



LOA DING

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# BODYSMAP CALL





will join their friends on a video call, swap bodies, and imitate one another. Then, in a cutting edge game of deception, players will vote on who is who.

"We love this body swap call creative. It's a jaw-dropping, viral, and naturally hilarious social game that leverages humor and tech all at once."

Note: The above is not a "real" video, and was generated using Al



# COULD WE DO REAL TIME?





## 1. VIDEO CLONING

# Live Portrait

We tried several options including faceswap and portrait animation, but **Live Portrait** was the best for our needs

To run smoothly at 24 FPS required massive compute power!

Trial with an NVIDIA 4090 GPU (24GB)



Real person

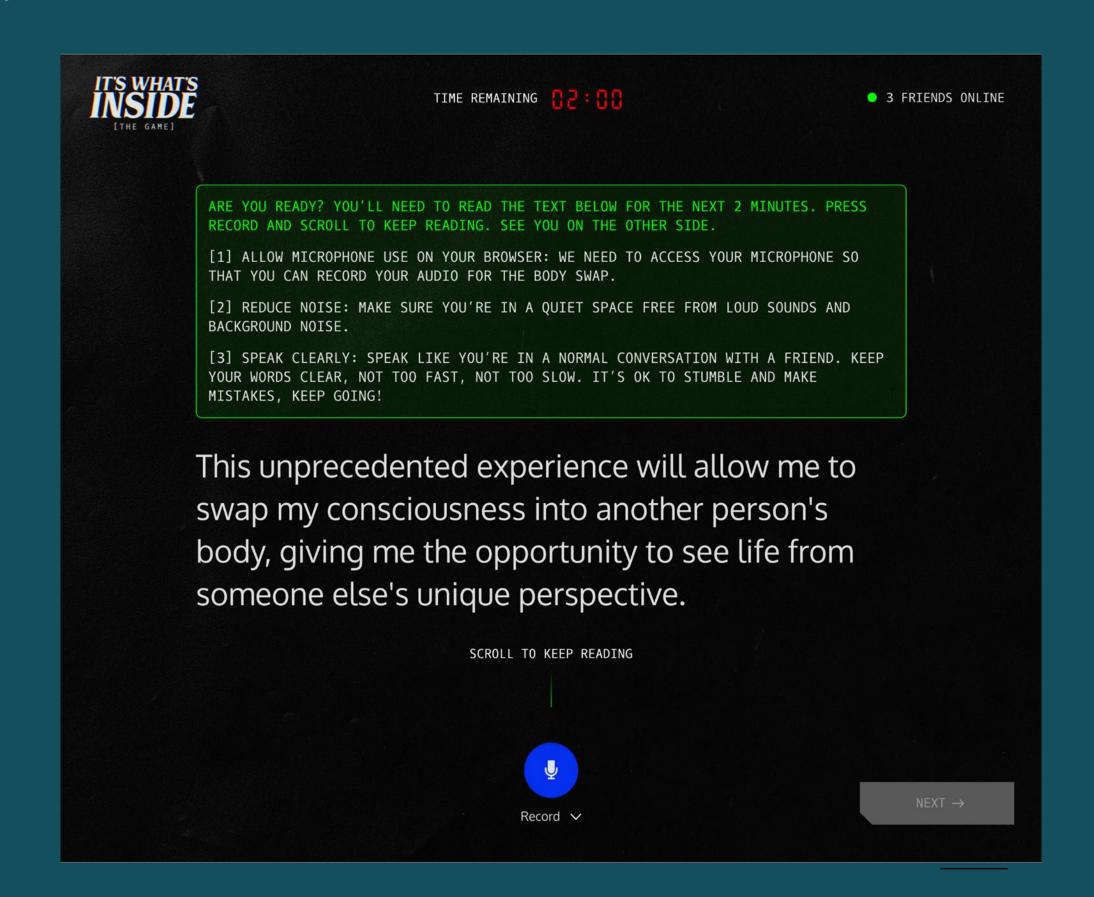
AI clone

## 2. AUDIO CLONING

# Retrieval based voice conversion (RVC)

- + Real-time speech-to-speech voice conversion with low latency
- + Preserves the original speaker's emotional tone and vocal attributes
- + Near-indistinguishable from "real life" when supported by sufficient computational resources!

