



TD Talk and AssistiveTouch

Training Cards



The TD Talk app lets you join in-person conversations.



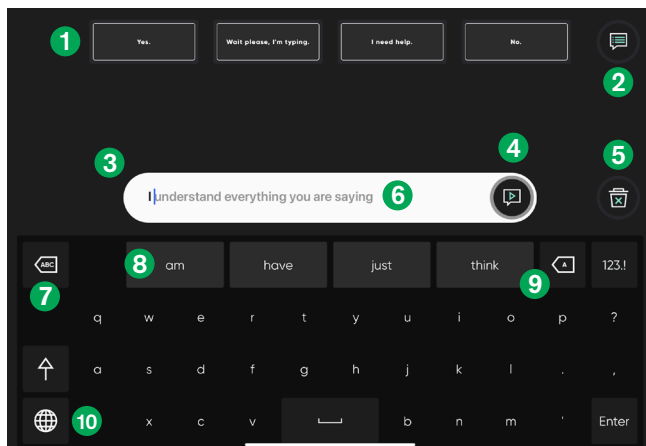
AssistiveTouch gives you access to other apps.

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TD Talk - Tour

TD Talk is designed for fast, face-to-face communication. Use this app when you are interacting with others.



1 Quick Messages

Pre-written messages that speak immediately when selected.

2 More Quick Messages

Open the Quick Messages page to speak or edit your Quick Messages.

3 Message Window

View and edit the text you would like to speak here.

4 Speak

Speak the text in the Message Window. You may also pause speech and resume speaking.

5 Clear

Clear all text in the Message Window.

6 Phrase Prediction

TD Talk learns from what you type and uses that information to predict phrases. Prediction is based on frequency and makes communication faster and more personal.

7 Delete Word

Delete the word to the left of the cursor.

8 Word Prediction

Automatically predicts words based on what you've typed so far.

9 Backspace

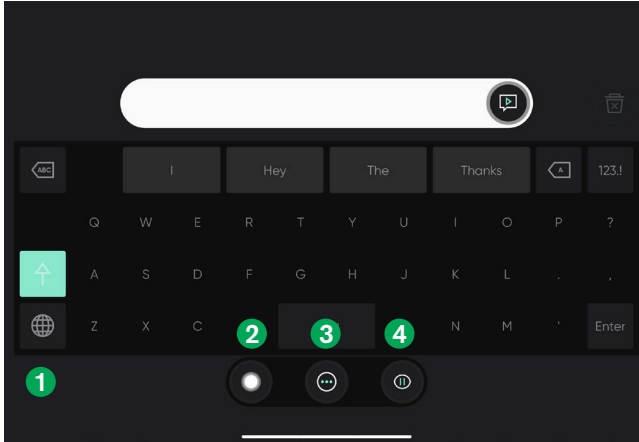
Delete the character to the left of the cursor.

10 Change Language

Switch between the languages you speak.



TD Talk - Tour (cont.)



1 Off-Screen Menu

Look below the eye tracker to reveal this menu containing Pause/Resume, More, and AssistiveTouch.

2 AssistiveTouch Toggle

Turn on AssistiveTouch. Use AssistiveTouch to access the Home Screen and all of your other apps.

3 More

Access the Dashboard and Settings.

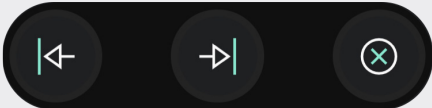
4 Pause/Resume Eye Gaze

Toggle button to temporarily pause and resume eye gaze.



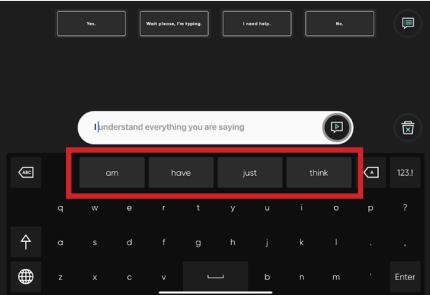
TD Talk - Communication Tips

These tips can help you use TD Talk successfully.

