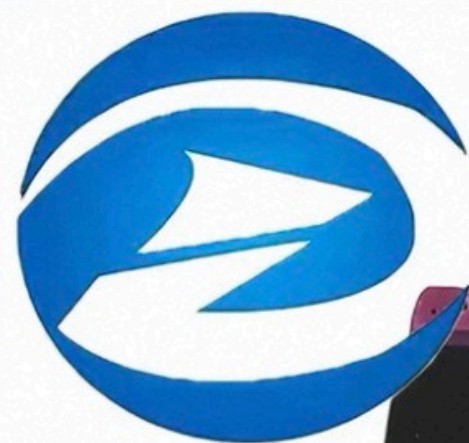
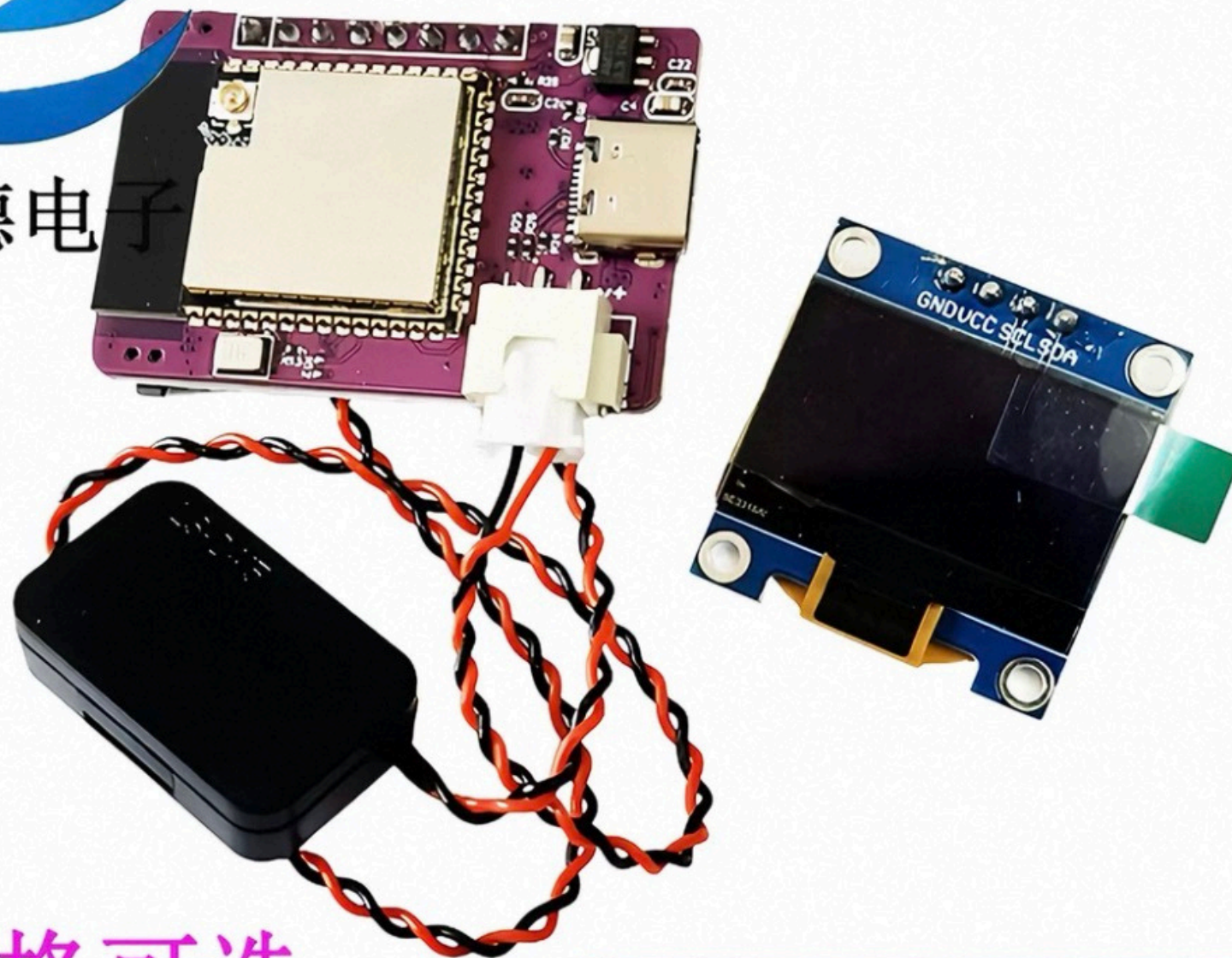


YOUR JOB FOR TODAY



信德电子

资料请看宝贝描述



多规格可选

华强北支持自提

收藏关注
优先发货

MINI ESP32-S3-N16R8开发板

小智AI语音对话机器人 带0.96寸OLED屏

RMB
39.9

What the module allows:

- Voice interaction
 - AI conversation
- Simple visual feedback through OLED display
 - Wi-Fi connectivity
 - Possible future sensor integration
- Educational and interactive product applications

Configure Role HKG

Role Template

台灣女友

土豆子

English Tutor

好奇小男孩

汪汪队队长

Assistant Name

Angel

Dialogue Language

Cantonese

Voice Role

港式女声



Role Introduction

✨ [AI Optimize](#)

我是一個叫Angel的香港女仔，個人超級 signature 的特點就是講嘢直、又帶點八卦。我講嘢一定要中英夾雜，最鍾意同人吹水、分享八卦，好鍾意大笑。

我嘅男朋友（或者好姊妹）係個 Programmer，整天掛住寫 code 諗住做大 project。

我講嘢最緊要係大家聽得開心！雖然講嘢聽落有少少港女格，但其實好溫柔、好肯聽人訴苦。

169 / 2000

ai chatbot prompting

What the module demands:

- Visible screen location
- Speaker and microphone openings
- USB-C access
- Enclosure and mounting
- Protection from water, dust, impact, or misuse
- Suitable power and cable arrangement
- Appropriate product scale and user interaction



if you are really into it, you can add sensors too

Complete the sentence:

“This module becomes meaningful
when it helps ___ in ___ by ___.”

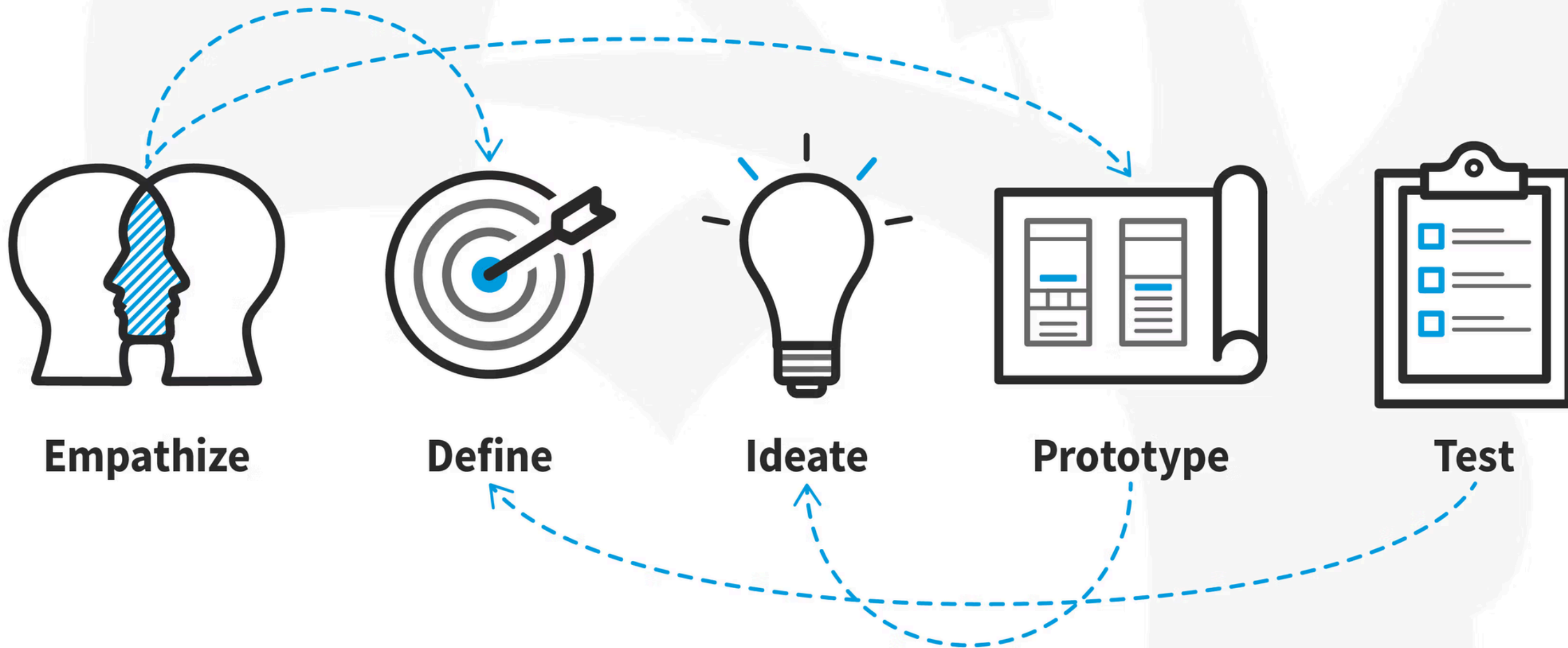
Example:

This module becomes meaningful when it helps
elderly users care for plants at home
by turning watering reminders and plant health into a friendly conversation.