There was a start-up in this space, but they weren't ready for the scale we needed

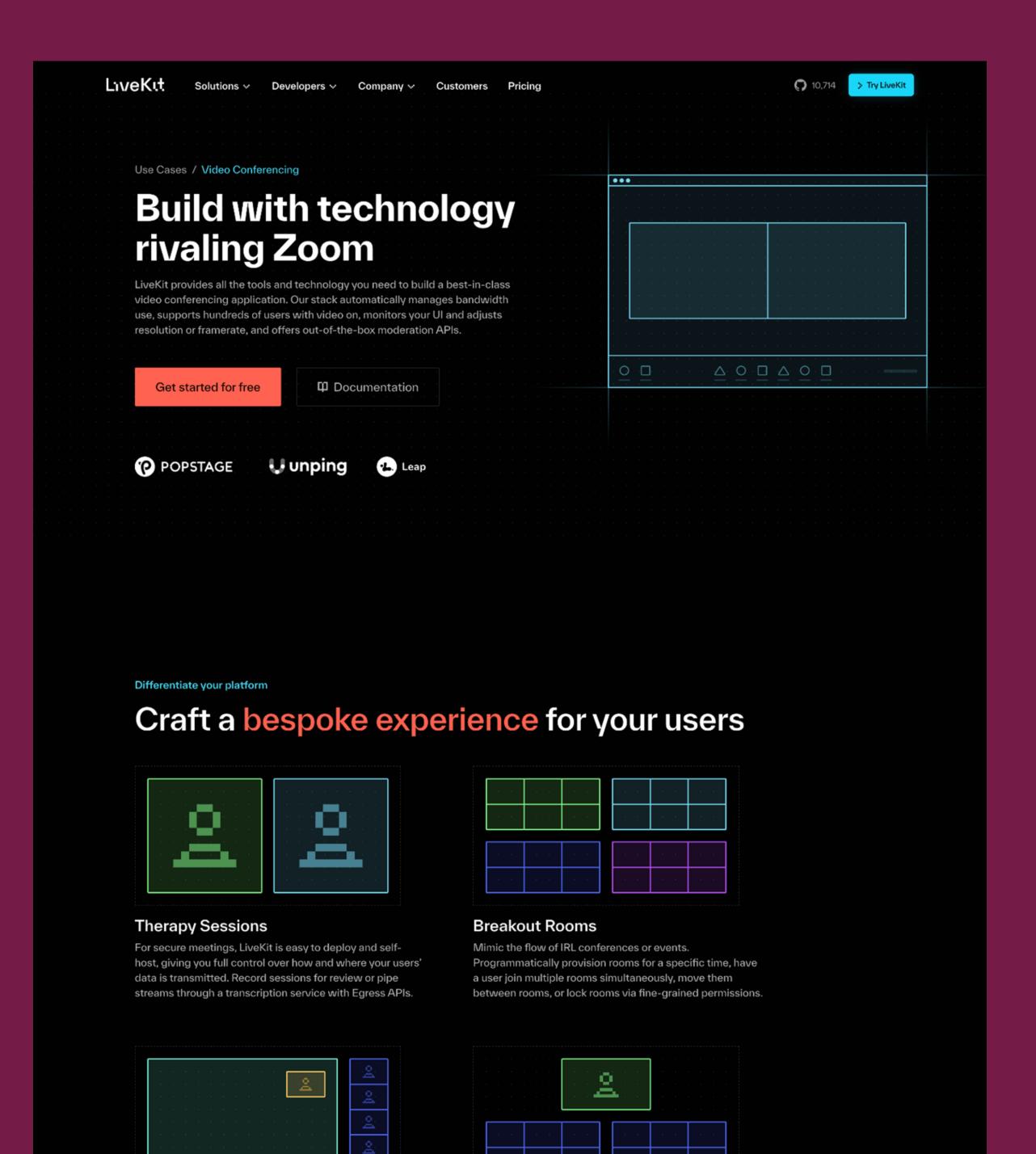


## 3. VIDEO CONFERENCING

# Live Kit

Bringing the audio & video together, into a Zoom-like experience

- + A video conferencing solution that can be completely customised on the frontend
- + Able to modify the streams for audio & video







### GAME SETUP

#### JUMP ON YOUR COMPUTER

To make sure that we can swap you into your friends body, you'll need to use a laptop or desktop with a webcam and microphone for this experience.

