

# CoPilot plugin for ToLiss A321

## (how to Install and Use)

### features:

- + animated 3d CoPilot model
- + recognize and execute voice/menu/widget commands
- + speak
- + read checklists
- + operate with Events (based on flight parameters and situation)
- + execute SOP (Normal Procedures, Limited)



# LICENSE AGREEMENT

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6. Serial key may be activated with one aircraft installed for only one Computer ID. After first activation your serial key may be used with the same aircraft at the same computer (detected as Computer ID).

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## STEP-BY-STEP

1. Setup speech/recognition engine at your computer (read below)
2. Copy CoPilot plugin files to your compatible aircraft "/plugins/" folder.
3. Load aircraft and setup plugin.
4. Check what you see copilot in cockpit, it animated, speak and recognize your voice command.
5. Use.

# SETUP SPEECH RECOGNITION (WINDOWS 10)

Please be sure what US English language pack is already installed and English selected as Windows display language

The image shows the Windows 10 Settings application. In the left-hand navigation pane, the 'Settings' title is circled in pink. Below it, the 'Home' icon is visible. A search bar labeled 'Find a setting' is present. Under the 'Time & Language' section, which is underlined in pink, the 'Speech' option is highlighted with a pink arrow. Other options in this section include 'Date & time' and 'Region & language'. The main content area on the right is titled 'Speech'. It contains the following settings:

- Speech language:** Choose the language you speak with your device. The dropdown menu is set to 'English (United States)'. A pink arrow points from the 'Speech' option in the sidebar to this dropdown.
- Recognize non-native accents for this language
- Text-to-speech:** Change the default voice for apps.
  - Voice:** The dropdown menu is set to 'Microsoft David'. A pink arrow points from the 'Speech' option in the sidebar to this dropdown.
  - Speed:** A slider control is shown, currently positioned at approximately 75% of the range.
  - Listen to voice sample:** A button labeled 'Preview voice' is located below the speed slider. A pink arrow points from the 'Speech' option in the sidebar to this button.
- Microphone:** Set up your mic for speech recognition. A button labeled 'Get started' is located below this section. A pink arrow points from the 'Speech' option in the sidebar to this button.



Next turn recognition On (You may skip this step if you have Non-English interface at your Windows)

The image shows a Windows Settings window with the 'Speech' settings page open. On the left, the 'Settings' title bar is circled in pink. A pink arrow points from the 'Settings' title bar down to the 'Interaction' category, and another pink arrow points from 'Interaction' down to the 'Speech' option. A third pink arrow points from the 'Speech' option to the 'Turn on Speech Recognition' toggle switch, which is currently turned 'On'.

**Settings**

Home

Find a setting

**Ease of Access**

Vision

- Display
- Cursor & pointer size
- Magnifier
- Color filters
- High contrast
- Narrator

Hearing

- Audio
- Closed captions

**Interaction**

- Speech**
- Keyboard
- Mouse

## Speech

Make your device easier to use if you have limited reach or strength.

### Talk instead of type

Use dictation to make text entry easier (US English only).

Press the Windows logo key **Windows** + H to start dictation. On the touch keyboard, select the microphone **Microphone** button.

[Get more info about dictation](#)

