Aerofly fs4 to Say Intentions application instructions

This application provides a way to use Say Intentions ATC application from within Aerofly fs 4 (probably will work with fs 2 as well). Because Aerofly works so will in VR this application was specifically designed for VR. However, it can be modified to run on a tablet via your local network as well.

Important

This is only for Windows 10 or 11. Also, the installation and startup is pretty simple but does require some understanding of extracting files, and entering commands in the command prompt.

Airport and Radio Information

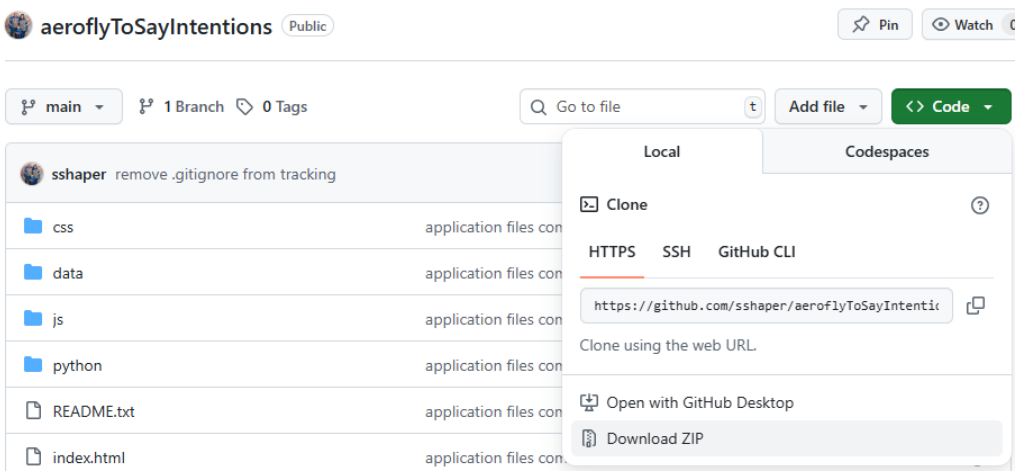
This application has all the airports and radio frequencies included with Aerofly. There are thousands of them. I used openly available files to create them so I am not ensuring the accuracy. The good news is that updates are very easy to do and are explained in the video (see video link in the Using the Application part of this document).

Installation and setup

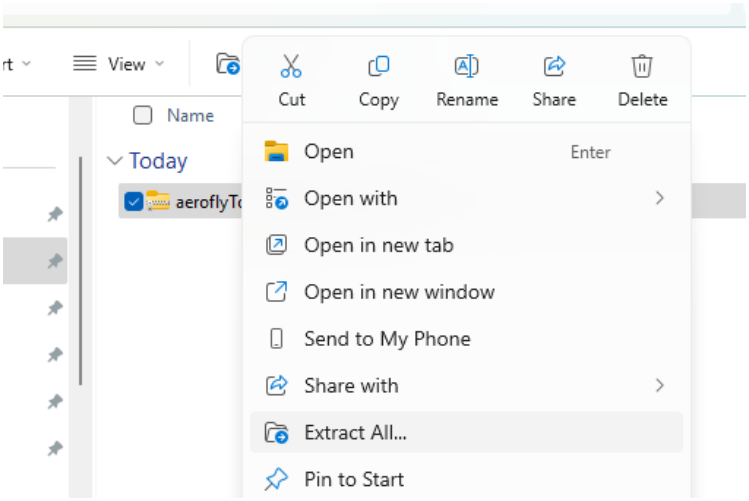
To get started download the application from my GitHub account onto the same computer where Aerofly and Say Intentions is installed.

https://github.com/sshaper/aeroflyToSayIntentions

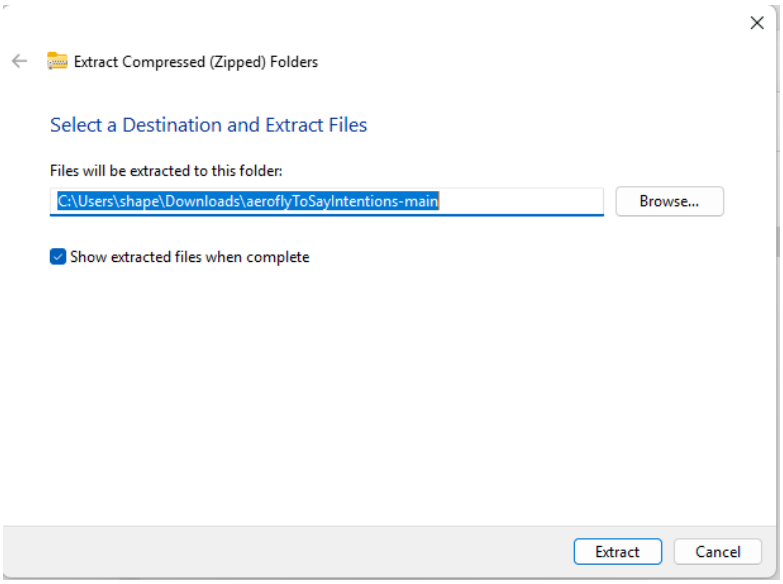
Click the code button to the right and then download zip



In your download directory right click on the file and click “Extract All”



For now just extract the folder to your downloads directory.