Tip	Try It
<p>Take regular breaks from eye tracking.</p> <p>Pause the eye tracker when you are not talking and resume when you are ready to talk.</p>	<ol style="list-style-type: none">1 Look below the eye tracker to open the Off-Screen Menu.2 Select Pause. Eye tracking is paused.3 Repeat the steps above to resume eye tracking.
<p>Edit messages directly in the Message Window.</p> <p>Correct, remove, or add words anywhere in the Message Window using the Edit Menu.</p> 	<ol style="list-style-type: none">1 Look at the location in the sentence where you would like to edit. An underline appears under the word and then the Edit Menu appears.2 When a word is highlighted, you can do the following:<ul style="list-style-type: none">Replace the word. Select one of the predicted words or type letters.Delete the word. Select backspace.Move the cursor. Use the right and left arrows in the Edit Menu to move the cursor, then type to insert text.3 Select X to close the Edit Menu.

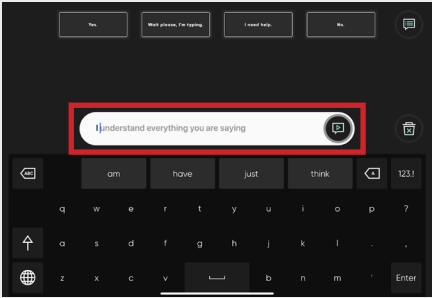


TD Talk - Communication Tips (cont.)

Tip	Try It
<p>Use punctuation and capital letters only when they enhance your message.</p> <p>Full stops and capital letters require time and effort to type. They don't make a difference in how your message is spoken unless the full stops are separating sentences in a paragraph.</p>	<ul style="list-style-type: none">▪ Use ? or ! to make your message sound like a question or exclamation.▪ Commas insert pauses in a sentence. Use commas for emphasis and pacing.▪ Capital letters add impact visually, but do not change how a word is spoken. TD Talk automatically capitalises the first letter in a sentence for you. Otherwise, don't bother capitalising words unless someone is reading your message.
<p>Take advantage of word prediction.</p> <p>Word prediction learns from what you type and can speed up your communication.</p> 	<ol style="list-style-type: none">1 When you start typing a word, glance at the word prediction buttons to see if the word you want is there.2 Repeat every 2-3 letters.3 If you find that you are unintentionally selecting while reading the predicted words, increase the Dwell Time for word prediction in <i>TD Talk > Settings > Keyboard</i>.

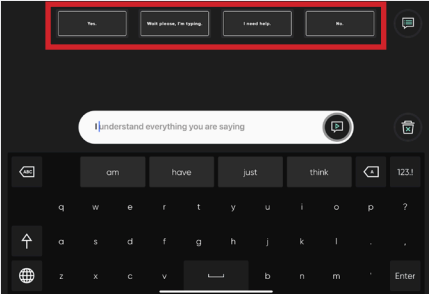


TD Talk - Communication Tips (cont.)

Tip	Try It
<p>Type like you talk. Spoken language differs from the more formal grammar of written language. Use partial sentences and casual grammar that reflect your speech.</p>	<ul style="list-style-type: none">▪ “Wanna go?”▪ “I could you know but no thanks.”▪ “Next time.”
<p>Use phrase prediction. Phrase prediction learns how you put words together and predicts what you want to say based on frequency of use. The more you speak using TD Talk, the better the phrase prediction becomes so you can say what you want faster and with less effort.</p> 	<ol style="list-style-type: none">1 Glance at the Message Window after each word or two to see if TD Talk has predicted a phrase.2 If the predicted phrase is what you want, fix your gaze on the last word of the prediction to accept it.3 If the predicted phrase is not what you want, continue typing.



TD Talk - Communication Tips (cont.)

Tip	Try It
<p>Quick Messages are often the fastest communication option.</p> <p>Use these editable messages to express immediate needs, keep up with conversation, and prepare what you want to say in advance for events such as doctor's appointments, presentations, and family gatherings.</p> 	<ol style="list-style-type: none">1 Select More Quick Messages, then Edit Quick Messages.2 Select the Quick Message you want to edit and type your message with the keyboard.3 Select Save and return to your main keyboard.
<p>Give yourself time to learn.</p> <p>Eye tracking is a skill. Communicating with TD Talk will become increasingly automatic with time and use.</p>	<ol style="list-style-type: none">1 Refine your eye tracking by tweaking settings as your skills develop over time.2 Use the practice ideas in the next section to focus on individual skills.