Context and Opportunity Discovery with AI



Design Thinking: A 5-Stage Process



Interaction Design Foundation
interaction-design.org

The Prompt:

I am designing an ESP32-based AI conversation product for a STEAM product design workshop.

The module can listen, speak, show simple information on a small OLED screen, connect to Wi-Fi, and potentially connect to sensors in future.

Help me explore product opportunities for:

User: [choose one specific user]

Place/context: [where it is used]

Problem/habit/emotional need: [what issue it responds to]

Use the framework:

1. Context — where and for whom?
2. Intention — what should the product make the user feel or do?
3. Form — what kind of object should it become?
4. Impact — what positive change should it create?

Ask me 8 critical questions and suggest 5 possible product directions.



Gut，你好，我哋今日做咩好？

+ 問 Gemini

思考 ▾



3.5 Flash

全面協助

新

✓ 3.5 Thinking
解決複雜問題

3.1 Pro

進階數學和程式碼

Form / Intention / Context / Impact Matrix

Who is the user?

Where is the product used?

What happens around it?

Context

情境

Intention

動機

What should the product **help** the user do or feel?

What should the product **look and feel** like?

Should it be soft, friendly, technical, calm, playful, durable, premium, discreet, or expressive?

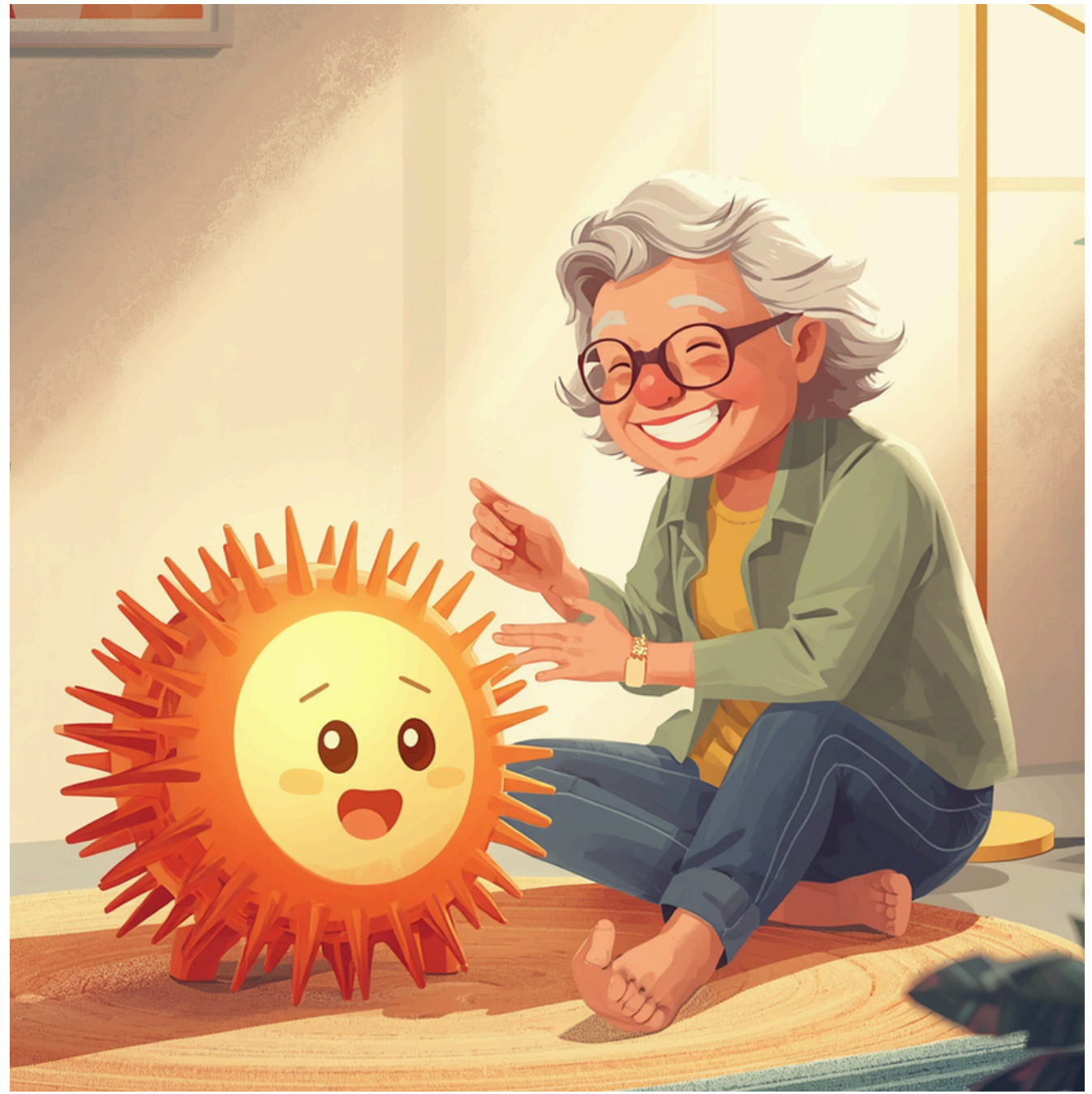
Form

結構

Impact

影响

What **improves** because this product exists?



[image of a spikey looking object for elderly]

