

## What is TykeAI & Instructions

TykeAI, TykeAI Suki and TykeAI Expansion Pack 1 are 3 related apps that lets you and me interact with virtual companions in mixed reality and virtual reality on Meta Quest 3. You can have a conversation on just about any subject with your companion, sit down and chill with them, go for walks with them, dance with them, watch movies with them, exercise with them, they can analyze what you can see, and more. TykeAI Suki is the most advanced because Suki is the newest avatar with the latest features, like spatial anchors, dynamic navmesh, personality and relationship type settings, and gives the fastest responses.

### Setup instructions

To install the apps, follow the guide here : <https://docs.google.com/document/d/1h5fCOdB3vSEclZbynThPiJy4pr1bUbGl4fWz0jj6tn0/>  
(its just 4 easy steps)

Once installed, you'll need to login to the apps with a username and password. Your username is the email address you signed up to the Patreon with, your password is a 6 digit number that you will receive via Patreon message from Cris (TykeAI) after you've signed up (please be patient as might be asleep so I apologise in advance for the wait, I will message you as soon as I can, I had to add a login system as the app was being heavily pirated). You only need to enter these details once and then the app will remember them (unless you remove the app then reinstall).

### Navmesh Mode -

What the Navmesh mode is - For Suki and Mervin, they have what's called a Navmesh mode, this is where the Quest 3's depth scanner scans the area and forms a surface (a mesh) that they can walk on, by themselves! They will more or less know the layout of the area so will avoid walls, sofa's, tables, etc. The mesh that forms is formed where you look, so when you spawn in with Suki or Mervin, after toggling on the Navmesh to ON in the first menu you see, look around you, look to the floor, etc, and the mesh (the surface they walk on) is drawn where you look, it's invisible but its there. It updates quickly but may take a little time to form. Once it's formed, you can use the voice command "Come here please" and they will walk towards you if they are about 3 or more metres away. To see Suki in action on the navmesh, please see : <https://youtu.be/3xffhmbLYTE>



## Interaction Physics

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The Hannah avatar has interaction physics enabled when she is wearing her purple sleeveless T shirt with a white cross on it with black jeans clothing outfit, so change her into those clothes and you can use physics. It's not available with other avatars at the moment. To hold her hand, move your hand very close to her hand and press and hold in the grip button, she will then hold your hand. If you release the grip button she will stop holding your hand. You can hold 1 or both of her hands at once. This physics mode is pretty basic and a bit buggy to be honest.

## The VR Nightclub and VR Luxury Home

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To enter/exit the nightclub or luxury home, select the "Enter/Exit Nightclub" or "Enter/Exit Home" menu option. In the nightclub the four nearest seats, two tables, and drinks are grabbable, use your right controller (hold the grip trigger) to move them to match your real seating. To have an avatar sit, either move a chair to them or move them to a chair and choose "Sit On Floor" or "Sit On Seat" menu option. You can watch a movie with the avatar in the luxury home (how to do this is described in the "Things To Do Before Starting TykeAI.pdf") which is in the same Google Drive folder as where you download the app from).

In the VR Luxury home there are large picture frames on the wall with abstract paintings in them. You can add your own images to these - make sure there are image files in the Download folder or the Screenshots folder on your Quest, then move to the picture frames and touch it with your controller, this selects an image from these folders to be shown, in date order.

**Nightclub and Luxury Home navigation and Japanese Street** - to move around in the VR environments you can physically walk. Or use the controller. By default the controllers apply to the avatars movement etc, but if you press the right controller grip trigger it changes some of the button/trigger presses to applying to your own movement instead. So when the right grip trigger is held down the left thumbstick moves you instead of the avatar, the right thumbstick rotates you instead of the avatar, X / Y buttons control your height. Commanding the avatar (note voice commands are still in development, they might not be 100% reliable, you can use the menu to command the avatar just in case, and more voice commands will be added) :

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You can give the avatars commands by the menu or by voice. They understand :

*"Start dancing"*, *"Can you dance please"* will instruct the avatar to dance. There are 2 types of dancing, they alternate each time the avatar is instructed to dance. *"Stop dancing"* will instruct the avatar to stop dancing.

*"Change your clothes please"*, will make them change their clothes, works with these avatars : Hannah, Sakura, Thistle, Yumi.

*"Start exercising"* will make the avatar exercise and you can follow along if you want to. *"Stop exercising"* will end the exercising, or if you don't say this the workout will end after 3 minutes anyway.

*"Look at the image"* will make the avatar analyze what you can see. They can learn about what they see and remember things i.e. if they look at your dog for the first time, they will say I see a dog etc and will ask about it, so reply to them "That dog is Lola (or whatever) and she is my dog. In future when looking at your dog they would say "I recognise your dog Lola" etc.

*"Search the internet for the latest news on Trump (or whatever you choose)"* will make them search the internet for the latest news on Donald Trump. They can only do this a limited number of times per day.

*"Tell me about the movie"* if they are watching a movie with you and you have followed the instructions in the other pdf file found in the same folder as this one ("Things To Do Before Starting TykeAI.pdf"), they will discuss the movie with you.

*"Sit down please"*, *"Stand up please"*. Makes the avatar sit down and stand up.

*"Start walking"*, *"Stop walking"* makes the avatar mirror your walk so you can go for walks.

(If when you do this their height off the floor is incorrect at first, adjust their height with the A and B buttons.)

*"Lie down"* makes the avatar lie down, you will need to manually place them into the exact position by moving the right controller to them, holding down the right grip button and moving the controller to where you want to place them.

*"What can you remember?"* will make the avatar recall a previous conversation they've had with you, they can recall upto 1000 previous conversation (1000 for each avatar), these memories build over time so there will only be 1000 after a lengthy period of time.