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#### CREATE A ROOM

Create a room for you and your friends. Make sure they're available to play before starting a game.



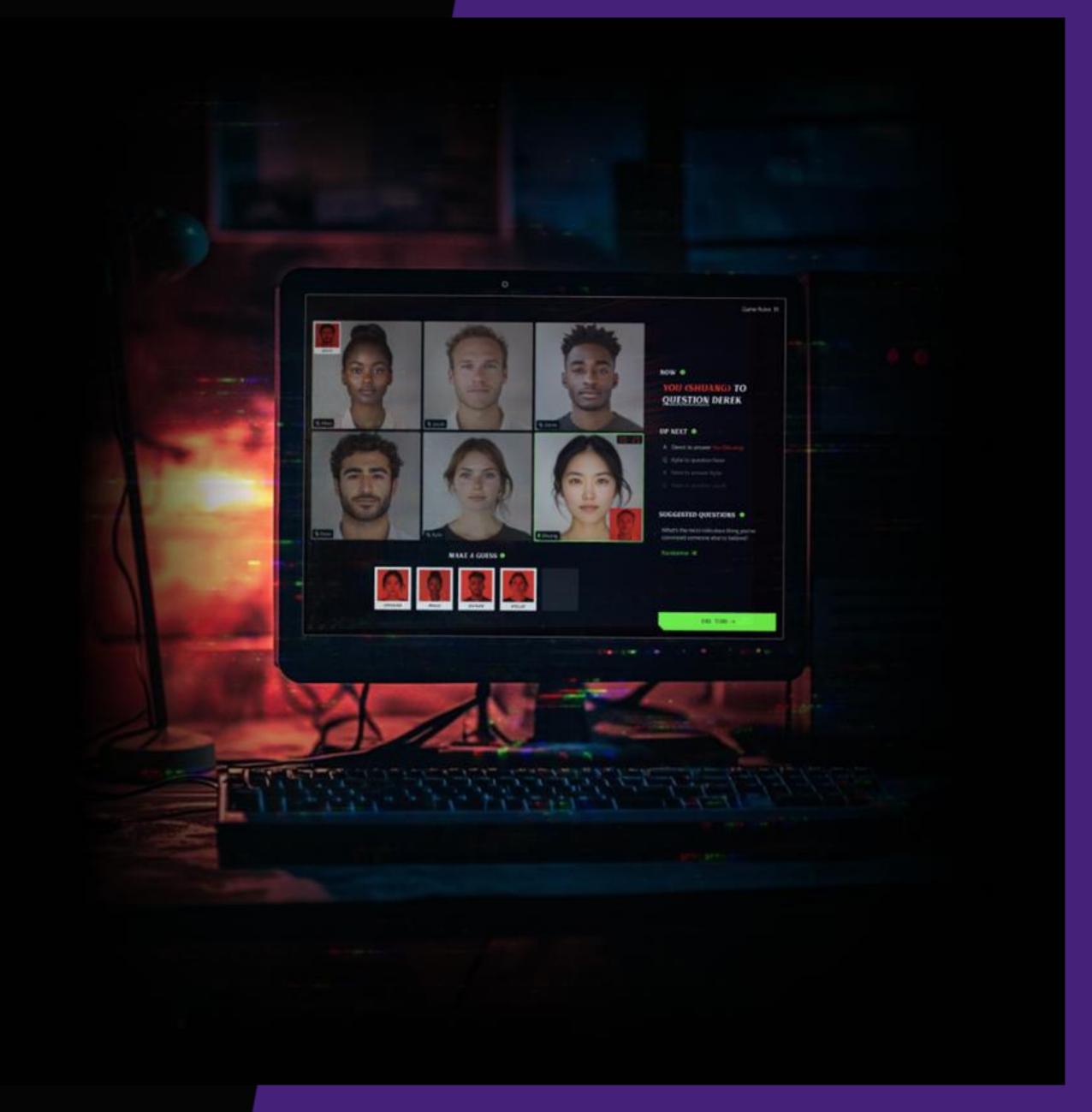
#### SHARE LINK WITH FRIENDS

Share a unique link with 3-5 friends to invite them to your room (make sure they're people you trust).