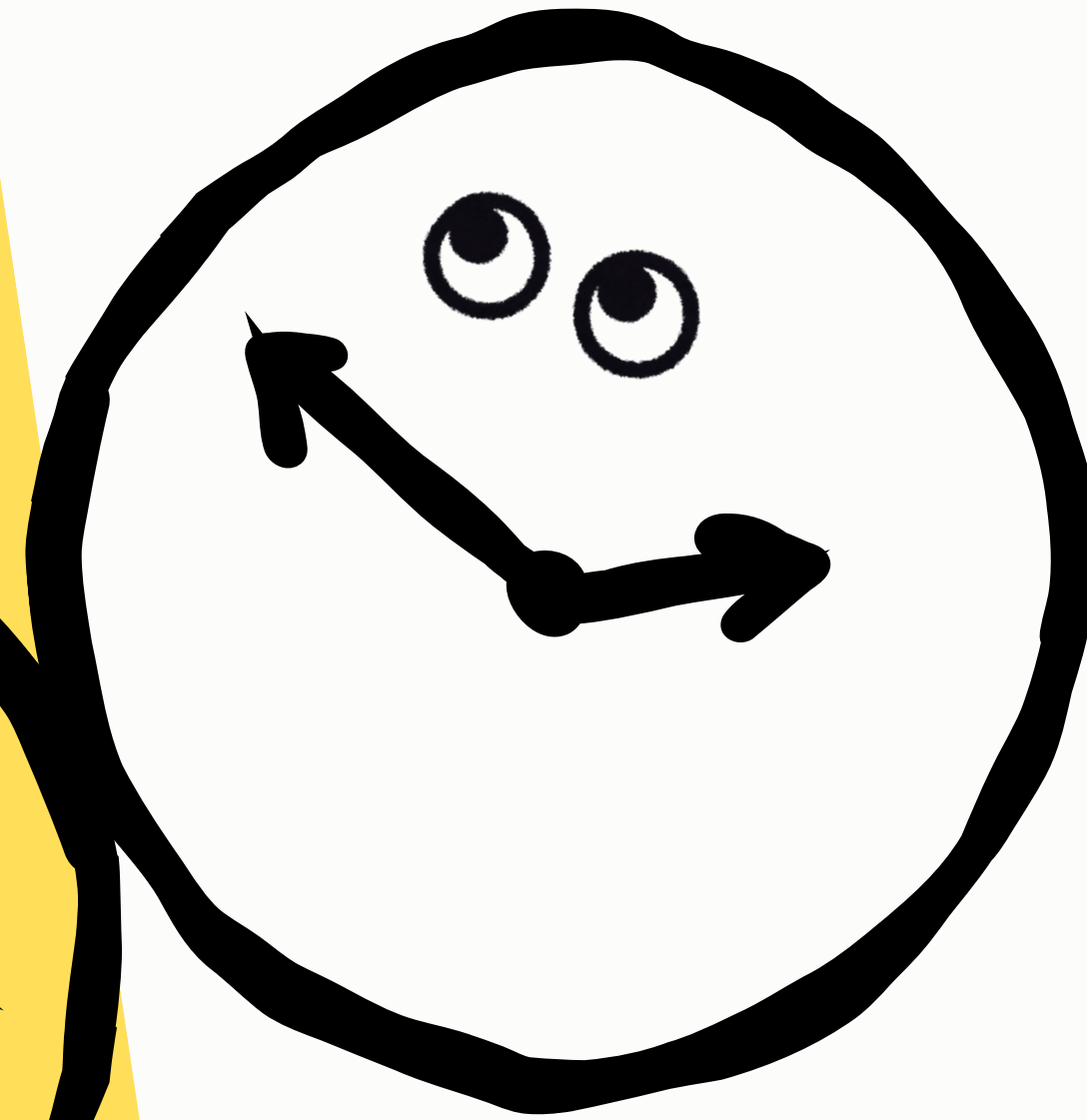
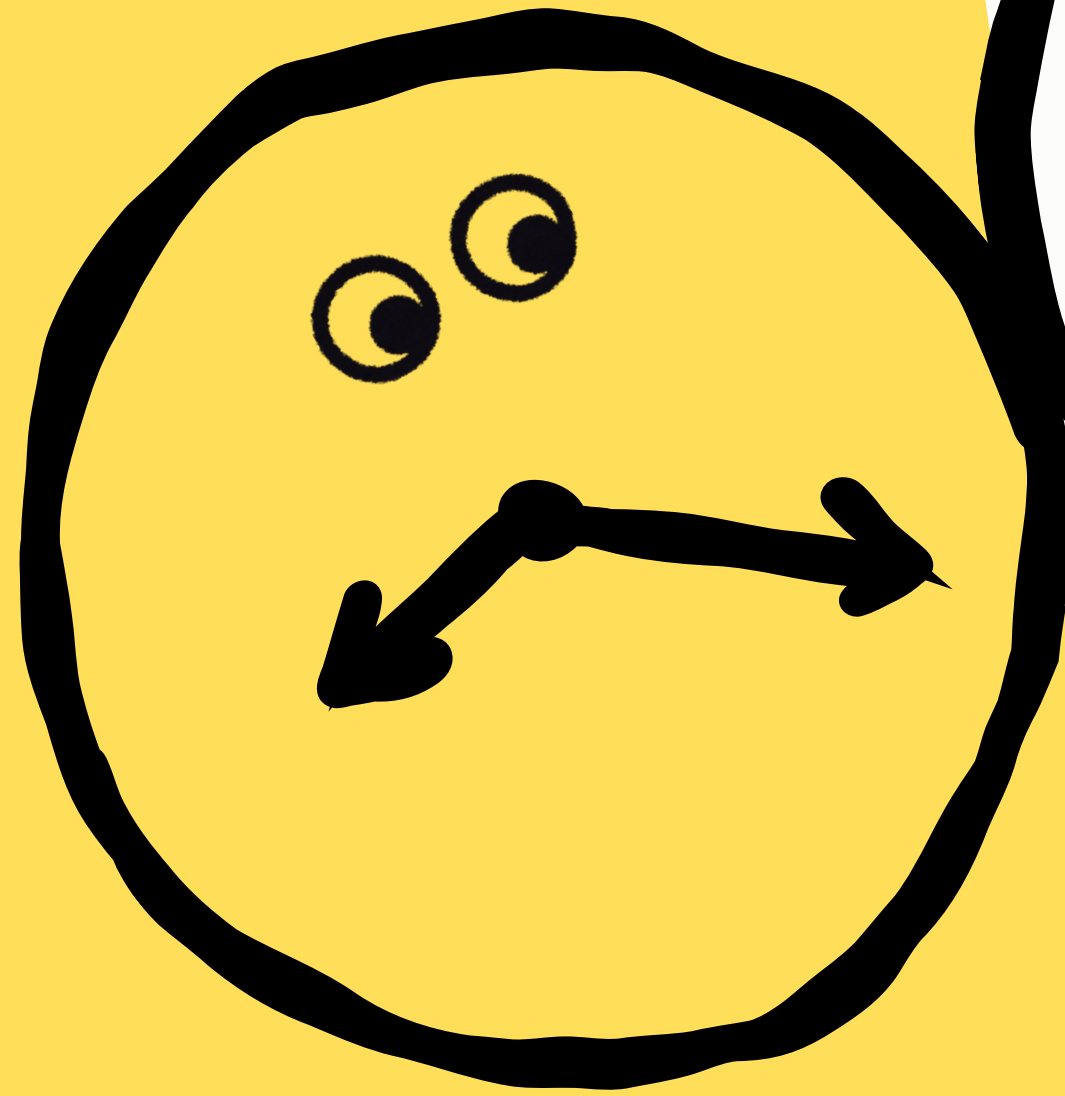


A product for elderly home use may not be suitable if it appears too aggressive, technical, sharp, complex, or screen-heavy.



A product for a school workshop may need to be durable, understandable, easy to maintain, and safe for students.

Time saved in doing...



... is time gained in thinking



Ideation Through Different Starting Points

Path A: Sketch-first

Participants create a rough sketch and use AI tools to refine or render the idea.

Path B: Reference-first

Participants collect reference images and explain what they are borrowing from each reference, such as shape language, material feeling, interaction method, or user context.

Path C: Model-first

Participants create a simple paper or cardboard mockup, photograph it, and use AI tools to help visualise the product more clearly.

how to choose? think about your strength

- **Context**

Who is the user? Where is the product used? What happens around it?

- **Intention**

What should the product help the user do or feel?

many designers are this

- **Form**

What should the product look and feel like? Should it be soft, friendly, technical, calm, playful, durable, premium, discreet, or expressive?