TD Talk - Practice Ideas

1 Practice pausing and restarting gaze.

Look below the eye tracker to open the Off-Screen Menu, then select the Pause Eye Gaze toggle button. Repeat the same steps to resume eye gaze. Try it a few times.

2 Practice typing like you talk.

The sentences below might be used in formal written communication. How would you say them in casual spoken conversation?

- Let's take some time today to talk about finances.
- I wish you all the best.
- I hope you have been well in the past months.

Think about phrases that you use often in conversation. The examples below might help you identify some. Type them into TD Talk.

Exclamation

No way! That's interesting. Is that so?!

Filler words or phrases

...like..., um..., I mean, you know, ...if that makes sense, ...and whatnot.

Regional words and phrases

I'm chuffed to bits. It's well hot today. I'll have the full monty. It's chocka in town today.

3 Experiment with punctuation and capitals.

Type the following sentences and listen to the difference with and without punctuation and capital letters. This activity will help you take note of when it is worth adding punctuation and capitalisation, and when you can skip it to save time.

	Option 1	Option 2
1	I will wear a shirt, jeans, and a jacket.	I will wear a shirt jeans and a jacket
2	Can I have it?	Can I have it
3	There is Jane over there.	There is jane, over there.
4	Wow! That is amazing!	Wow, that is amazing
5	I like it but he doesn't.	I like it, but, he doesn't.



TD Talk - Practice Ideas (cont.)

4 Try editing words in the Message Window.

Type a sentence containing a purposeful error (misspelling, adding a word, or leaving one out). Edit the error by gazing at the word in the Message Window.

5 Save time with word prediction.

Type "I need to go to the coffee shop tomorrow morning" without using word prediction. Then, type the sentence again using word prediction. Compare the time and effort required.

6 Try using phrase prediction.

Type one of the sentences below, then speak it out loud five times with TD Talk. This will add the sentence to your Phrase Set. Clear the Message Window, then start to type the same sentence again. You'll see the phrase predicted for you. Look at the last word in the predicted phrase to select it, then speak it.

- My name is [your name].
- My address is [your address].
- [Person's name] is my [relationship].
- I work (or worked) at [employer] as a [job title].
- I use this device to communicate and I understand everything you are saying.

7 Use and Edit Quick Messages.

Find Quick Messages that you could use in the following scenarios.

- When someone tells a joke.
- If someone asks if you liked a movie or TV show.
- When you need something right away.
- If someone starts talking while you are typing a message.
- When you want more information during an interaction.

Edit a Quick Message based on what you would say in the situations below.

- Share concerns or list your questions for your doctor or therapist.
- Tell a friend or family member what has been going on lately.
- Give instructions to your caregiver.



AssistiveTouch - Using Apps

When you are ready to venture outside of TD Talk, you'll use AssistiveTouch to access the other apps on your iPad. The AssistiveTouch eye gaze settings and behaviors are different from the ones in TD Talk, so you may need to make adjustments in the iPad OS Settings.

Tour

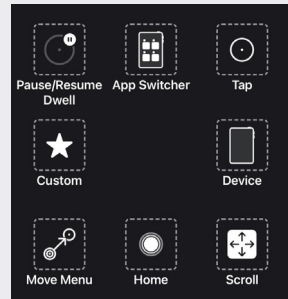


AssistiveTouch Button

Opens the AssistiveTouch Menu. The AssistiveTouch Button Menu floats on top of other screen content and can be repositioned as needed.

AssistiveTouch Menu

Eye gaze-accessible navigation tools that enable you to tap, swipe, adjust the volume, switch between apps, and more using your eyes.

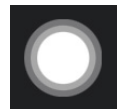


Note: Be sure to look at the Refining Eye Gaze cards if you are having any challenges using AssistiveTouch.

1 Switch to AssistiveTouch from TD Talk.

You'll use AssistiveTouch to navigate outside of TD Talk. It will automatically toggle off when you open TD Talk again.

- From the TD Talk keyboard, look below the eye tracker to open the Off-Screen Menu, then select the AssistiveTouch Toggle. The Pointer (grey circle) will appear on the screen and follow your gaze.
- Look at the AssistiveTouch Menu Button until the AssistiveTouch Menu opens.
- Look at Home in the AssistiveTouch Menu until the Home screen appears.