### Dictate text and control your device using only your voice

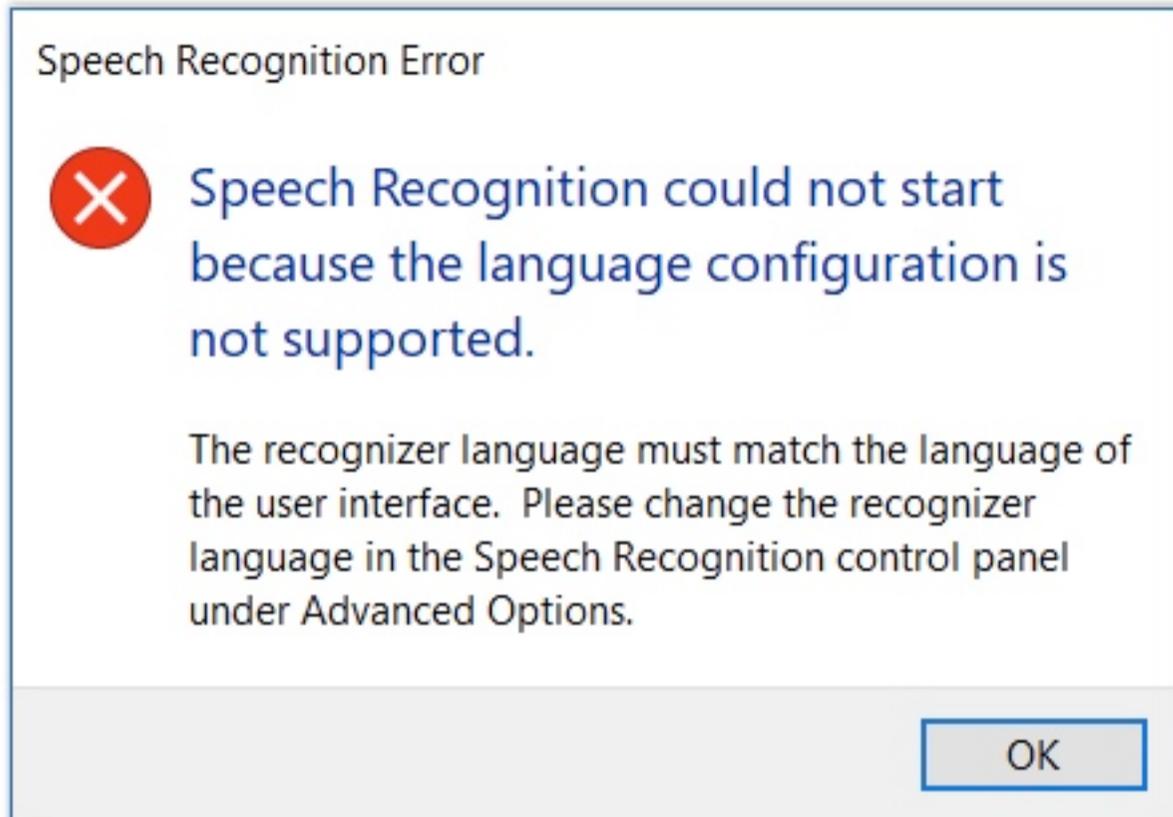
Turn on Speech Recognition

On

Speech Recognition is only available for the following languages: English (United States, United Kingdom, Canada, India, and Australia), French, German, Japanese, Mandarin (Chinese Simplified and Chinese Traditional) and Spanish.

Press the Windows logo key **Windows** + Ctrl + S to toggle Speech Recognition on or off.