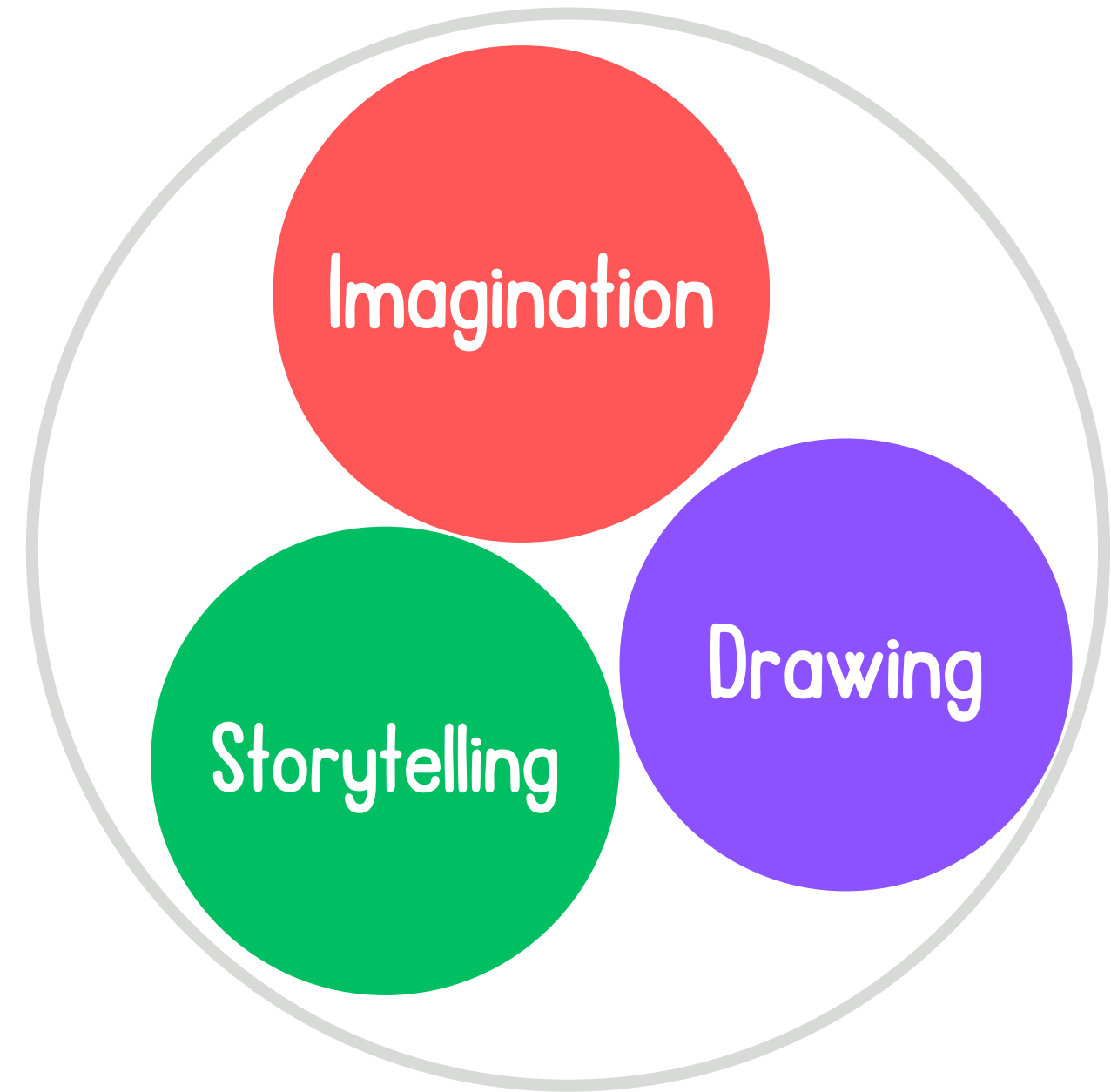
- **Impact**

What improves because this product exists?

Use AI to:



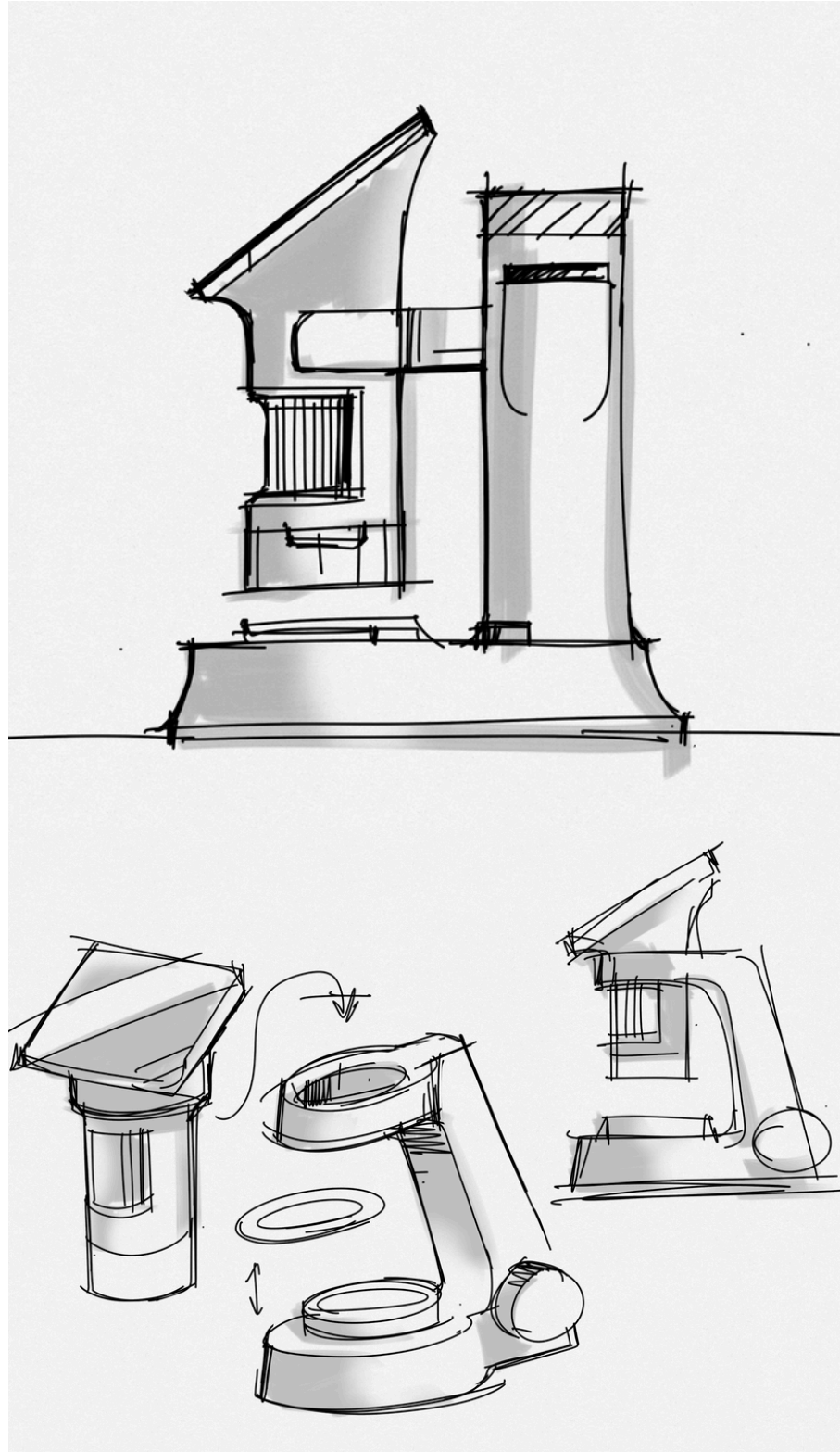
GROW



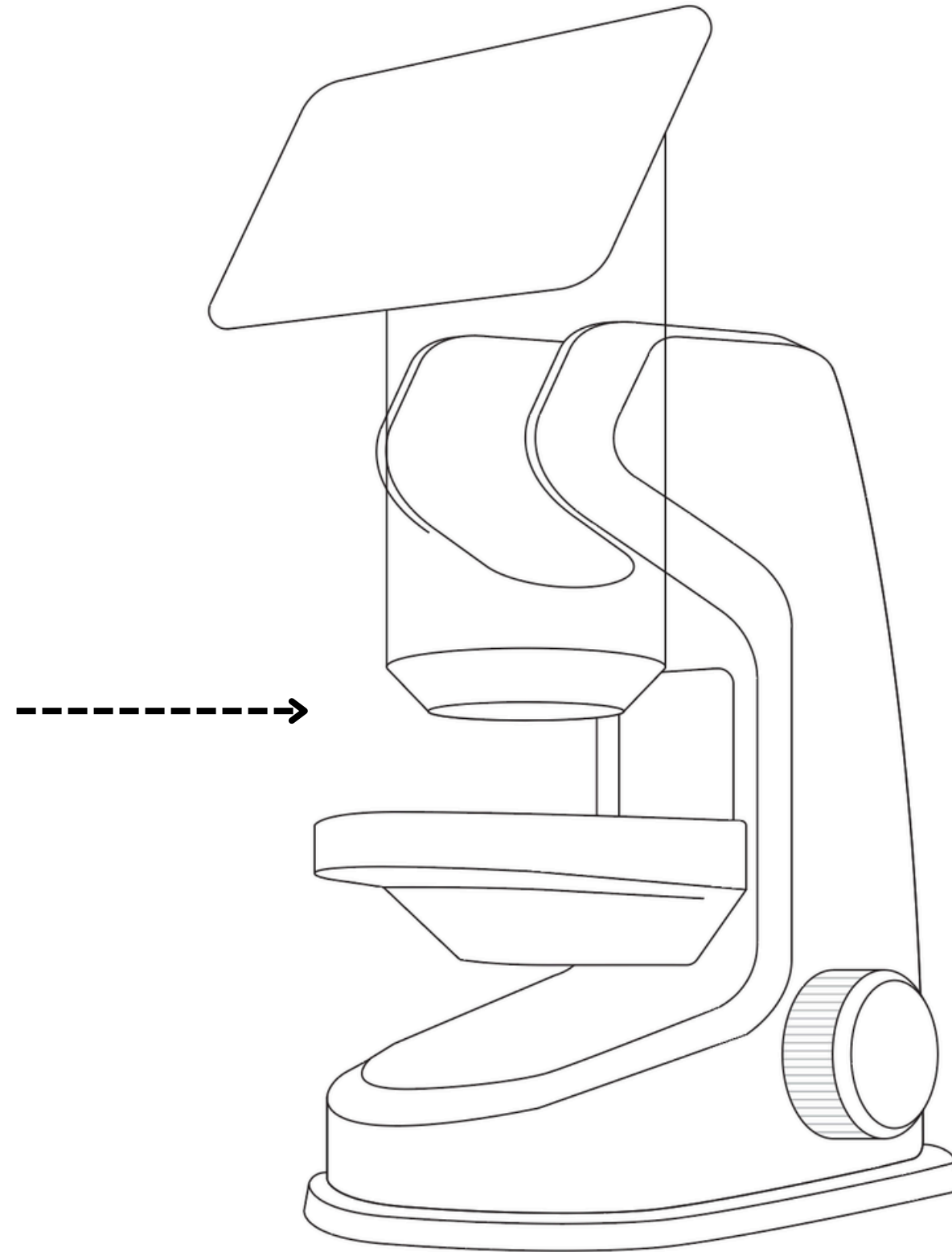
BOOST



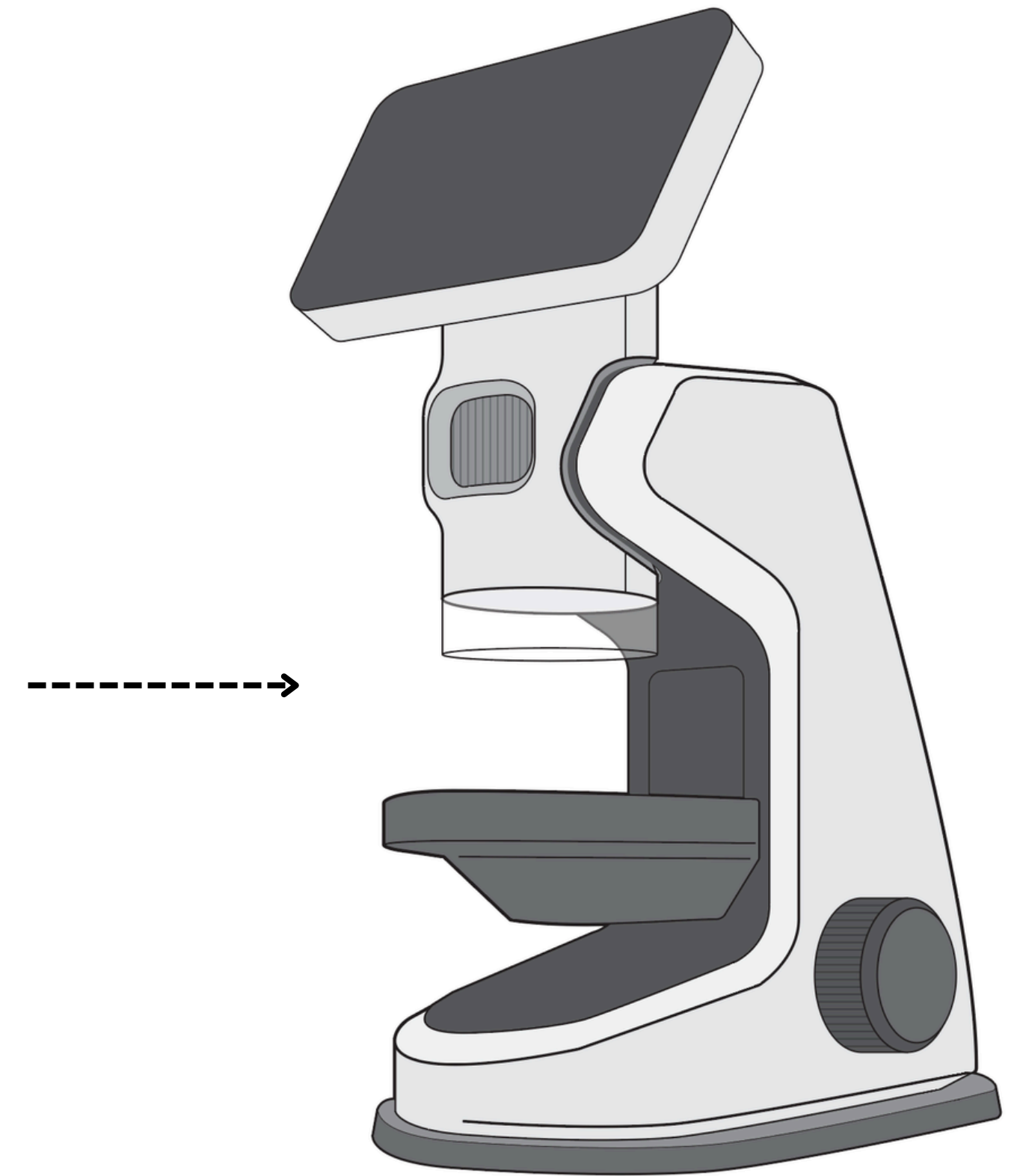
Sketch to Render



Concept Sketch



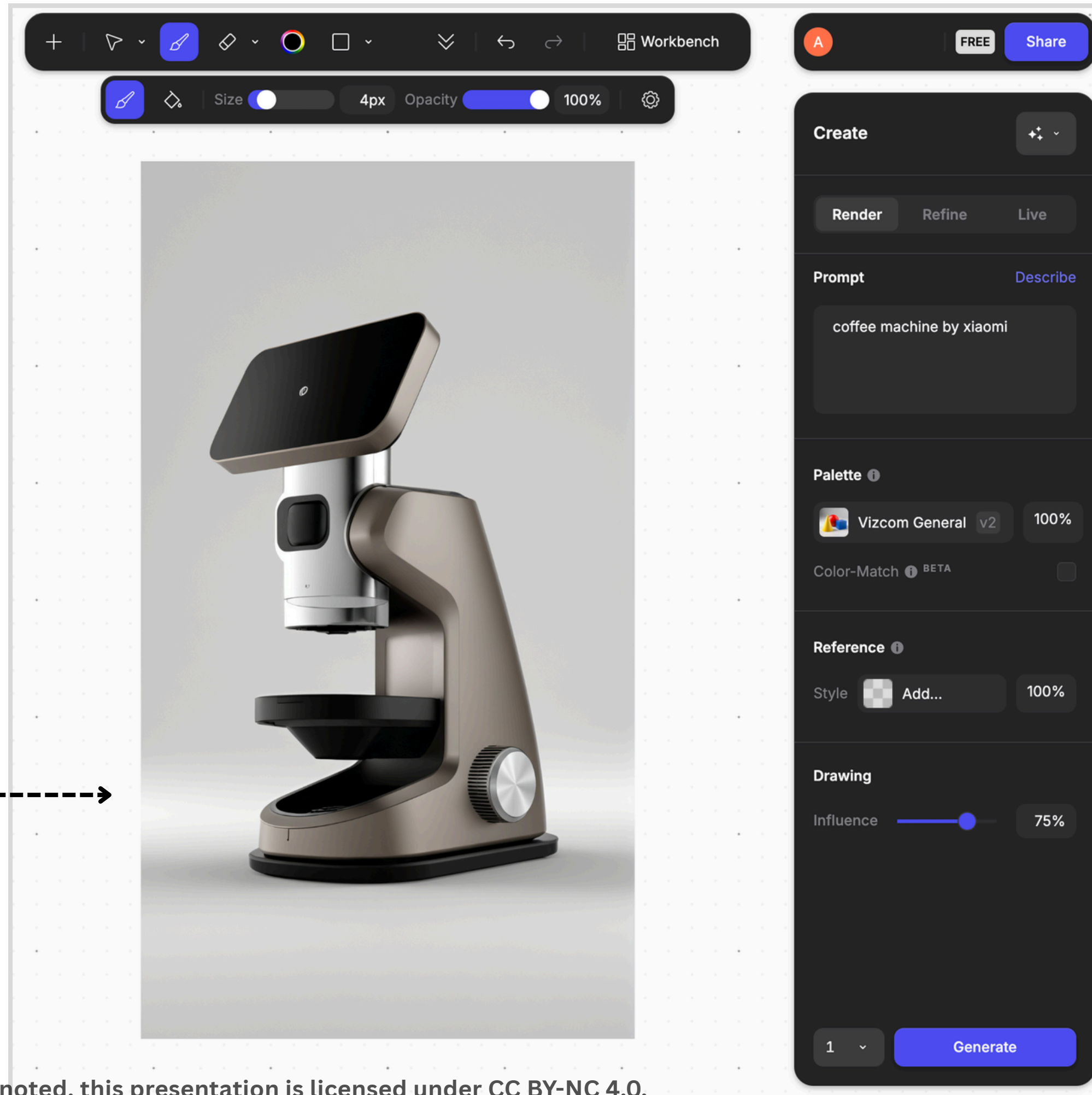
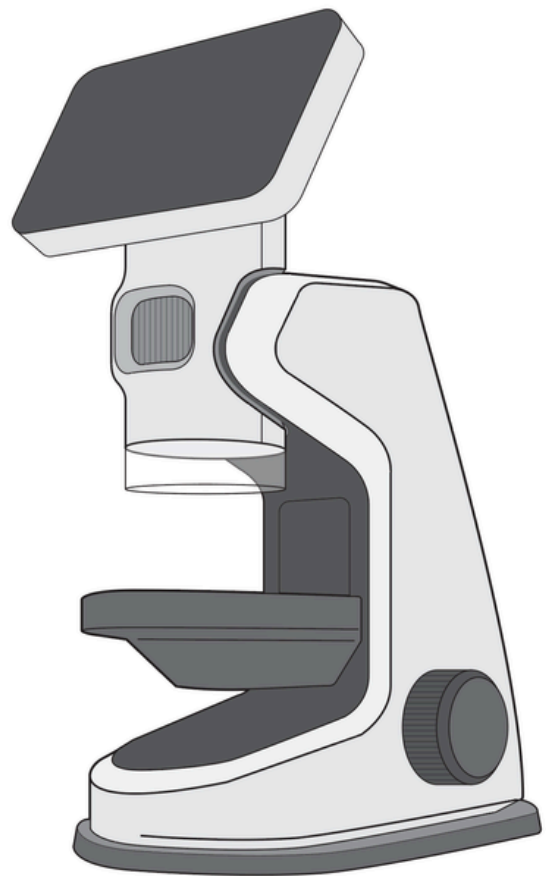
Line Drawing