AssistiveTouch Toggle



AssistiveTouch Menu

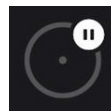


AssistiveTouch - Using Apps (cont.)

2 Take a break when needed.

Pause the eye tracker to read or rest, then resume eye gaze when you wish.

- Look at the **AssistiveTouch Menu Button** to open the AssistiveTouch Menu.
- Look at **Pause Dwell** to pause.
- Repeat the steps above to resume eye gaze.



Pause Dwell

3 Using the iPad with your eyes.

- Tap and Scroll are available in the AssistiveTouch Menu on the top level. Other touch gestures such as Hold and Drag, Long Press, and Double Tap are found under Custom in the AssistiveTouch Menu.
- To scroll, select the **AssistiveTouch Menu Button**, then **Scroll**, and the **scroll direction**. Then, position your Pointer in the area of the screen where you want to scroll.
- AssistiveTouch falls back to Tap after you perform a different action like pause or scroll. You can change the action it falls back to or remove it altogether in *iPad OS Settings > Accessibility > Touch > AssistiveTouch > Fallback Action*.

4 Move the AssistiveTouch Button.

You may need to move the AssistiveTouch Button around the screen to get it out of your way. Select **Move Menu** in the AssistiveTouch Menu, then hold your gaze on the screen where you would like the AssistiveTouch Menu Button to be.


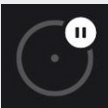


5 Choose appropriate apps.

Ask yourself these questions when considering apps for use with eye gaze.

- Do you have the skills (e.g., Tap, Scroll, Long Press) needed to use the app?
- If you do not have the required skills, is the app a good way for you to practice and build skills?
- Is the app of high interest? When you are motivated, you are more likely to work harder and persevere when trying to access difficult apps.
- Are there settings in iPad OS or TD CoPilot that can help make the app more accessible with eye gaze? See the Refining Eye Gaze cards for more information.
- Can you configure settings within the app to accommodate your current abilities? This might include changing from portrait to landscape, modifying response time or time out settings in games, replacing complex tasks (select and drag) with more simple ones (select), or displaying fewer choices on the screen.





AssistiveTouch - Practice Ideas

Practice Idea	Try It
<p>Turn on AssistiveTouch from TD Talk.</p>  <p>Practice navigating between TD Talk and the Home screen using AssistiveTouch.</p>	<ol style="list-style-type: none">1 In TD Talk, look below the eye tracker to open the Off-Screen menu.2 Select AssistiveTouch.3 Select the AssistiveTouch Menu Button, then select Home.
<p>Take a break using Pause/Resume Dwell.</p>  <p>Temporarily turn off eye gaze dwell selection so you can read, watch a video, or just relax.</p>	<ol style="list-style-type: none">1 Select the AssistiveTouch Menu button, then select Pause Dwell.2 Look around the screen and notice that dwell selection is disabled.3 Select the AssistiveTouch Menu button, then select Resume Dwell.
<p>Scroll with your eyes.</p>  <p>You can use your eyes to scroll web pages, menus, lists, apps, and more. Follow the steps shown on the right to try scrolling in the iPad OS Settings app.</p>	<ol style="list-style-type: none">1 Select iPad OS Settings.2 Select the AssistiveTouch Menu Button, then select Scroll, and then Scroll Down.3 Select in the iPad OS Settings window to scroll down through the settings. <p> Note: AssistiveTouch falls back to tap after you use another action, such as scroll. If you want to scroll again, repeat steps 2 and 3 above.</p>



AssistiveTouch - Practice Ideas (cont.)

Practice Idea	Try It
<p>Move the AssistiveTouch Menu Button.</p>  <p>Sometimes the AssistiveTouch Menu Button will be in the way. You can reposition the AssistiveTouch Menu Button any time!</p>	<ol style="list-style-type: none">1 Select the AssistiveTouch Menu Button, then select Move Menu.2 Look at the location on the screen where you would like to position the AssistiveTouch Menu Button.3 Hold your gaze for the set dwell time to drop the AssistiveTouch Menu Button at that location.
<p>Try the App Switcher.</p>  <p>The fastest way to navigate between apps running on your TD Pilot is to use the App Switcher.</p>	<ol style="list-style-type: none">1 Select the AssistiveTouch Menu Button, then select App Switcher.2 You'll see all of the apps currently running on your TD Pilot. Select an app to go to it. <p>i Note: If you don't see the app that you are looking for in the App Switcher, then that app isn't currently running. Go to the Home screen and select the app icon to launch it.</p>