(Disclaimer - please warm up properly before doing any exercise, only exercise if you are healthy enough. TykeAI is a not a qualified fitness

In game menu options (some options are not available in the scanned room app version):

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*Sit down/Stand up* - makes the avatar sit down or stand up (there are 2 sitting buttons on the menu, they activate different sitting positions)

*Start/Stop walking* - makes the avatar walk with you.

*Re-center avatar* - this will place the avatar in front of you.

*Look at you* - this will make the avatar face you.

*Analyze the image* - the avatar will look at what can you see.

*Shadows on/off* - in the non-scanned room version of the app, this will toggle ground shadows on or off.

*Start/Stop exercising* - will initiate a sequence where the avatar starts exercising and you can follow along if you wish. The avatars will encourage you to join in by saying motivational statements, such as "My Grandma can exercise better than you!". **Exercise at your own risk**

*Start/Stop dancing* - starts/stops the avatar dancing. There's 2 types of dancing, they alternate each time the avatar is instructed to dance.

*Chat bubble on/off* - shows or hides a chat bubble which displays the current conversation plus information about how the avatar feels etc.

*Music on/off* - starts or stops the app's music from playing. Don't forget you can add your music that will play if you prefer your own tunes, how to do this is described in the 'Things To Do Before Starting TykeAI.pdf' which is in the same folder as where you download the app from.

*Music Volume Up/Down* - adjusts the music volume.

*Change song* - will change the song that is playing.

*Enter/Exit Nightclub* - Takes you and the avatar to a VR nightclub or exits it back to mixed reality mode.

*Enter/Exit House/Home* - Takes you and the avatar to a VR luxury home where you can watch movies, the scenery & weather is randomized.

*Lie down position 1,2,3,4,5,6,7* - This makes the avatar lie down. You will have to manually place the avatar into a suitable position, on your bed for example, when they are in a lying down position. Most of the lying down positions place them vertically but in a lying down pose, so move the right controller to touching them or inside them (their stomach area is best), press & hold in the grip trigger then move/rotate them into a suitable position.

*Dynamic Occlusion On/Off* - this toggles the dynamic occlusion (please google 'meta dynamic occlusion' if you don't know what it is, turning it off helps fps but (imo) lessens immersion).

*Resolution -* : lowers the app's resolution, helps to increase fps but may look bad if too low.

*Resolution +* : increases the app's resolution, makes it look better but may decrease fps (in MR mode and the VR luxury home the res is already near max, so res increases only really apply to the VR nightclub as that runs at a lower res at default values).

*Reset Resolution* - sets the resolution to its default state. This is a value I thought appropriate but you can adjust it with the above options.

*Mic icon when speaking is On/Off* - you can toggle on or off if the mic icon will be shown when you're holding the right trigger down to speak.

*Sit / Stand* - makes the avatar sit down or stand up.

*Initiate conversation / Autonomous Actions On/Off* - if there's been a period of neither you or the avatar speaking, if this option is toggled On then the avatars will attempt to break the silence by making conversation with you or may decide to do something they want to like exercise etc or look at what you're looking at, if you toggle this Off then they won't do this. **ALSO this needs to be On for the avatar watching a movie with you** (how to do this is described in the 'Things To Do Before Starting TykeAI.pdf').

*Change Make Up* (not all avatars have this) - Changes their makeup.

*Change Eye Colour* - Changes their eye colour.

*Set/Delete Spatial Anchor* - gives them location knowledge, please see <https://youtu.be/aPtBxr5sx5s> and <https://youtu.be/9JHg0S6HwDk>

*Navmesh/Automatic Walking Mode* - If they are in Navmesh version (Suki or Mervin), if this is ON they may walk around by themselves

*Personality Type / Relationship Type (Suki and Mervin only)* - adjusts their personality and relationship to you. Please see :

[https://youtu.be/pmxiTQ\\_7YiY](https://youtu.be/pmxiTQ_7YiY)

*Height Change Method Toggle* - Scale them realistically or 1 to 1. Please see : <https://www.youtube.com/watch?v=SgZE0PEWL8I>

*Thinking animation is On/O* - Enables/disables an animation that shows above the avatars head when they are processing their replies.

*Avatar pickup comments On/O* - The avatar knows when you are moving them around by holding/grabbling them, if this toggle is On they may comment on it, if it's O they won't.

*Erase data !* - **(only available when chatting to Tanya)** this is for if there are any problems, resets the data associated with the app.

Erase Session ID - if you are having issues, try pressing this and restarting the app. It can cure some things, like if they start giving really long replies that take too long.

Brightness + or - : adjusts the brightness of the avatar

Shadow Intensity + or - : adjusts the shadow intensity

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- If you notice the avatars appear juddery and/or not smooth when they move etc, it may mean the FPS is low, please restart your Quest as this may fix it. When the avatar spawns in, if you find the height of it with respect to the floor isn't correct, it's because your boundary floor height
  - needs be corrected so exit the app and redraw your boundary, or just adjust the avatars height off the floor with buttons A and B. If you lose track of the avatar, the left VR controller trigger centers the avatar in front of you.
  - Remember, if you are maybe going for a walk outside with an avatar, you will not have home network connection so possibly won't have
  - internet connection (the app needs internet connection for the AI to work). However, you can setup your cell/mobile phone as a hotspot for your Quest's internet connection.

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Finally - it is important that when a new version of TykeAI becomes available that you do not un-install the .apk already on your Quest 3 before installing the new version. This is because un-installing will delete the app's folder and delete important information. So please, when a new version is available, just install the .apk over your existing installation, it's exactly the same process, you'll still only have TykeAI and TykeAI Expansion Pack 1 apps on your Quest.

Thanks for reading and have fun 👍