#### RECORD YOUR VOICE + TAKE A PHOTO

You'll need to record 2 mins of your voice and take a photo of yourself to be able to body swap with your friends during the game.















## **GAME PLAY**



SWAP BODIES WITH YOUR FRIENDS



IMPERSONATE & GUESS WHO IS WHO



TAKE TURNS IN FAST-PACED Q&A



GAMES LAST FOR 10-15 MINS Start game  $\rightarrow$ 



## INFRASTRUCTURE

# Securing high-performance GPU infrastructure

# Critical requirements:

- + NVIDIA A100 GPUs
- + Guaranteed capacity



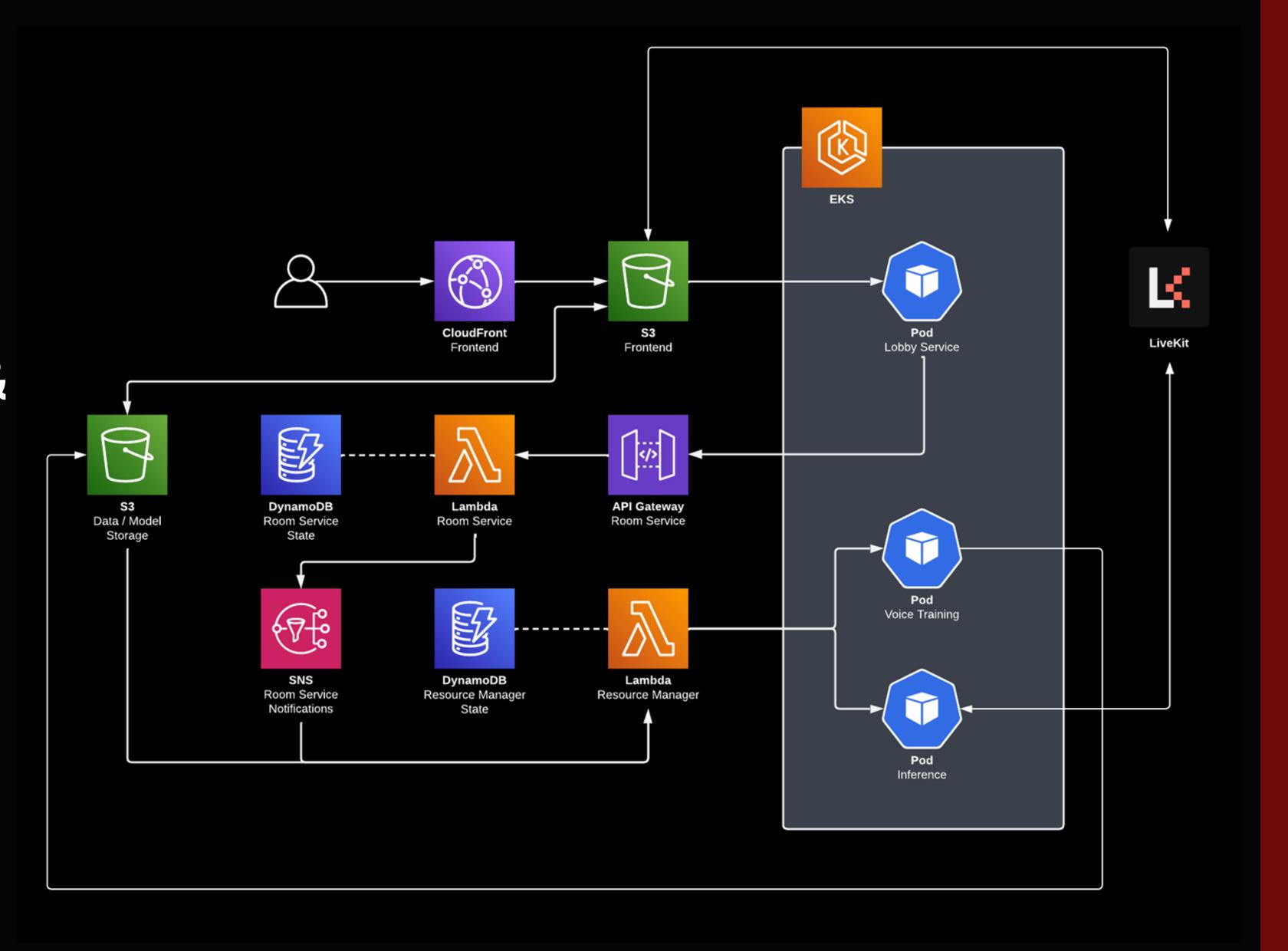




# ARCHITECTURE

# \*\* Claude

- + 40% of infrastructure & orchestration code
- + 95% of our backend room service code





# THE PRESS



Home > Entertainment > Games

#### Exclusive: Play 'It's What's Inside' with friends through Netflix's online game

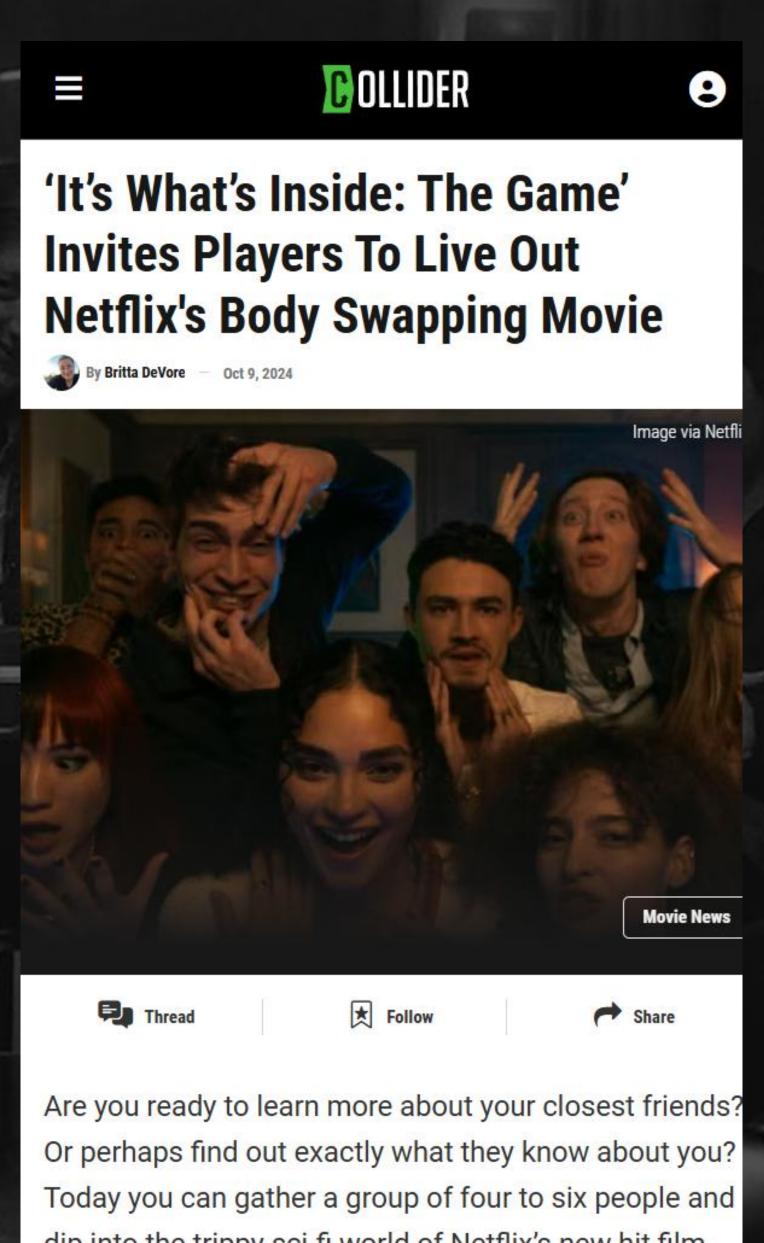
Body-swapping has never been so easy.