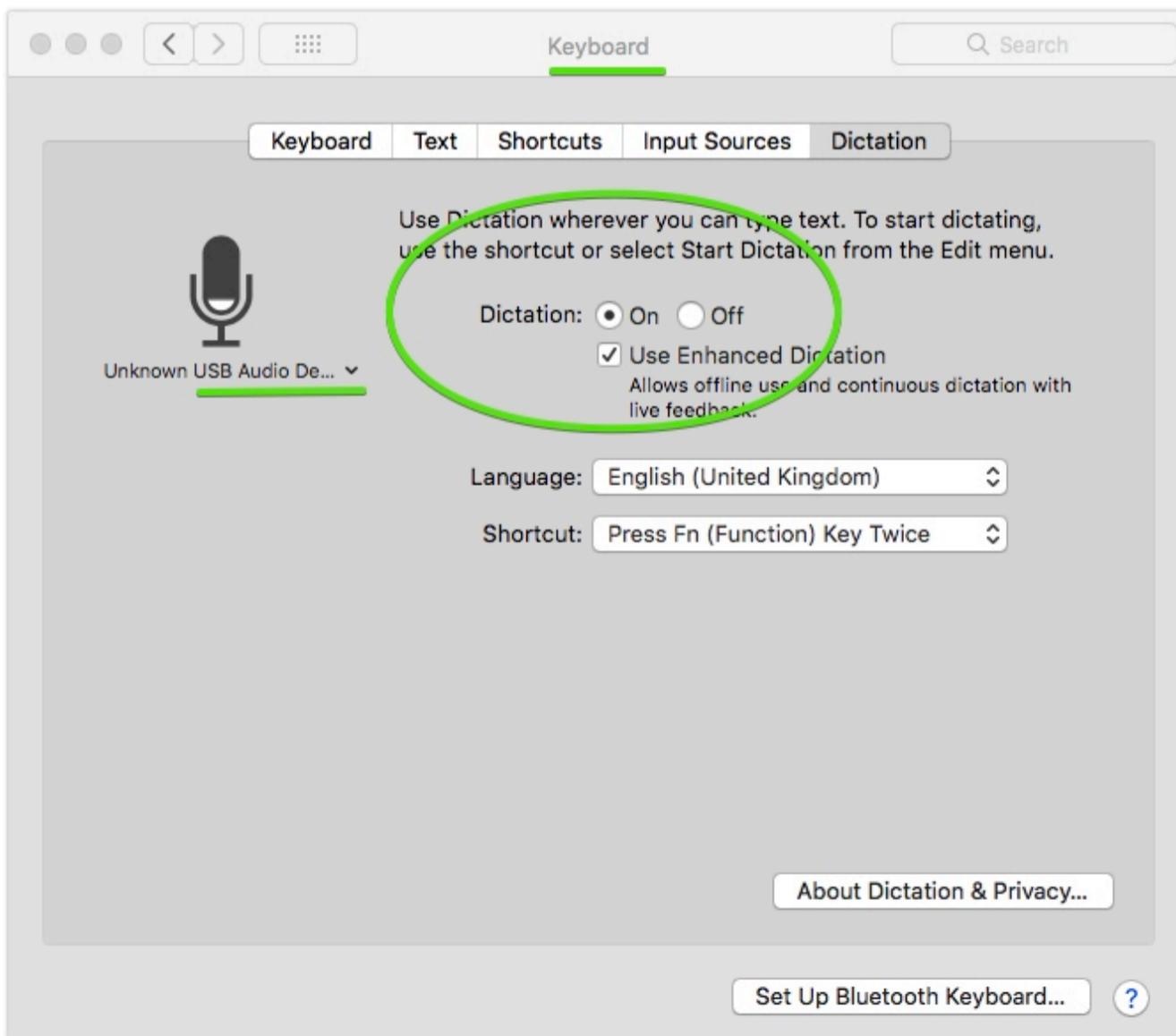
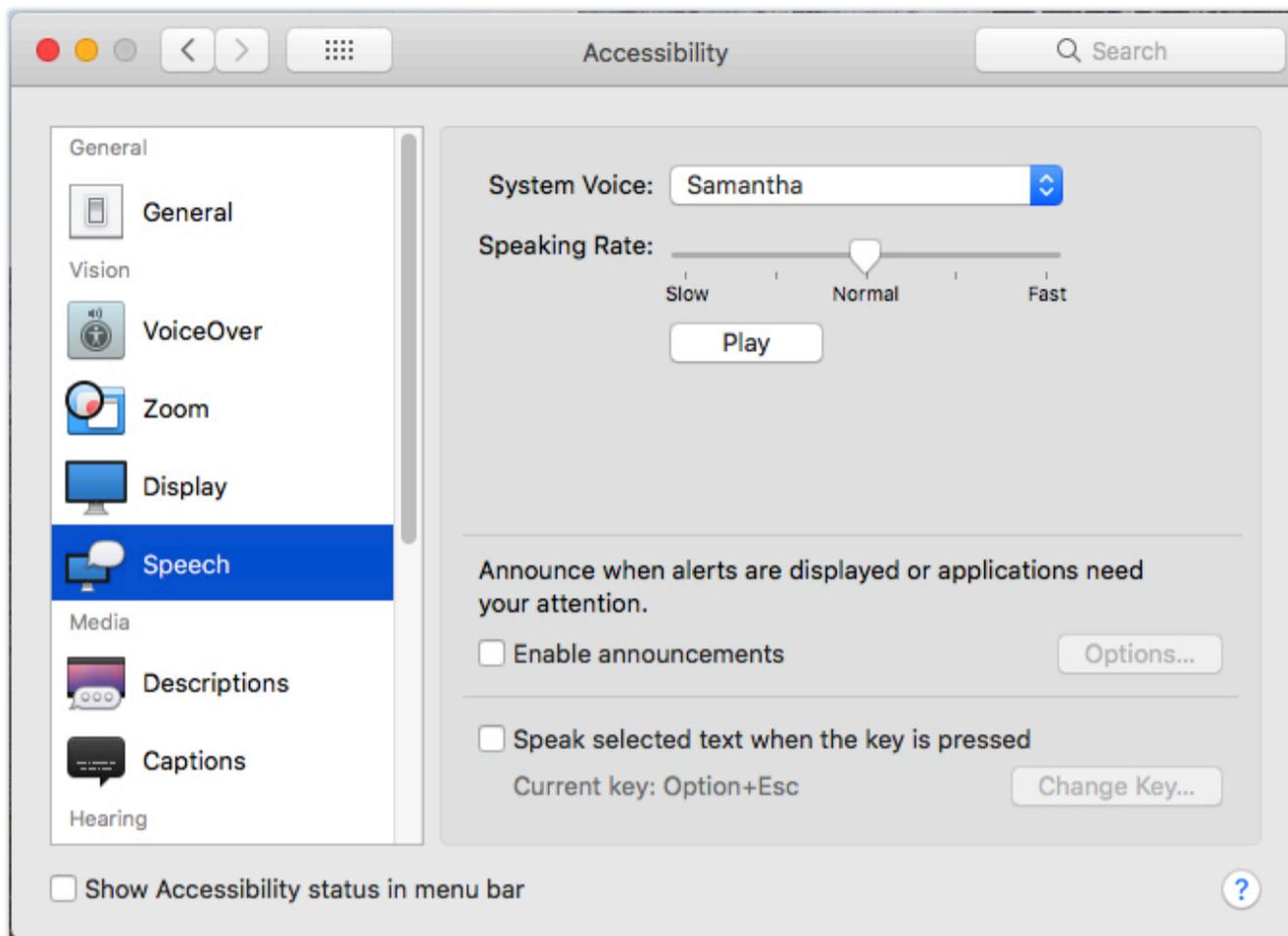
If you will get this error, you need setup English as user interface language (Windows display language) and English as your recognition language (language you speak with your device) and reload computer.