Mount and Position

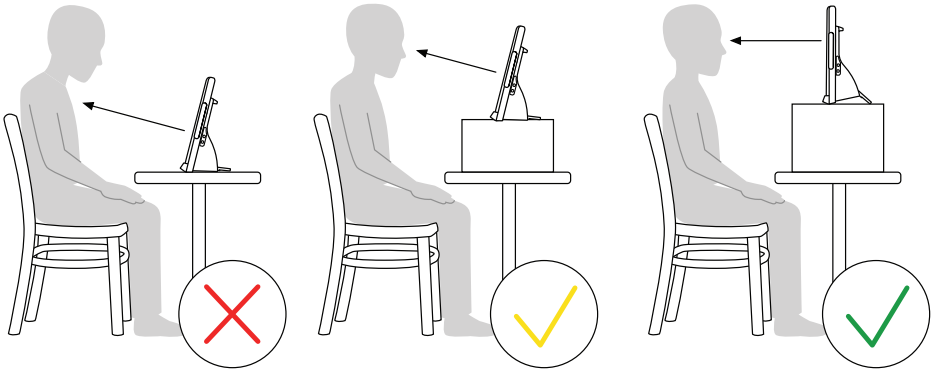
Always confirm that a good foundation is in place.

Before doing any additional troubleshooting, start with repositioning and recalibrating each and every time. Most eye gaze issues are resolved or improved during these two crucial steps.

- Glasses on and clean, if needed.
- Position the device to accommodate the person in their comfortable position. Use Track Status to check for correct positioning.



Note: To open Track Status, launch TD CoPilot from the Home Screen or ask a partner to push the Track Status Button to the left of Partner Window on the back of the TD Pilot device.



- The TD Pilot should be positioned at eye level. Most users, when seated at a table or desk, will need to have the TD Pilot positioned higher than the table surface.
- Recalibrate to accommodate the changes that occur throughout the day in environmental lighting, body position, fatigue, and eye response (possibly due to medications or dryness).



Refining Eye Gaze

Look at the following issues. Try one or more of the solutions. Sometimes, it is a combination that will help.

Issue	Solutions
Eye tracker does not detect eyes.	<ul style="list-style-type: none">▪ Be sure TD Pilot is charged and powered on.▪ Make sure AssistiveTouch is enabled (follow setup procedure in the TD Pilot Getting Started Guide).▪ Verify that the cable connecting the TD Pilot device to the iPad is securely plugged in.▪ Check positioning of device and person.▪ Review information on glare from glasses.
Accuracy is not good.	<ul style="list-style-type: none">▪ Check positioning of device and person, then recalibrate.▪ Review solutions for problems noted below. More than one may apply.
Accuracy gets worse over time.	<ul style="list-style-type: none">▪ Recalibrate. Remember to check positioning before doing so.▪ Look away or close eyes for a moment to refocus.▪ Decrease brightness of display: <i>iPad OS Settings > Display & Brightness</i>▪ Increase the text size to make text-based targets larger: <i>iPad OS Settings > Display & Brightness > Text Size</i>▪ See “Experiencing eye strain or dryness” below.
Glare from glasses seems to be interfering.	<ul style="list-style-type: none">▪ Clean glasses.▪ Limit or eliminate light coming from behind the person using the device.▪ If the user wears multifocal lenses, try repositioning the device to take advantage of the portion of the lens meant for computer use.



Refining Eye Gaze (cont.)

