

# Using Generative AI to create an Avatar

## Tools Required:

- [Discord](#)
- Virtual Microphone Software (I used [VB virtual Microphone](#))
- [Elevenlabs](#) Account
- Generative AI chat bot of choice
- [Character.AI](#) Account
- [Fugitech.reactive](#)
- [OBS](#) or similar streamer software application

## Helpful Skills to have:

- General Computer Knowledge
    - Input/output devices
    - properly linking and connecting sites to programs/applications
    - Troubleshooting possible issues
  - How to effectively prompt Generative AI
  - How to craft a custom Generative AI for character
  - Minor art/design skills for avatar creation
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## Coming up with the concept & visual of the avatar

Most Generative AIs (ChatGPT, Grok, Claude) provide image generation. Image generation can begin from a prompt but it is almost always better to start with an originally created image to inspire the generation.

Think about what the avatar would/should look like when pertaining to the project subject and create a rough draft image on paper, MSpaint, or any other art creation application (Or pay an artist!)

Add as much detail to the image as possible before entering the image into the Generative AI (knick-knacks, logos, marks, pockets, accessories, ETC)

If not using an original image then be as descriptive as possible (Style of clothes, accessories, skin tone, hair type and color, eyes, facial features, ETC) when trying to generate the character with Generative AI. Also designate a specific art style (Cel-shaded, Cartoon, Anime, Realistic, ETC) so the generated image can fit the stream narrative / purpose.

inform Generative AI at the beginning prompt that the image(Generated or provided) will be used as an avatar for a livestream and give the proper dimensions for a character/avatar image that will fit in the corner of a stream.

If using an original image ask the Generative AI to '(Please) Enhance this image by making the background transparent(PNG) and by making the image look (any art style) from what you see' or your own version of prompt that results in a preferred generation.

If generated image character position is still off or the posture/position isn't correct ask the Generative AI '(Please) Pivot the character(s) (Head) so they are looking at the viewer.'" or other direct methods to get a character looking at the 'camera'.

Results will vary but try to keep changes minimal otherwise the generated image becomes too messy or distorted from previous generated images and a restart of the prompt is recommended with more additional information in the beginning prompt to get a better result within 1-3 image generations.

I recommend starting out with a 2D avatar for first time users so they can understand how everything such as the avatar image/render, audio settings, and Text-To-Speech(if using) connects to the stream/recording program(OBS is what I used) and other settings.

3D avatars can be a leveled up goal but requires understanding on 3D software, coding, how to rig a model, how the model interacts with platforms, services, streams, and other features inherent to 3D modeling and creation (Or pay an artist who is familiar with this modeling method!)

Generative AI can be used in all of those aspects to achieve a 3D avatar but that is going deeper down the rabbit hole than I was willing to go and some beefier software will be required to properly use and store the 3D avatar.

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## **Live Generative TTS Avatar**

Once a Generative voice(Elevenlabs), Stream platform(OBS), and Avatar(Fugitech) are selected, now begins the hard part of connecting TTS to the Avatar and platform.

A PROPER live Generative response avatar requires understanding and messing with Generative AI API, coding, scripts, and implementing them together, a bit harder than the average level of computer knowledge but of course doable with time and patience.

2 monitors to have the TTS Gen AI, Livestream, and other windows on one screen and the main program application/ task on the other and voice dictation to talk to the Generative AI is preferred and recommended but if not available than get used to Windowed mode and lots of alt+tabbing to input questions, queries, and prompts to the generative Ai voice in-between livestreaming if using a scripted AI voiced generator.

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## **Character / 2D Avatar Creation**

Create an avatar by prompting a profile / avatar image(PNG) with a transparent background from a generative AI. Generate 2 avatar images, one idle and one with the mouth open as if talking.

Download images that look like what was in mind for the idea.

Create a voice from Elevenlabs to generate a voice that fits the avatar. My recommendation is to look up demeanor & accent of a popular character in media

that best fits the avatar along with the type of tone the character uses when they speak to input into the Elevenlabs voice generator prompt bar.

Elevenlabs will provide several options to choose from along with an option to regenerate and try again.

Once a voice is selected Download or record a 15-20 second audio clip of the Generated voice speaking to help the live chat bot you will make in Character.AI

Go to Character.AI, Create a character/persona and use the downloaded audio clip from Elevenlabs for the Character.AI avatar to use for its voice and then write in the character description and definition of the character to help fit the voice in Character.AI (Also ask ChatGPT or a Generative AI aware of the plan for better input!)

Begin a chat with the created avatar on Character.AI as it may have to be trained. Better responses will come from the character if taught about the topic. The character will probably know basic information about the topic but spending time will allow you to share more intricate tidbits of knowledge that will help it learn and grow as a companion or star of the livestream.

Character.AI character information input/prompt bars are different from regular Generative AI Prompt inputs so learning about how they work or creating a Character.AI specific prompt to the avatar with ChatGPT will help greatly as being more specific with the avatars input / expectations to a situation will almost always net better responses as opposed to being general and vague.