**Please use this basic manual if need:**

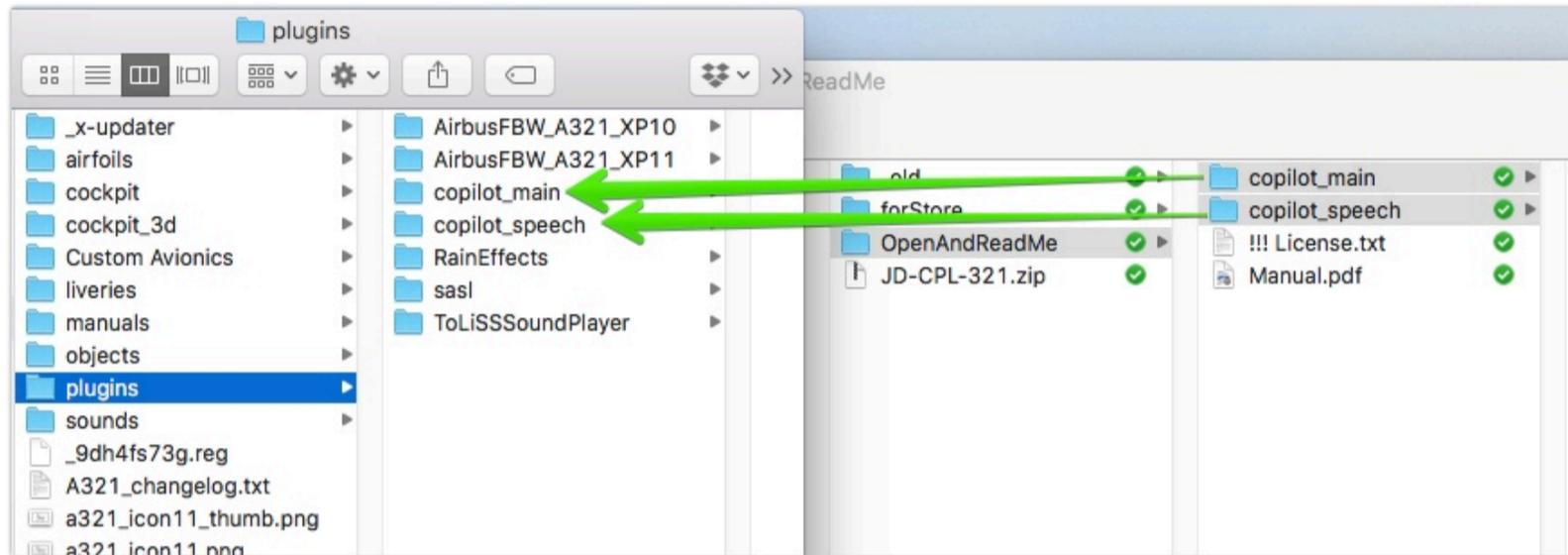
<https://www.windowcentral.com/how-set-speech-recognition-windows-10>

# SETUP SPEECH / RECOGNITION (MAC OS)



# INSTALL PLUGIN

1. Find your aircraft ToLiss A321 plugins folder inside ../X-Plane\_12/Aircraft/ToLiss\_A321/plugins/ or path like this.
2. UnZip copilot distributive and Put "copilot\_main" and "copilot\_speech" folders from your ZIP pack to "../ToLiss\_A321/plugins/" folder



3. Run X-Plane and load ToLiss\_A321. Select "Setup" to complete installation. ACF file will be update. Backup copy of original file will create "a321.acf.backup" (optional)



4. Reload aircraft

# HARDWARE SETUP

For voice input - **You need** to have microphone or headset to use this plugin. Speech recognition should be setup and checked on your OS before copilot plugin installation.