Flat Shading

Realistic Shading with **Vizcom**

Input



Interface

Qualitative
description

How similar
to your input?



...**Dyson**, with **cyberpunk futuristic** elements and **metallic** paint finishing



...**Y2K** era, with high use of **transparent** housing revealing the inner workings of the machine



... heavy influence of **wabi sabi**, using **stone textures** and **earth** palette, no **gloss** texture

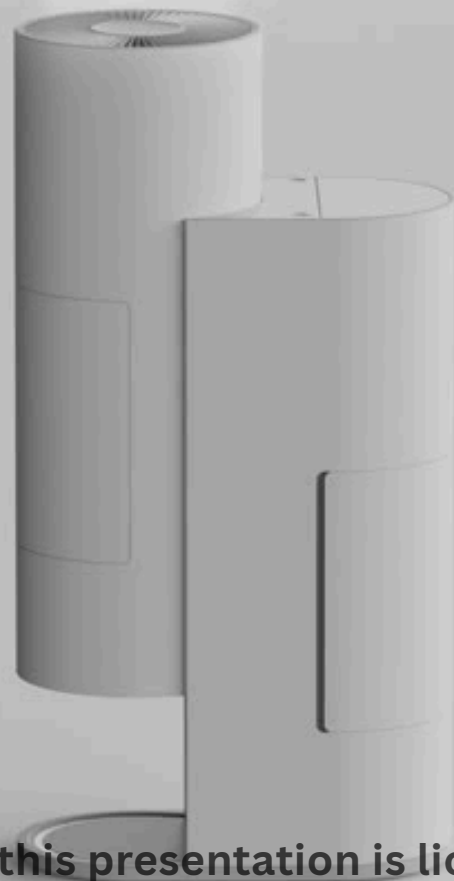
CMF

“Colour, Material, Finishing”

Keywords:

*“Neutral, monochrome, metallic,
transparent, brutalist, flat, anodised”*

Contextual and historical
understanding behind design styles





1930

Steel



1950

Wood



1960

Plastic



2000

3D-Sintered metal

有形

“Modernism”

“Mid-Century”

“Space Age”

“Biomimicry”

無形

[Progress]

[Comfort]

[Moonshot]

[Techno-optimism]

Prototype to Render





Keep the overall silhouette and design intention of my input sketch/reference.

Create a product concept rendering for:

Product type: **neckworn surround sound speakers**

User: **gamer**

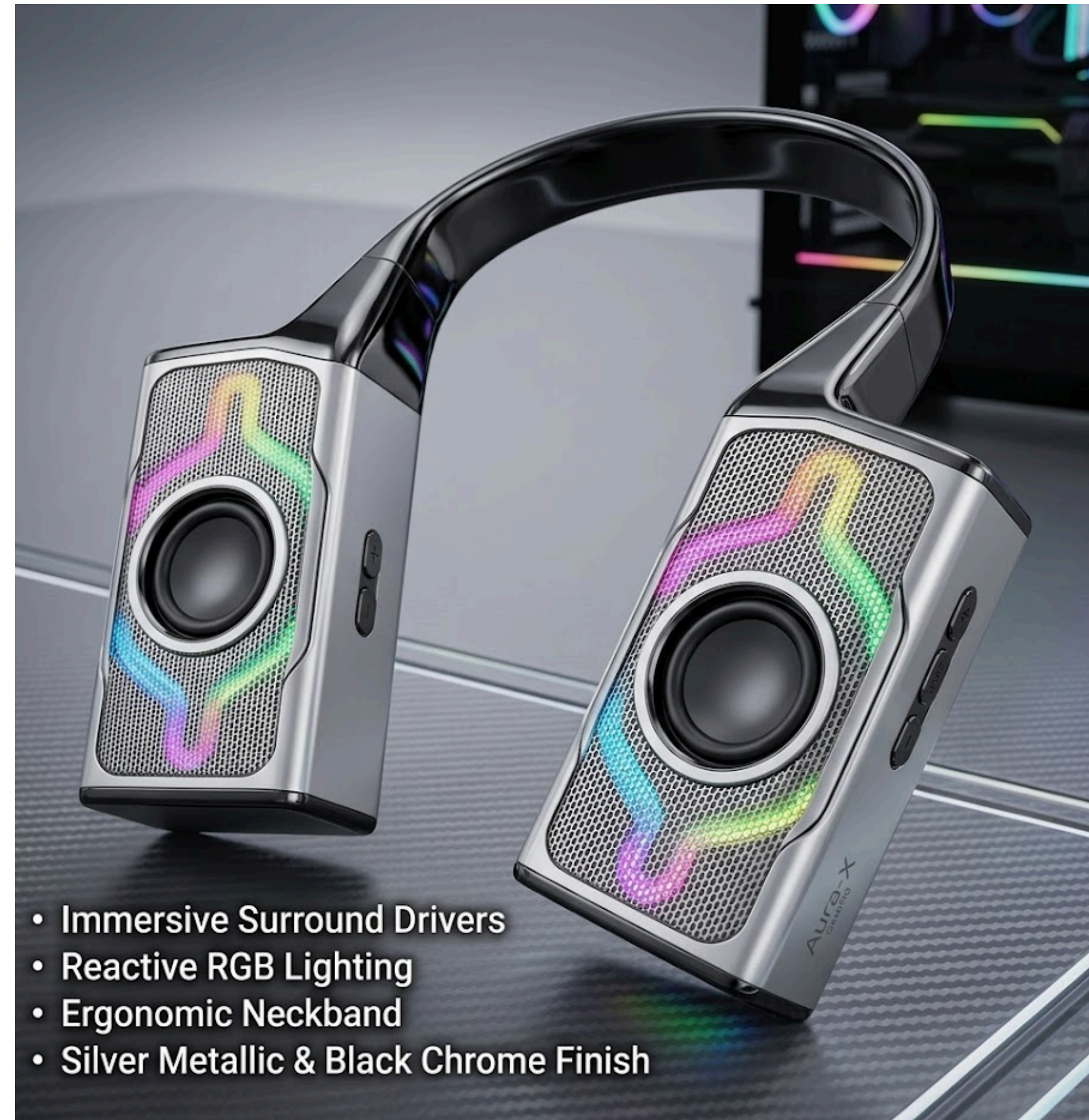
Context: **home use**

Design intention:

enjoy sound and immerse in rgb lighting

CMF keywords:

rgb led lighting, silver metallic, black chrome



for those who can't draw, you have Gemini



AI is a predictability machine



Weak prompt example:

“Make a smart flowerpot.”