Issue	Solutions
Pointer response lags.	<ul style="list-style-type: none"> ▪ Increase Responsiveness setting: <i>TD CoPilot > Settings > AssistiveTouch</i>
Difficulty holding dwell for sufficient time.	<ul style="list-style-type: none"> ▪ Shorten dwell time: <i>TD Talk > Settings > Keyboard</i> <i>TD Talk > Settings > Activation</i> <i>iPad OS Settings > Accessibility > Touch > AssistiveTouch > Dwell Control Seconds</i> ▪ Increase Movement Tolerance: <i>iPad OS Settings > Accessibility > Touch > AssistiveTouch</i> ▪ Decrease Responsiveness setting: <i>TD CoPilot > Settings > AssistiveTouch</i>
Selections happen too fast or accidentally.	<ul style="list-style-type: none"> ▪ Lengthen dwell time in TD Talk and/or AssistiveTouch: <i>TD Talk > Settings > Keyboard</i> <i>TD Talk > Settings > Activation</i> <i>iPad OS Settings > Accessibility > Touch > AssistiveTouch > Dwell Control Seconds</i> ▪ Decrease Movement Tolerance: <i>iPad OS Settings > Accessibility > Touch > AssistiveTouch</i>
Pointer is jumpy or drifts.	<ul style="list-style-type: none"> ▪ Decrease Responsiveness setting: <i>TD CoPilot > Settings > AssistiveTouch</i> ▪ Remove color from the Pointer: <i>iPad OS Settings > Accessibility > Pointer Control > Color</i> ▪ Adjust the size of the Pointer: <i>iPad OS Settings > Accessibility > Pointer Control</i>
Cannot see Pointer	<ul style="list-style-type: none"> ▪ Modify the size and color of the Pointer to make it stand out: <i>iPad OS Settings > Accessibility > Pointer Control</i>



Refining Eye Gaze (cont.)

Issue	Solutions
AssistiveTouch Menu button interferes or distracts.	<ul style="list-style-type: none">▪ Move the AssistiveTouch Menu button on the screen.▪ Decrease Idle Opacity of the AssistiveTouch Menu button: <i>iPad OS Settings > Accessibility > Touch > AssistiveTouch</i>
Feeling of motion sickness.	<ul style="list-style-type: none">▪ Reduce Brightness of screen: <i>iPad OS Settings > Display & Brightness</i>▪ Remove color from Pointer: <i>iPad OS Settings > Accessibility > Pointer Control</i>▪ Enable Reduce Motion setting: <i>iPad OS Settings > Accessibility > Motion</i>▪ Enable Prefer Cross-Fade Transitions setting: <i>iPad OS Settings > Accessibility > Motion</i>
Experiencing eye strain or dryness.	<ul style="list-style-type: none">▪ Take breaks.▪ Reduce Brightness: <i>iPad OS Settings > Display & Brightness</i>▪ Increase text size: <i>iPad OS Settings > Display & Brightness > Text Size</i>▪ Consult doctor.
Eyes do not move together (strabismus).	<ul style="list-style-type: none">▪ Identify the stronger eye and calibrate with that eye only.▪ Consult doctor.
Involuntary eye movements (nystagmus).	<ul style="list-style-type: none">▪ Reposition the device to see if there is an area in the visual field in which nystagmoid movement decreases.



FAQs

Can I use AssistiveTouch in TD Talk?

The short answer is that you can, but you don't need to. Buttons in TD Talk are like magnets. When your gaze moves near a button in TD Talk, it draws the pointer to the button. This helps you to be more precise and reduces your effort. Turn on AssistiveTouch when you want to leave TD Talk to use other apps.

I'm struggling with eye tracking. What can I do?

There are several options to help you improve eye tracking.

- Review the information on the Refining Eye Gaze cards. Try repositioning or recalibrating first before you start changing settings.
- See the resources on the back of this card.
- Contact the therapist or organization that helped you obtain your device.

How does TD Talk's Phrase Prediction work?

TD Talk's Phrase Prediction is based on frequency. Phrases that you have spoken several times before are predicted when you start typing the beginning of the phrase. It tends to predict partial sentences (e.g., I am going, What do you) rather than full sentences (e.g., I am going to the store., What do you like in your coffee?) because they are used in a broader variety of situations and keep you from having to edit as often.



Additional Resources

Scan the QR codes or use the links.



Tobii Dynavox

uk.tobiidynavox.com



Apple

apple.com/accessibility



myTobiiDynavox

mytobiidynavox.com



Tobii Dynavox Learning Hub (English only)

learn.tobiidynavox.com



TD Community

qrco.de/TDFB



TD Talk Support Page

qrco.de/TDTalkHelpUK



TD Pilot User's Manual

qrco.de/PilotDocs



Documentation

TD CoPilot > Settings > Help



UK Technical Support

0114 481 0011

support.uk@tobiidynavox.com

