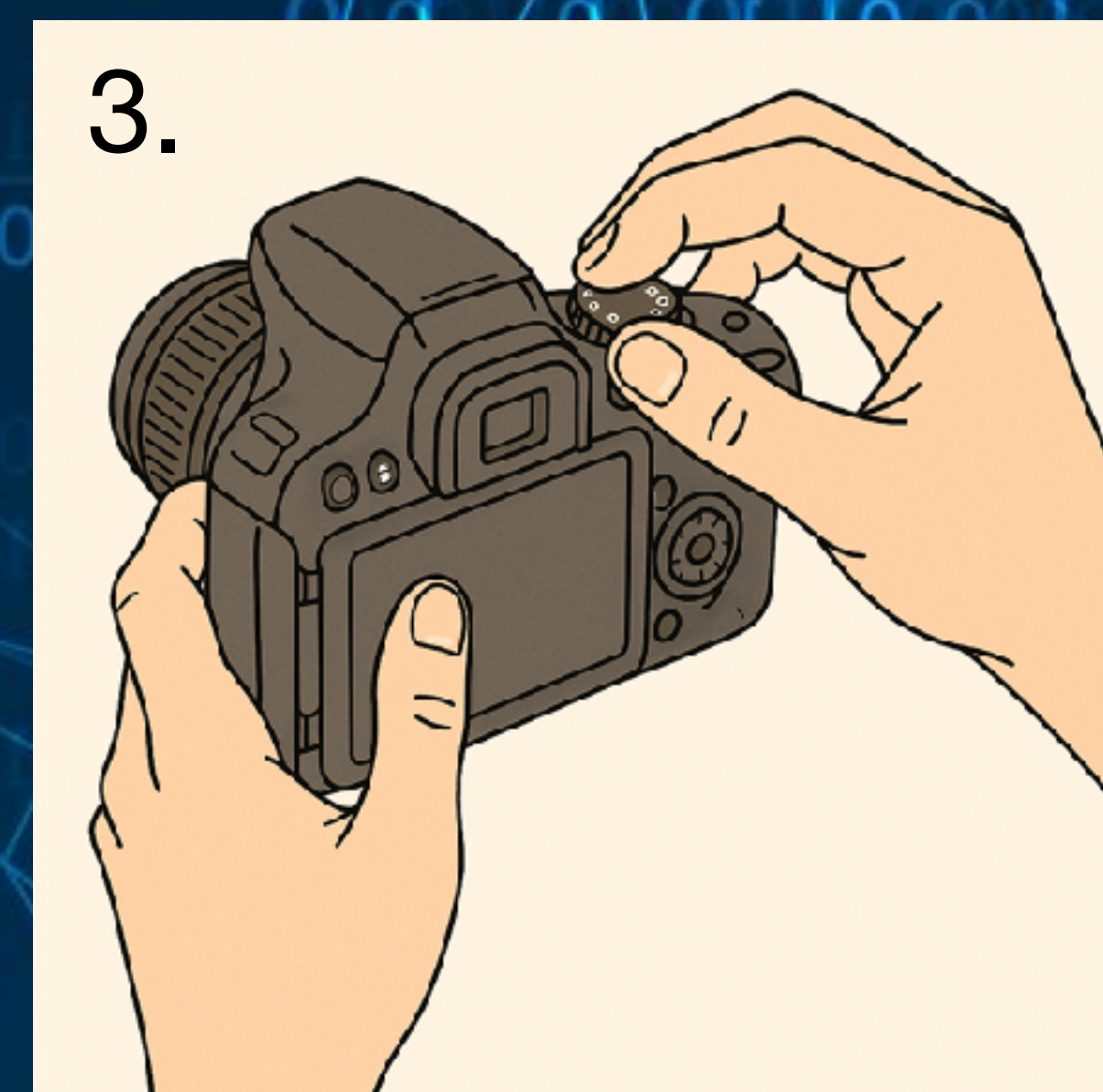