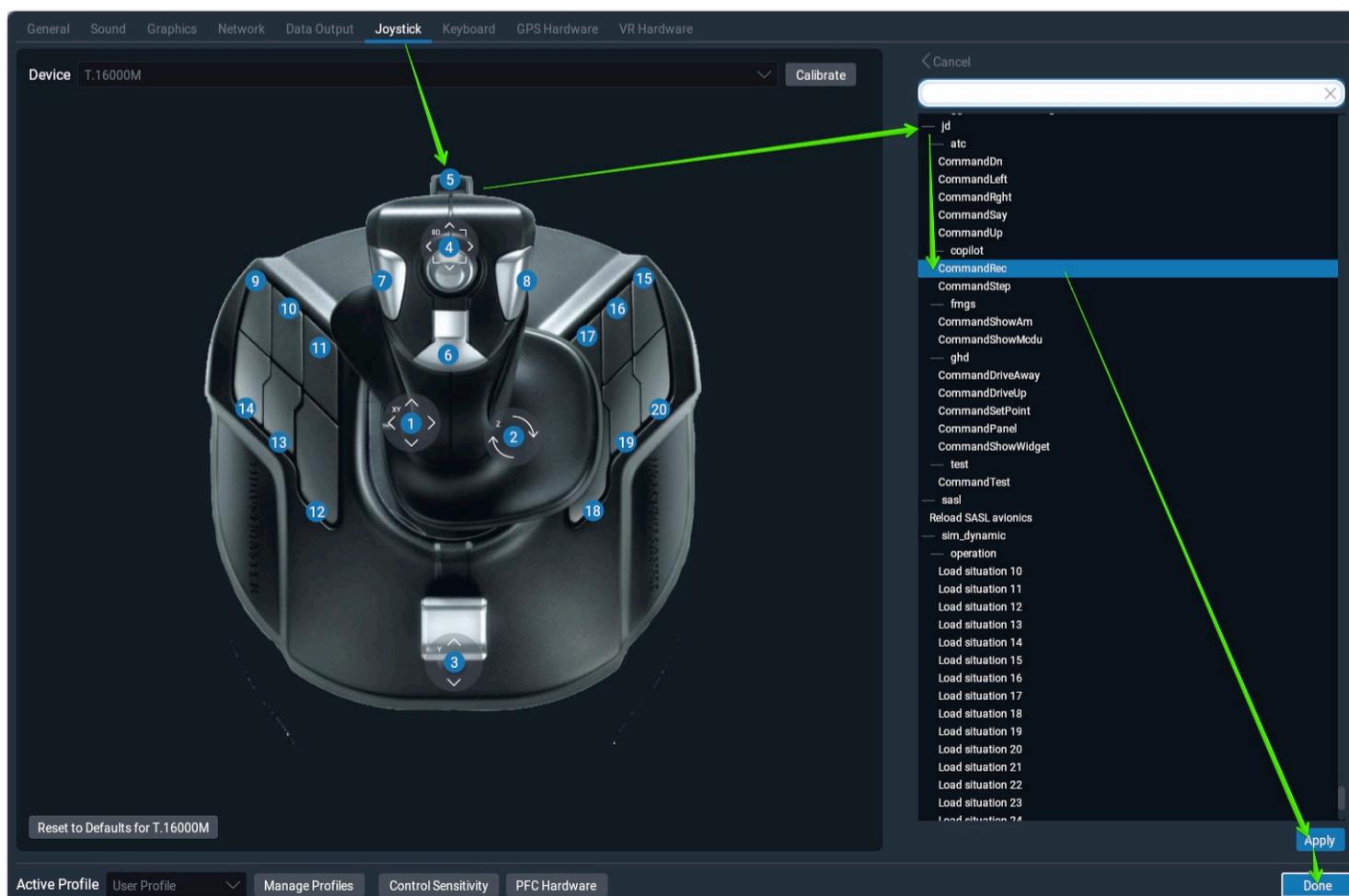
For mouse click input - **You need** setup your Windows/MACOS speech settings only and skip voice recognition setup.

# HOW TO USE

You may speak with CoPilot via voice or select commands via Menu or select command via widget. When you run checklist - expected answers (clickable) will be indicated in yellow.