When extracted you may get a folder named “aeroflyToSayIntentions-main” inside another folder of the same name. You don’t need them both so move the inner folder to location where you want the application to be. It really doesn’t matter where you put it.

Open Aerofly and go to the Miscellaneous settings page and set the Broadcast IP address to 255.255.255.255 and the Broadcast IP port to 49002

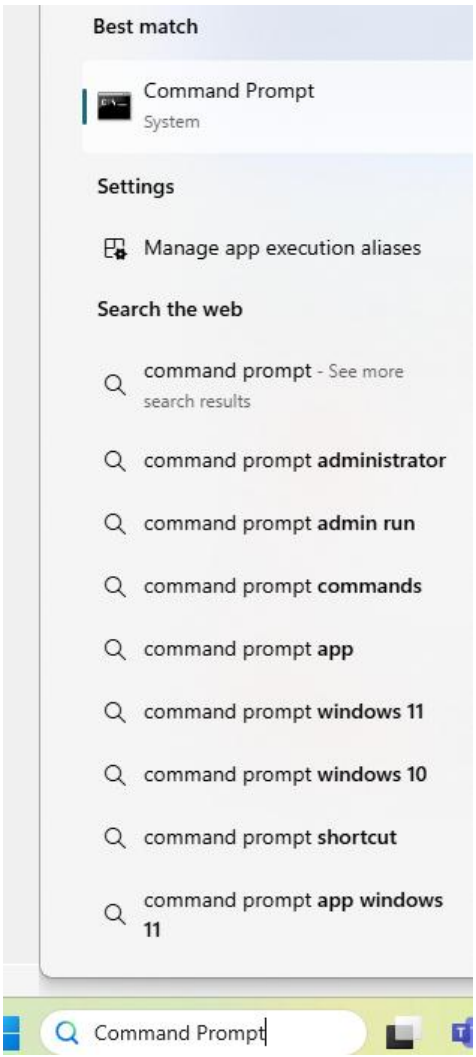
Installing Python and Imports

IMPORTANT: This application was written in Python and you must have Python installed on your computer to run this application. You can go to https://www.python.org/ and download the latest Python version. This application was written on version 3.13.5. You also must have the following imports installed.

- asyncio
- websockets
- socket
- json
- time
- os

All the above should come with Python 3.13.5 or above but you will probably need to install websockets.

To install websockets you use pip. Open your Window Command Prompt by entering "Command Prompt" into the search box and clicking on the Command Prompt icon.



In the command prompt dialog box enter

pip install websockets

It will install websockets and you should be all set.

Running the application

Running the application is very easy open a Command Prompt dialog box and write cd then the path to where your application files are at.

For example, here is mine. My application folder is found in my Drobox folder to go to it I write cd Dropbox\aeroflyToSayIntentions. NOTE: cd stands for change directory also note the back slashes.

```
C:\Users\sshaper>cd Dropbox\aeroflyToSayIntentions
```

Once there write the following command to open the websocket.

python python\udp_to_websocket.py and press enter

and you will get the following. When you see it you can just minimize the command prompt don't close it, it must stay running.

```
C:\Users\sshaper\Dropbox\aeroflyToSayIntentions>python python\udp_to_websocket.py
UDP server listening on port 49002
WebSocket server will run on port 8765
  WebSocket server running on ws://localhost:8765
  Listening on UDP 49002 and streaming to WebSocket
  SimAPI file will be written to: C:\Users\sshaper\AppData\Local\SayIntentionsAI\simAPI_input.json
```

Open another Command Prompt window, navigate to where your application files are located and enter python -m http.server 8080 and press enter