By Kristy Puchko on October 9, 2024

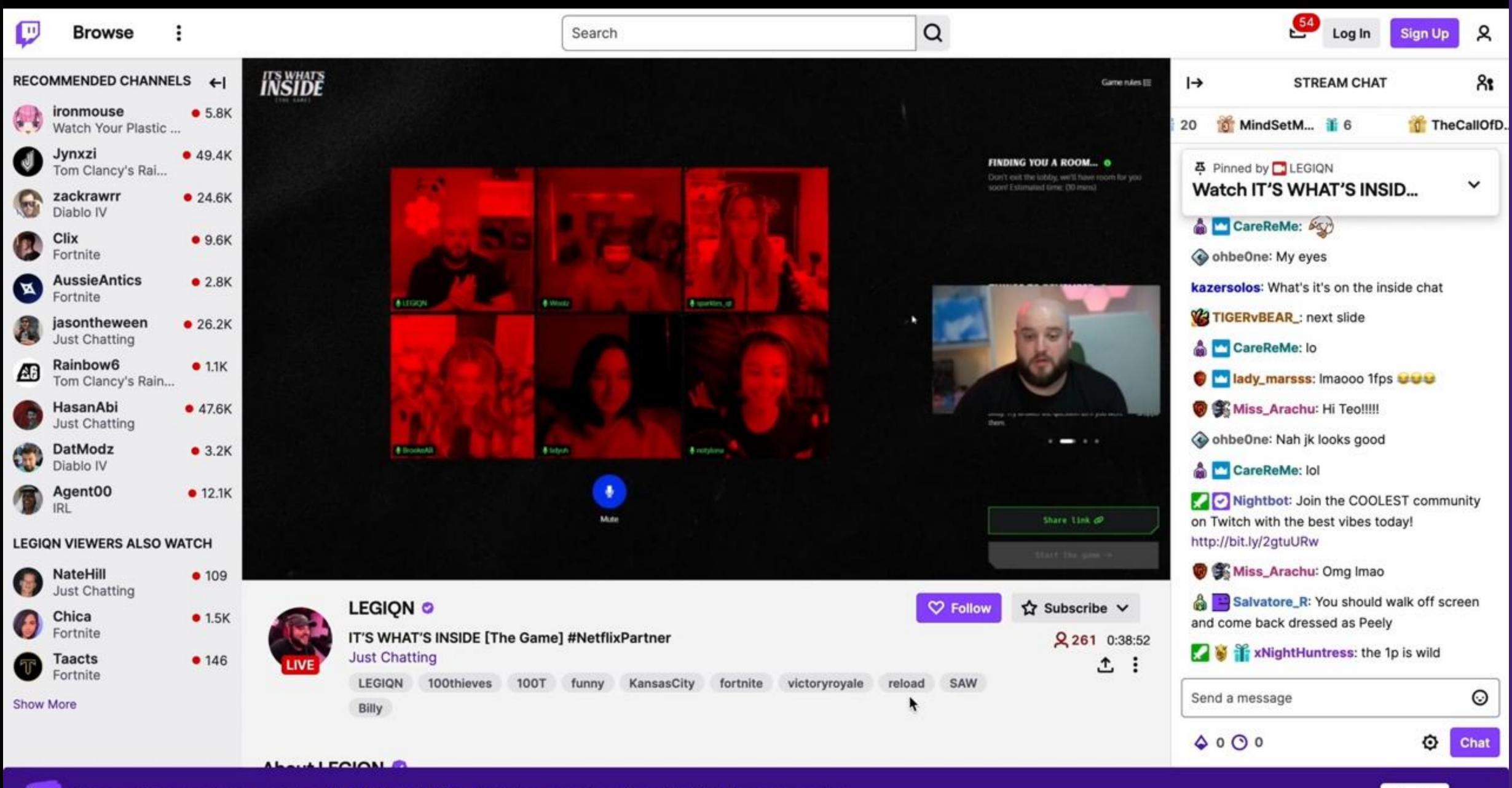
All products featured here are independently selected by our editors and writers. If you buy something through links on our site, Mashable may earn an affiliate commission.



Credit: Netflix



dip into the trippy sci-fi world of Netflix's new hit film, It's What's Inside. If you've already seen the movie, then you might have some questions like. "How am I going









# Merci beaucoup Thank you

The future. Faster