

Can you ask AI to make a penguin?

Don't build the 3D model. Build the **AI skill** that makes a good one from reference images, for any animal.



100%

of your course mark goes to the **first team** whose skill passes judging. The winner chooses how to split it across the instructor's courses or among team members.

THE TASK

Write an **agent skill**: a SKILL.md plus scripts. Given reference images of an animal, it must make an AI model build a 3D model, first **without texture**, then **with texture** matching a final image. We run your skill, unattended, on **three hidden animals**.

HOW IT WORKS

1

Get the practice kit: penguin references, final image, scoring script.

2

Design and test your skill on the penguin. Record a demo.

3

Submit by the deadline (up to 2 submissions per team).

4

Staff run it on 3 hidden animals. Script score, then expert review.

MODELS ALLOWED

Opus

5.5 or lower

Sonnet

5.5 or lower

Sol

gpt-6.1-sol or lower

Luna

gpt-6-luna or lower

Mix them as you like. These are the only AI models allowed. **AI image generation is allowed. AI 3D generation is not.** Your own scripts and tools are fine.

JUDGING

- **Script:** shape overlap with the references, and colour match to the final image.
- **Experts:** is it complete, recognisable and general? Was anything done by hand?
- Pass bar: **0.80 shape and 0.80 colour**, then expert approval, on **all three** animals.

LIMITS PER JUDGED RUN

- **2.5 million tokens** in total
- **2 hours** running time
- No human help while it runs
- No hand edits to any output

Your own development and testing has no limit.

DATES

- **Fri 23 Oct:** team registration deadline, by email. A team lists names and student IDs. A student working alone need not register.
- **Tue 10 Nov, 11:59 pm ET:** submission deadline.

YOUR SKILL WILL BE TESTED ON OTHER ANIMALS

The penguin is only for practice. To judge your skill, staff run it on **three different animals that you have not seen**. They are not penguins, and their bodies may be very different (other shapes, thin or soft parts, no legs). A skill that only works for penguins will fail. **Test yours on other animals**, for example a turtle, frog, giraffe, bat or crab, and build one that works for any animal.

Questions or team registration

Include "penguin challenge" in the subject line. Practice kit and rules: penguin-challenge.pages.dev

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