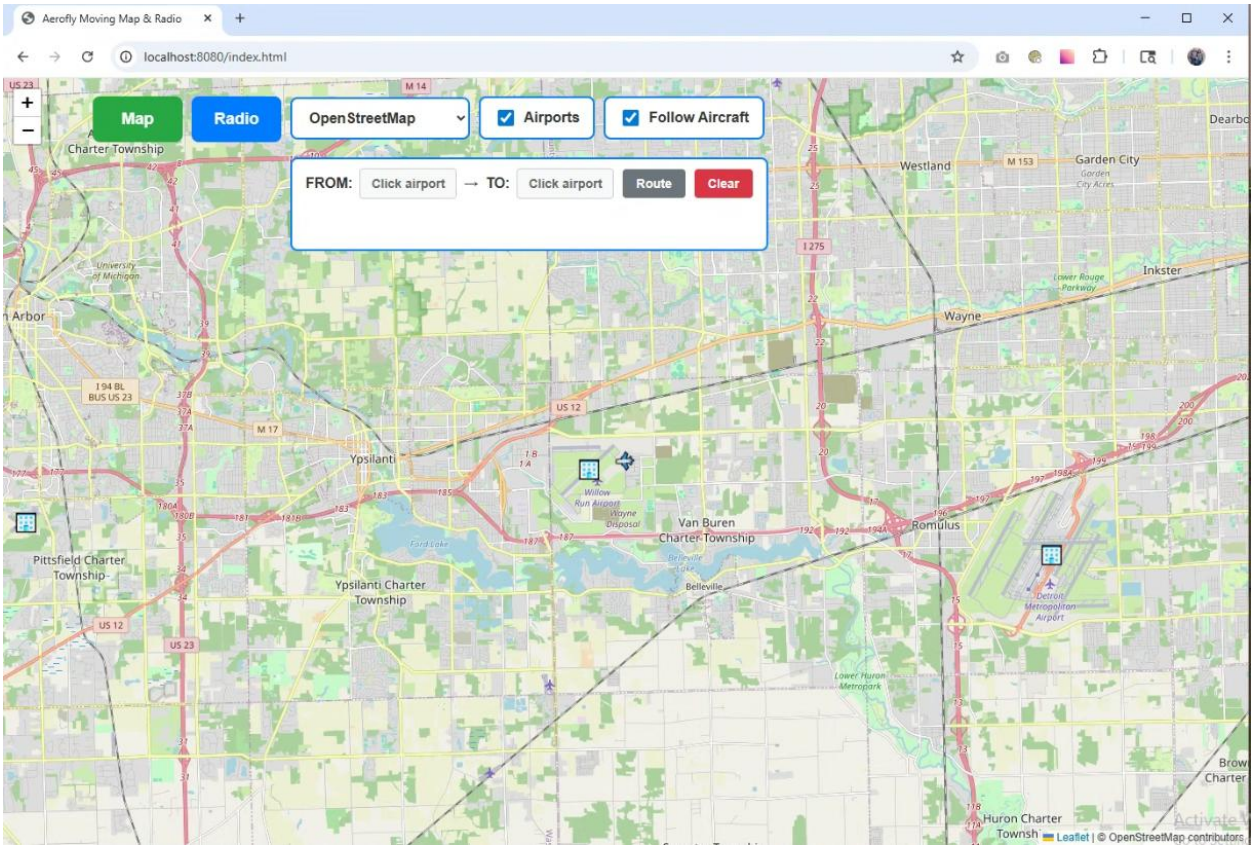
```
C:\Users\sshaper>cd Dropbox\aeroflyToSayIntentions

C:\Users\sshaper\Dropbox\aeroflyToSayIntentions>python -m http.server 8080
Serving HTTP on :: port 8080 (http://[::]:8080/) ...
```

Then open your Aerofly application and pick a location to start. For this example I will be at Willow Run airport kyip. Open a web browser, I used Google Chrome, and enter

http://localhost:8080/index.html

You will see the following. Notice the plane icon is at Willow Run airport. It will appear at whatever airport you use as your location. Once you see this you can open the Say Intentions application.



Alternative Easier Way to Start Application.

In the files I have a start_aerofly_map.bat file that will do all these processes for you. What I did was keep the .bat file in with the rest of the files and create a shortcut to it that I have on my desktop. I double click the short cut and it starts the websocket, local server, sayintentions and then opens up Steam VR. Once there I open the rest of my apps in VR. You will have to modify the file for your file location an paths but the file is pretty self explanatory.

Using OVR Tookit

To use and interact with this application in VR you need to install OVR Tookit into your Steam library. It is a pay ware program that costs about 10 dollars. There are other as well so you can look at those if you want, OVR Toolkit is what I use. Basically, you need an application that can load other window screens into your VR view.

Using the Application on a Separate Tablet

You can run this application on a tablet on your local network all you need to is change one part of the main.js file. Located in js/main.js. Open that file is a text editor and go to around line 692. There you will see the instructions which I also included here.

```
691
692  // Function to establish WebSocket connection with Python backend
693  function connectWebSocket() {
694    const socket = new WebSocket("ws://localhost:8765");
695
696    //If you want to run this program on a tablet comment out the line above and uncomment the line below that reads:
697    //const socket = new WebSocket("ws://enter your computer local network ip address here:8765")
698
699    // Then enter your local computer network ip address where it reads enter your computer local network ip address here.
700    // For example, if your local network ip address is 192.168.1.100, you would enter:
701    // const socket = new WebSocket("ws://192.168.1.100:8765")
702
703    // You can find your local network ip address by opening a command dialog box and entering ipconfig.  The output will look like this:
704    // 192.168.1.100
705    // 192.168.1.101
706    // 192.168.1.102
707    // 192.168.1.103
708    // 192.168.1.104
709    // 192.168.1.105
710
711    //const socket = new WebSocket("ws://enter your computer local network ip address here:8765")
712    window.radioWebSocket = socket; // Make it globally accessible for radio updates
```

Once you make the change open your tablet browser and instead of entering the localhost you would enter.

http://your local ip address:8080/index.html

Actually, you probably could use the localhost because it is the samething.

Using the Application

I made a video demonstrating the application it can be found at