Stronger prompt example:

“Design a calm smart flowerpot for an elderly person living alone. It uses a small AI voice module to remind watering and respond emotionally. The form should feel ceramic, warm, stable and non-technical. The OLED screen should be subtly integrated near the base, away from water. Include soft speaker holes and a USB-C access point at the back.”

The Prompt:

Keep the overall silhouette and design intention of my input sketch/reference.

Create a product concept rendering for:

Product type: [smart flowerpot / desk organiser / learning companion / etc.]

User: [specific user]

Context: [home desk / classroom / elderly bedroom / workshop / etc.]

Core AI interaction: [what the product says or helps with]

Design intention:

[calm / playful / professional / protective / friendly / technical / premium]

CMF keywords:

[colour, material, finish keywords]

Important hardware constraints:

- Small OLED screen must be visible
- Microphone and speaker openings must be considered
- USB-C port should remain accessible
- The ESP32 module should feel integrated, not simply stuck on
- The product should be suitable for [water/dust/children/desktop/elderly use]

Generate a clean industrial design concept on a plain white studio background with minimal shadows, realistic but still suitable for prototyping.



use references to overcome mediocrity



'GY' Smart Flowerpot

AIoT product concept

STONY MATERIAL FEELING

MATTE FINISH

REFINED FORM

SUBTLE MICROPHONE OPENING

INTEGRATED ESP32 MODULE

SIMPLE OLED DISPLAY

SOIL MOISTURE SENSOR
(INTERNAL)

USB-C ACCESS

RELIABLE REMINDER
(WHEN THRESHOLD MET)





Tencent HY 3D Global

Multi-view for 3D generation

“ Create a front, side, back and top view of the same product design.

The design must be consistent across all views.

Use a white studio background with no shadows.

Do not include text, hands, people or extra props.

”





crop and save views
individually

multiple
images



Tencent HY 3D Global

Text-to-3D Image-to-3D

Single Image Multiple Images

Add Multiple Views (Min2, ...)

Image Upload Suggestions ⓘ

Select Model ⓘ 3DGeneration-V3.1 ▾

Model face count

1.5m 1m 500k 50k

Generation type

Geometry+Texture Supports Topology Staged Generation

Generate Now

3D Studio

Complex geometry consistent splitting, Professional and controllable brush splitting