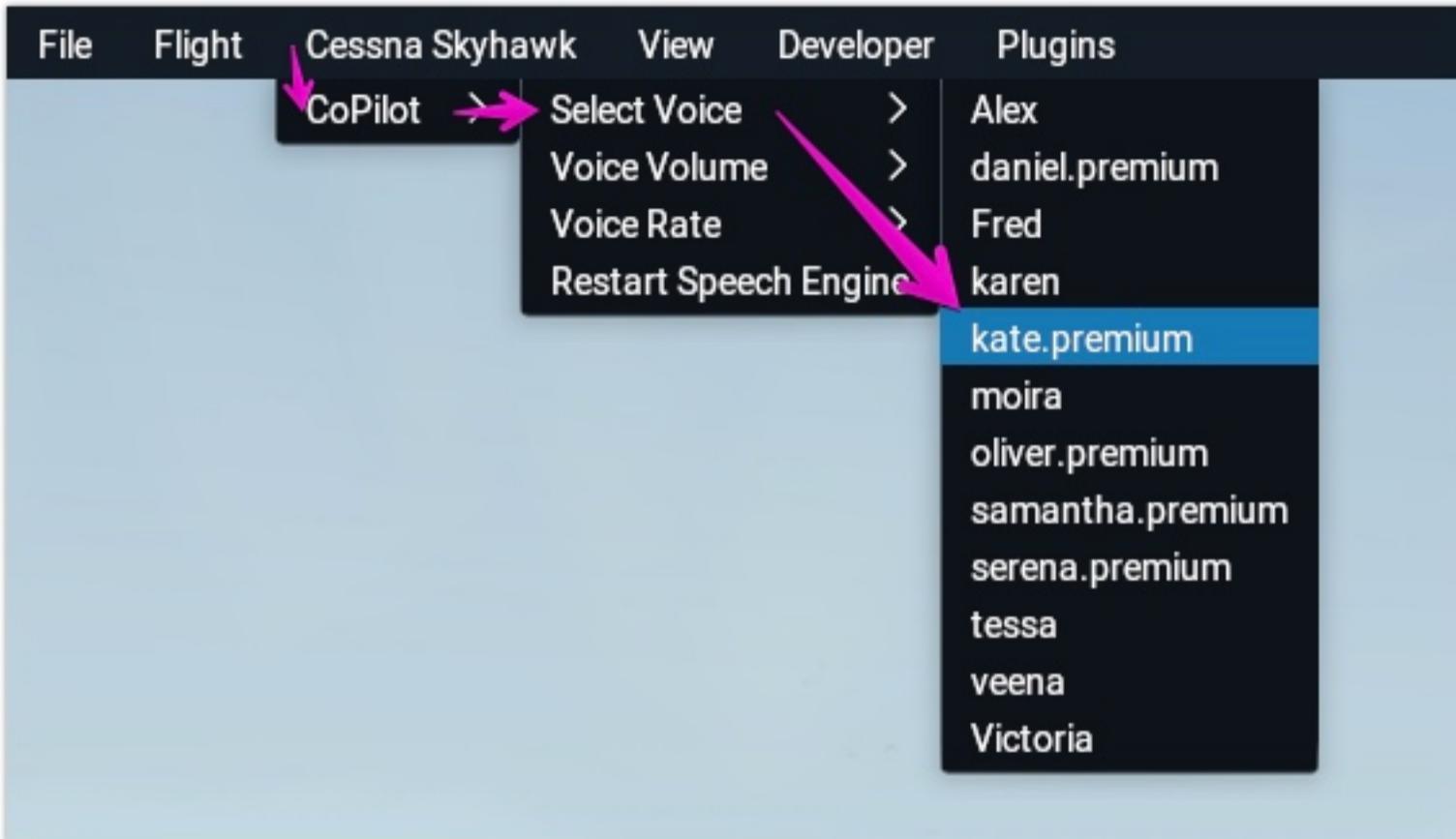


If you prefer voice control, you need setup special joystick (sure, keyboard may be used too) button to jd/CommandRec.