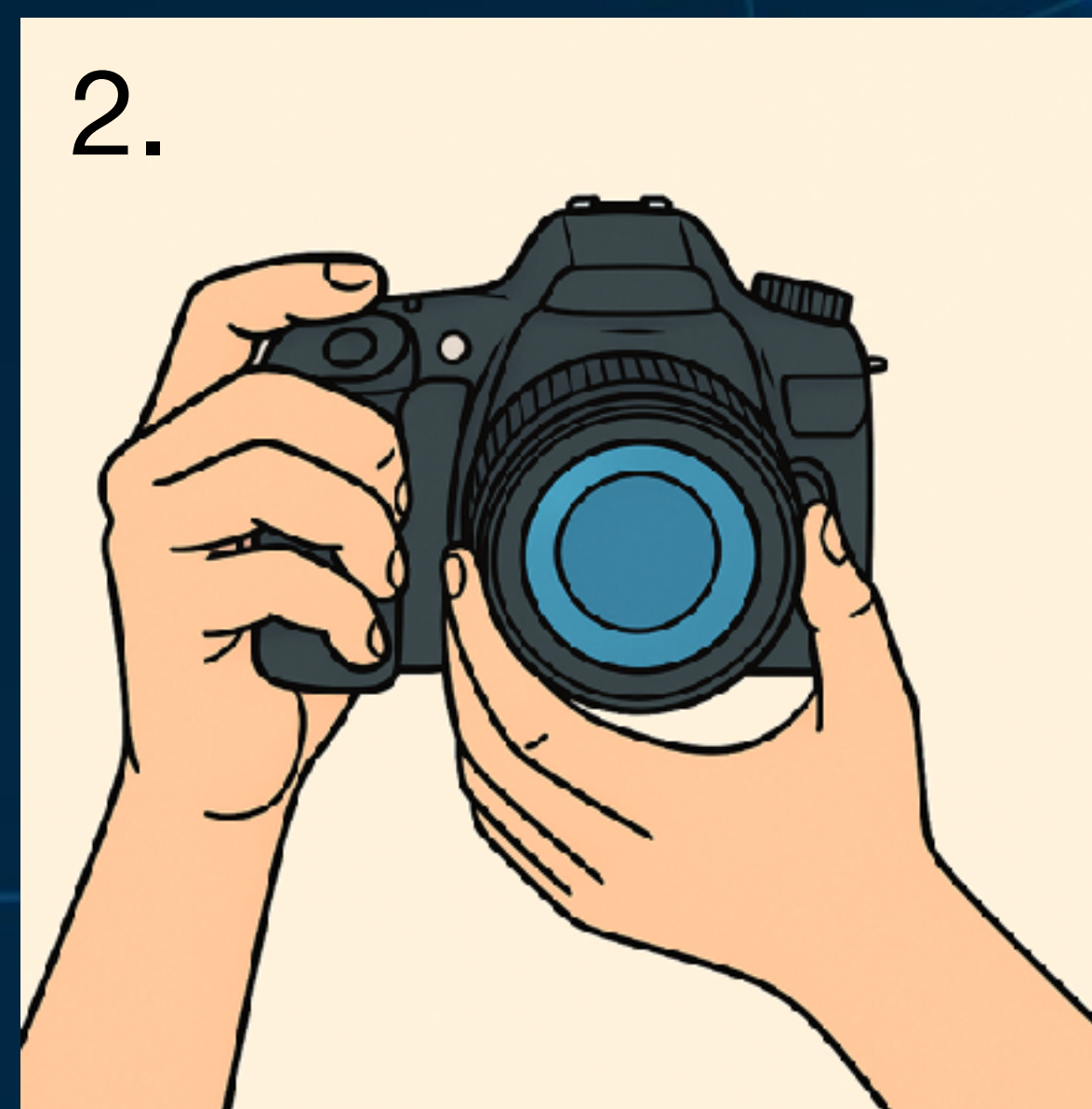