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## **Setting up the Avatar(Fugitech) with TTS(Character.Ai) for Livestream**

FugiTech is a good tool for 2D avatars. Fugitech has a browser setup for avatar images, effects, and other options that pop up when the avatar is speaking or inert. Set up the images required,

Fugitech connects to a discord account / channel and provides a browser link that allows OBS to view the avatar on a stream/recording.

I would recommend creating a secondary Discord account that is specifically for the Avatar instead of using a personal account.

Open up OBS, create a Browser Source and connect it to the Fugitech Avatar name link. Join a (Personal/private) Discord server and join a channel to activate the avatar.

Go to computer audio settings and change browser application output settings to the Virtual Microphone Input

Connect the virtual microphone output(VB\_Cable) on OBS to the browser. Set the Discord microphone settings to the Virtual Microphone Input(VB\_Cable).

Run a test stream/record and test the voice in Character.ai on browser. Make sure the browser running the Character.AI Live Chat is detecting the physical microphone while OBS & discord are detecting the Virtual Microphone Input.

check the livestream if the Avatar is lighting up while talking with character voice and the Fugitech.reactive is properly displaying the idle avatar image and the avatar talking image by recording or livestreaming on OBS

If successful then all that is left is fine tuning voice, AI knowledge, the livestream, and whatever tweaks need to be done

If unsuccessful then figure out which connection point isn't hooked up, what issues are arising, whatever is off. Ask Generative AI for help!

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## Setting up an introduction in livestream with TTS

This is an alternative method of starting a livestream inspired by TV shows how a narrator gives brief details about what the characters will be up to in an episode.

If using a character with TTS then a solid method to begin would be to start the livestream using an Elevenlabs opening (Pre-scripted and generated) to narrate the

purpose and goal of that specific livestream or even reuse one for the avatars story arc.

The voices should sound similar to the Character AI if using the audio clip from Elevenlabs and it allows the viewer to understand what the goal is for the livestream instead of trying to get the Character AI to come up with a good answer on the spot that is off the PoV/Character.ai avatar perspective.

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## **Posting on Platforms and separating the Creator from the Avatar (if using Avatar and Live TTS) during social posting.**

For me, I wanted a distinction between the avatar and myself. I may have made the avatar but it is a character used to host the livestream and not 'me'. I see myself as merely the 'driver' of the character and describe events to the character so it can respond as if the avatar was actually there.

There is the Character(Avatar) and there is the creator(You). If the character has been crafted in a Generative AI such as a custom ChatGPT and knows the specifics of what the situation is (Stream, TTS, Avatar, Purpose, ETC,)then it can be asked to describe the livestream or even give its thoughts or opinions on the subject matter which can be shared in written text in description boxes or social posts if that route is chosen.

What I do when generating a recap is give the Generative AI(Crafted ChatGPT) character a timeline of what happened during the previous livestream such as Goal progress, Events witnessed, Locations visited(With details about the area), and strange sightings that occurred during the stream. Then I ask it to "(please) create a concise summary fit for (Platform) and copy the generated response if it sounds like an apt description of what happened.

I've been filling it in the platforms 'Description' bar with quotations("") to signify that this is a quote from the avatar/character before leaving my own (creator) description on the bottom.

It separates the 'character' from the 'creator' and possible audience expectations and understanding when they view the difference in perspective ("I" or WE). Technical versus in-character (Had some audio Troubles vs "And I roamed the land henceforth."), and just gives people the realization that this isn't just a 'channel' being run for a robot but something created by a human being with assistance from Generative AI.

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## **Merchandising.**

With an avatar comes the opportunity for merchandise. My avatar is a fisherman. That already gives me an idea of what to offer for sale.

- (Fishing) Journals
- pens
- equipment boxes
- patches
- tools
- Compasses/maps
- hats

Things of that nature in regards to a fisher.

Ko-Fi and Printify can be starting retail shops.

Badges / logos can be made via Canva to place on top of products.

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## **Closing Notes 12/28/25(Will be updated)**

Of course if you don't mind the voice offered by the Generative AI prior or prefer to use own voice than many of these steps can be ignored. Having an avatar is a great alternative for (faceless) creators that aren't or don't wish to be camera ready, wish to experiment with exploring and focusing on certain parts of a topic/subject, or want to venture into territories where anonymity would be preferred.

I wanted an Avatar for Livestream because I wanted to practice my experiment of 'Live Social Expedition' and I felt like keeping the narrative within a story(A Fisherman that travels between video games) featuring a character(Galactic Fisherman), a goal(Fishing in games while interacting with an audience), and a series of different video games with scenic views. And creating an avatar to fish was the best way to accomplish that.

It was also an interesting challenge to figure out and jury-rig all these elements to have a workable product.

Here is a decent [video](#) (made by me!) showcasing what the final result should look like.

It's not perfect as I never actually know what the character.ai chatbot will say but because of how I have the prompt instructions and telling it what we were doing before beginning a stream the Character.Ai avatar kept in line during the stream.

It takes practice but it's definitely fun and worth the time and tools it takes to accomplish.

Good luck!