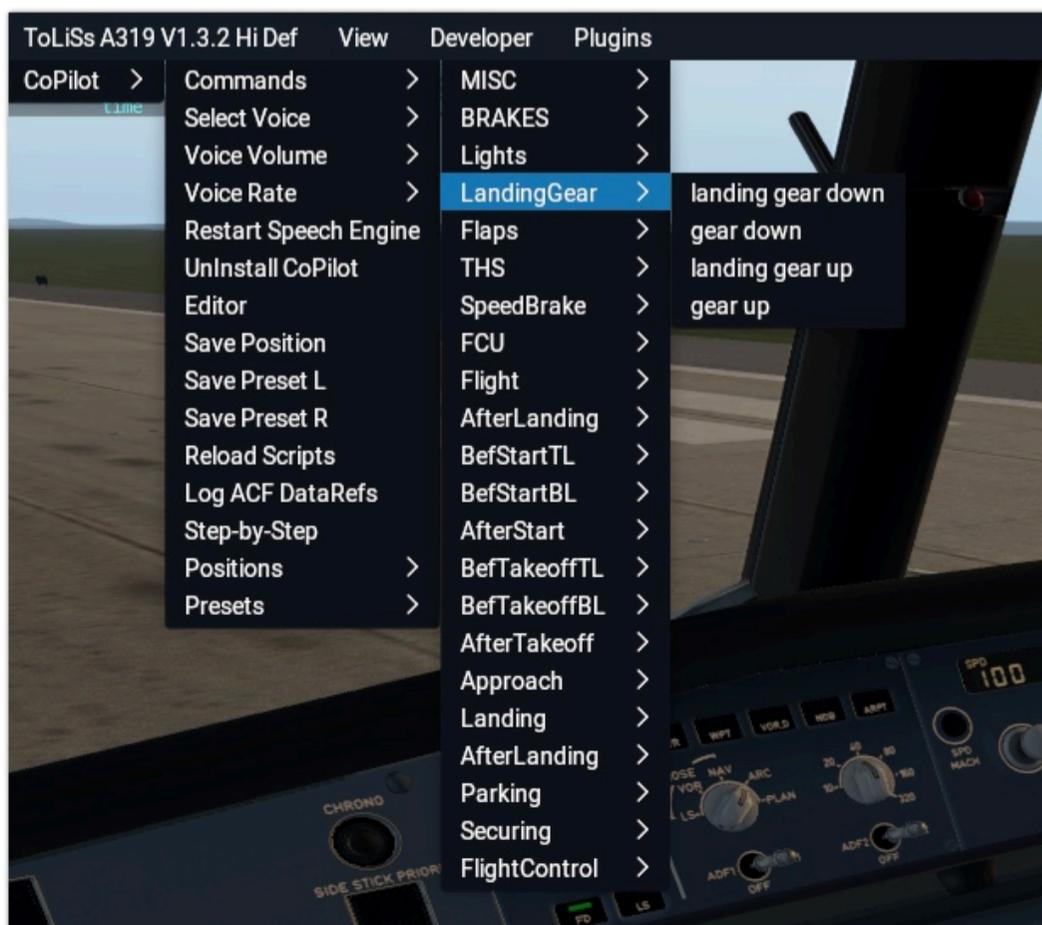
You may look at CoPilot, hold this joystick button and say something like "Hello!" Typical pattern - press the button, say the text, release the button.

You can change speech parameters using Menu, like this:



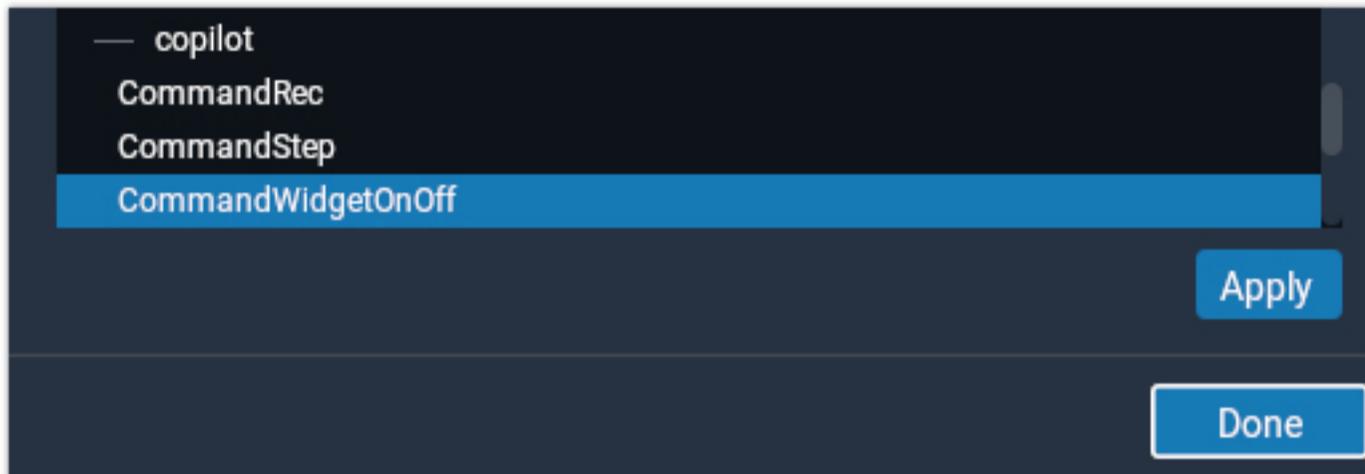
## HOW TO KNOW WHAT COMMANDS MAY BE USED

1. Use Menu -> CoPilot -> Commands to see full list of commands what may be activated by voice, by this menu or by widget menu.