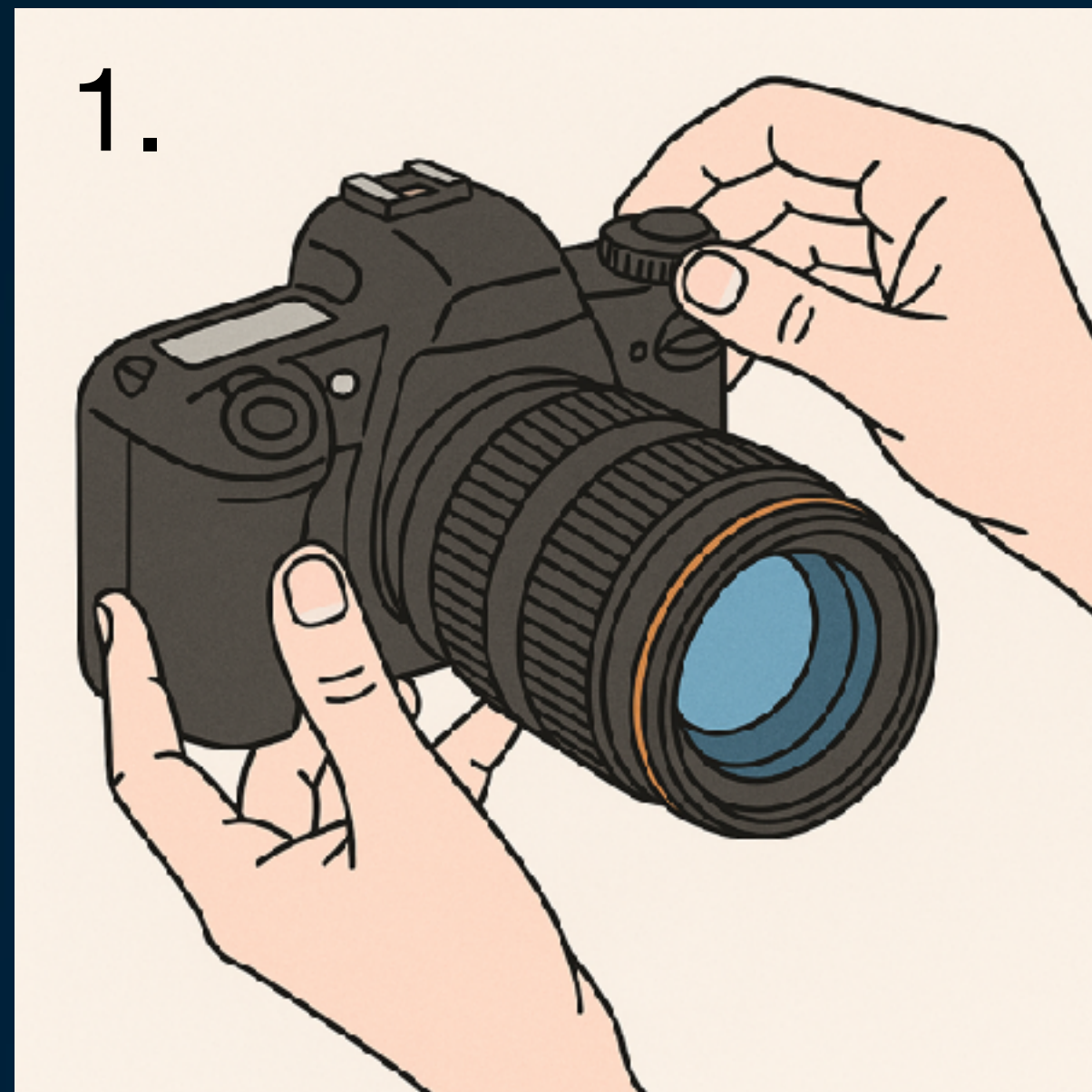
# Illustrations for mobile