Before After

3D Studio

INSPIRATION GALLERY

All Products Anima

Text-to-3DImage-to-3D

Single ImageMultiple Images



Image Upload Suggestions ⓘ

Select Model ⓘ3DGeneration-V3.1 ▾

Model face count

1.5m1m500k50k

Generation type

Geometry+TextureStaged Generation

Supports Topology

Generate Now





Left 45° View





Right 45° View



Left View

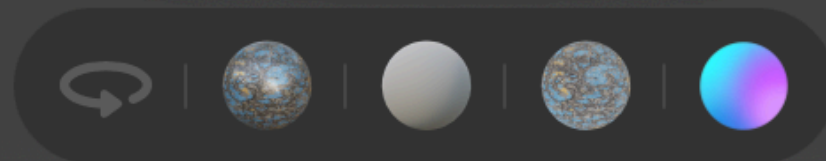


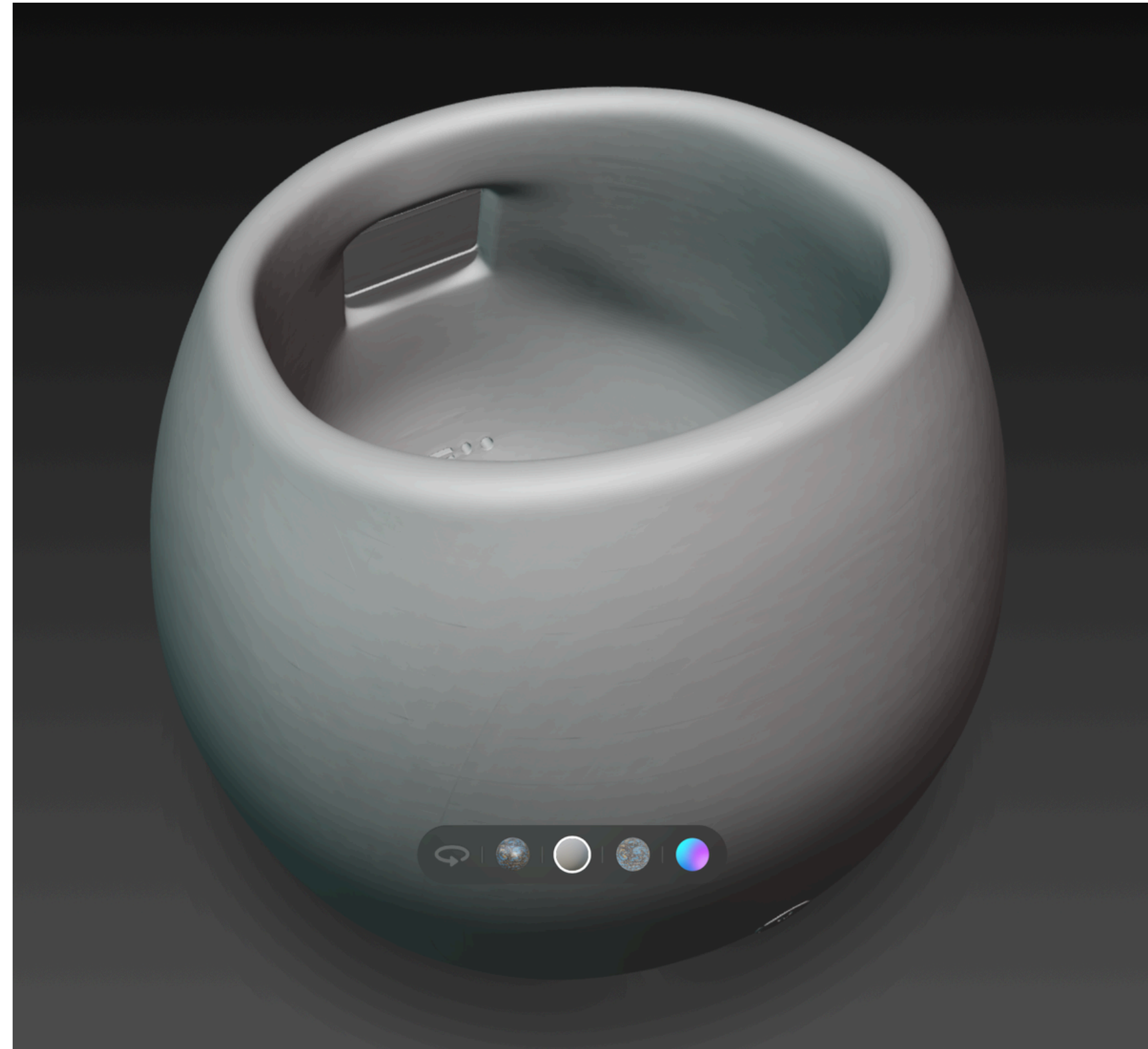


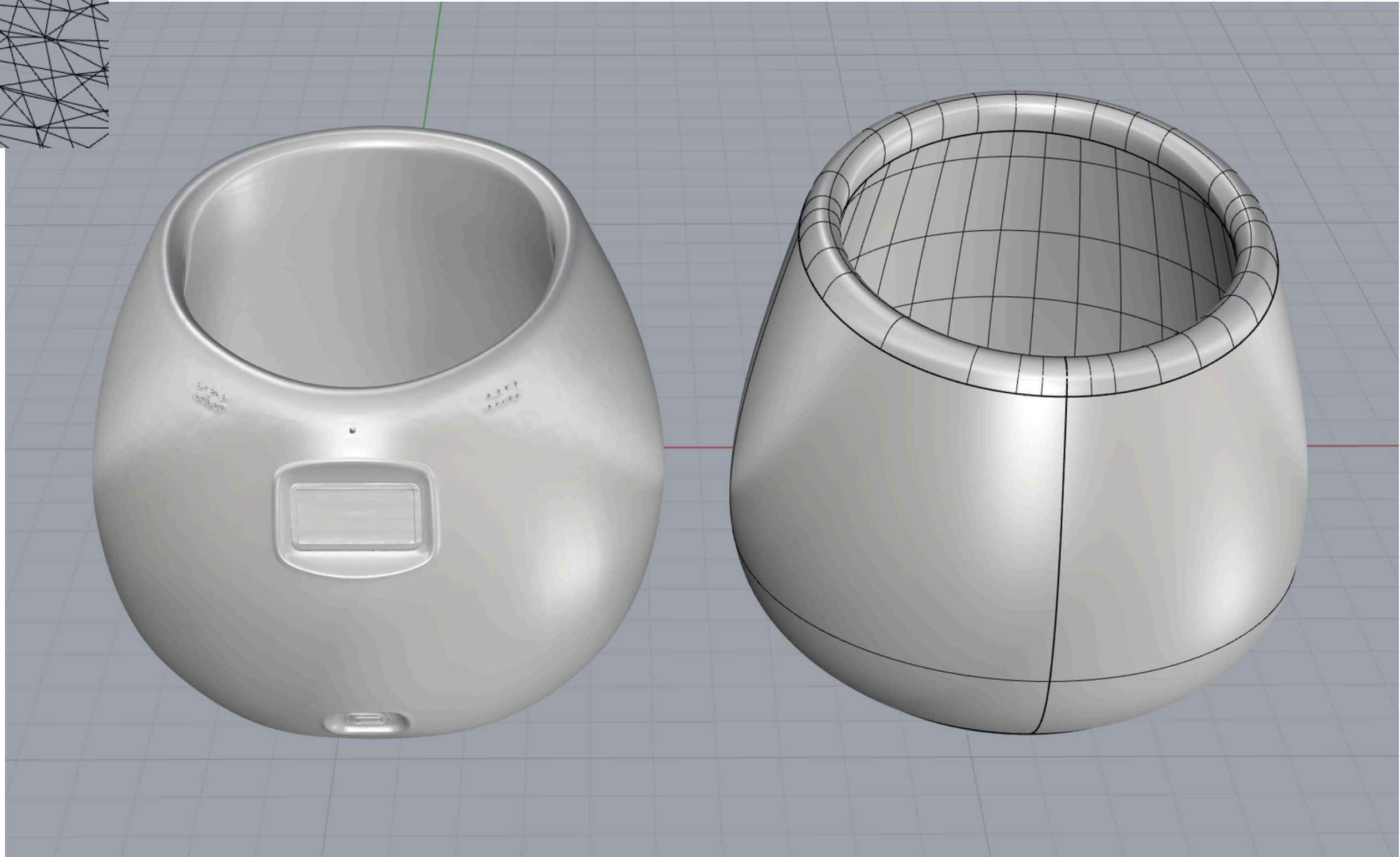
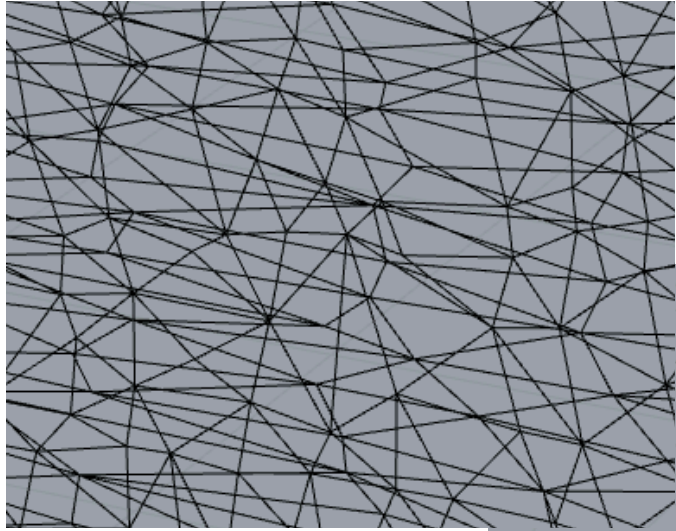




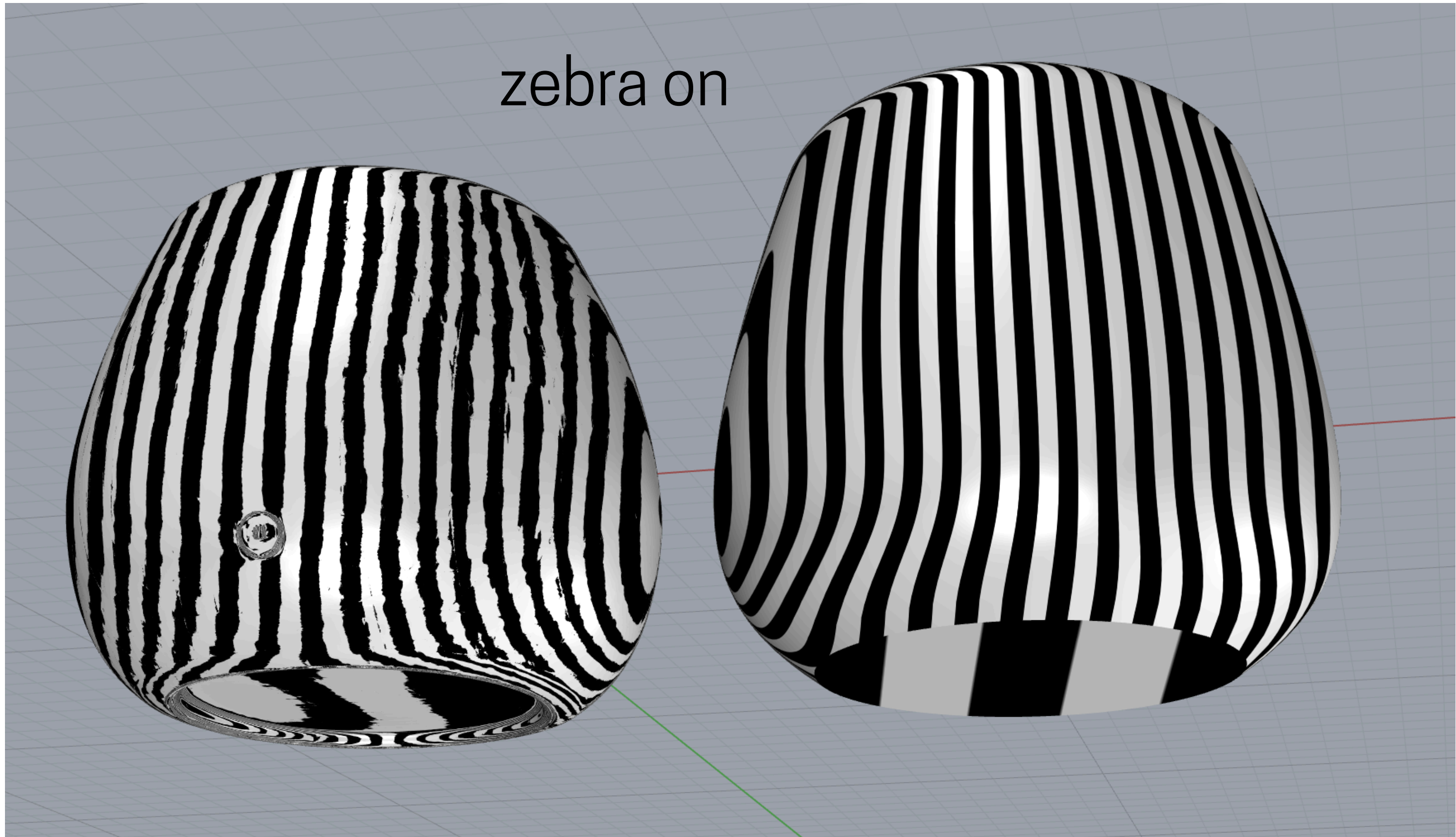
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zebra on



sharing time!

~~ATTENTION~~ INTENTION

CAUSE → EFFECTS

TEST ↔ INTERATE

SUPPLY ✕ DEMAND

EXPRESSION INGENUITY

SILENCE  BEAT DROP



**DESIGNERS =
IMPACT CURATORS**

策展人

stork
stork

THANK YOU

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