## WIDGET

Widget may show you a shortlist of commands for actual flight phase. Sure, any command may be used in any time by menu or by voice input. You may show and hide widget using this command (assign it to your keyboard or joystick):



You may change widget position using "MOVABLE" zone:



## HOW TO UNINSTALL PLUGIN

1. Use Menu -> Uninstall CoPilot. Reload aircraft. CoPilot not work more.
2. Delete "copilot\_main" and "copilot\_speech" folders from "../ToLiss\_A321/plugins/" folder

### PRODUCT WEBPAGE:

<http://www.jardesign.org>

### SUPPORT

<http://www.support.jardesign.org>

# NORMAL CHECKLIST (EXAMPLE)

<b>BEFORE START</b>
COCKPIT PREP..... COMPLETED (BOTH)
GEAR PINS and COVERS..... REMOVED
SIGNS..... ON/AUTO
ADIRS..... NAV
FUEL QUANTITY..... _____ KG.LB
TO DATA..... SET
BARO REF..... _____ SET (BOTH)
WINDOWS/DOORS..... CLOSED (BOTH)
BEACON..... ON
THR LEVERS..... IDLE
PARKING BRAKE..... AS RQRD

<b>AFTER START</b>
ANTI ICE..... AS RQRD
ECAM STATUS..... CHECKED
PITCH TRIM..... _____ SET
RUDDER TRIM..... ZERO

<b>BEFORE TAKEOFF</b>
FLIGHT CONTROLS..... CHECKED (BOTH)
FLT INST..... CHECKED (BOTH)
BRIEFING..... CONFIRMED
FLAP SETTING..... CONF _____ (BOTH)
V1. VR. V2/FLX TEMP..... _____ (BOTH)
ATC..... SET
ECAM MEMO..... TO NO BLUE
<ul style="list-style-type: none"> <li>- AUTO BRK MAX</li> <li>- SIGNS ON</li> <li>- CABIN READY (  )</li> <li>- SPLRS ARM</li> <li>- FLAPS TO</li> <li>- TO CONFIG NORM</li> </ul>

TAKEOFF RWY..... _____ CONFIRM (BOTH)
CABIN CREW..... ADVISED
TCAS..... TA OR TA/RA
ENG MODE SEL..... AS RQRD
PACKS..... AS RQRD

<b>AFTER TAKEOFF / CLIMB</b>
LDG GEAR..... UP
FLAPS..... RETRACTED
PACKS..... ON
BARO REF..... _____ SET (BOTH)

<b>APPROACH</b>
BRIEFING..... CONFIRMED
ECAM STATUS..... CHECKED
SEAT BELTS..... ON
BARO REF..... _____ SET (BOTH)
MINIMUM..... _____ SET (BOTH)
ENG MODE SEL..... AS RQRD

<b>LANDING</b>
CABIN CREW..... ADVISED
A/THR..... SPEED/OFF
AUTOBRAKE..... AS RQRD
ECAM MEMO..... LDG NO BLUE
<ul style="list-style-type: none"> <li>- LDG GEAR DN</li> <li>- SIGNS ON</li> <li>- CABIN READY (  )</li> <li>- SPLRS ARM</li> <li>- FLAPS SET</li> </ul>

<b>AFTER LANDING</b>
FLAPS..... RETRACTED
SPOILERS..... DISARMED
APU..... START
RADAR..... OFF/STBY

<b>PARKING</b>
APU BLEED..... ON
ENGINES..... OFF
SEAT BELTS..... OFF
EXT LT..... AS RQRD
FUEL PUMPS..... OFF
PARK BRK and CHOCKS..... AS RQRD
Consider HEAVY RAIN

<b>SECURING THE AIRCRAFT</b>
ADIRS..... OFF
OXYGEN..... OFF
APU BLEED..... OFF
EMER EXIT LT..... OFF
SIGNS..... OFF
APU AND BAT..... OFF
Consider COLD WEATHER