*Create a simple 1:1 image of a person giving first aid to a person who may have broken her leg. <specify type/style>.*





# Series





# Watch for generation errors





# Help with image ideas

*“Which image would you recommend to illustrate that an office worker has had his laptop hacked? Give me 5 ideas.”*

- An office worker looking at their laptop with a concerned expression while a warning or alert appears on the screen.
- A close-up of a laptop keyboard with a red “Security Breach” or broken padlock icon on the display.
- A split-screen showing the worker on one side and a shadowy figure accessing the same data on the other.
- A laptop with a “Confidential” sticky note, while a red alert icon flashes on the screen.
- A visual showing data flowing out of a laptop screen, with the worker noticing in the background.





# Image refinement





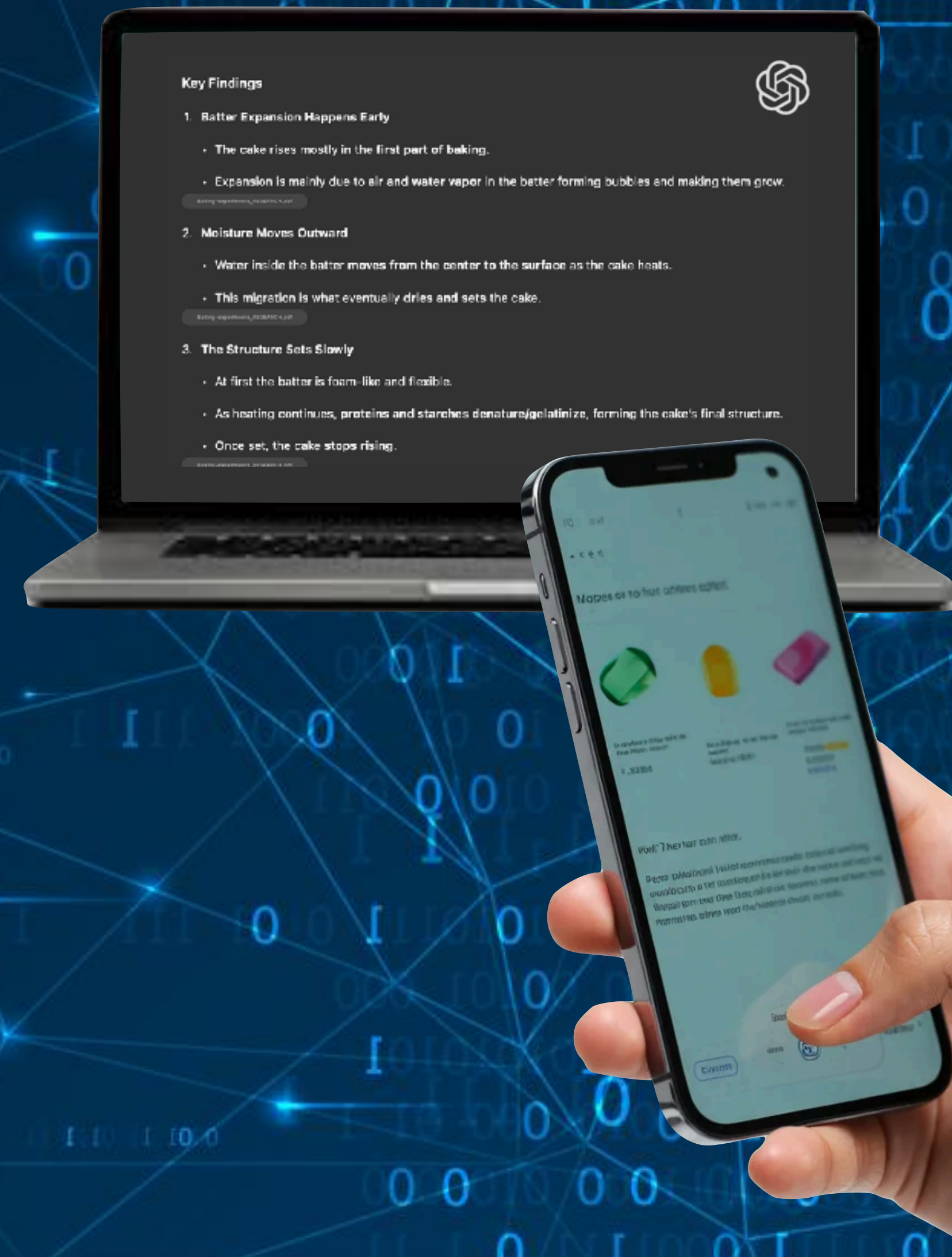
# Converting photos to illustrations





# Recommendations

- Use it as an assistant
- Learn prompt techniques
- Explore custom GPTs
- Generate engagement ideas
- Experiment with images.





# Thank you!

Please fill out the session  
evaluation in the app

[paul@paulclothier.com](mailto:paul@paulclothier.com)



Download session  
materials