

In this short user guide I will speak about the following topics:

- 1. How this program was born.
- 2. What this program is going to do.
- 3. What this program is **NOT** going to do.
- 4. How to use this program.
- 5. Some issues when using this program.
- 6. Acknowledgments.



#### How this program was born...

Sometimes my students asked me for flights to practice in the simulator with certain requirements (for example: airports with arc on departure or arrival, with ILS approach, or airports with certain difficulty), and I ended up suggesting the same flights over and over again...so I decided to write a program where my students could select the options and based on them my program would suggest flights.

That's how *Flight Gen!*© was born. Several other options were added, for example suggestions based on the time you have available for the flight, this way, if you have only 30 minutes in the KingAir 350, *Flight Gen!*© will select one flight for you... as simple as that!

This program is for all my students. I hope you find it useful...and practice until you can navigate with no errors.



#### What this program is going to do.

The objective of *Flight Gen!©* is simple:

This program will suggest a flight for you based on your selected options.

Once the flight is suggested, it will give you very basic airport information like ICAO codes, runways available, runway length, course and distance and EET to your destination, and some other info.

All suggested flights will be in Colombia.



#### What this program is <u>NOT</u> going to do.

This program will not:

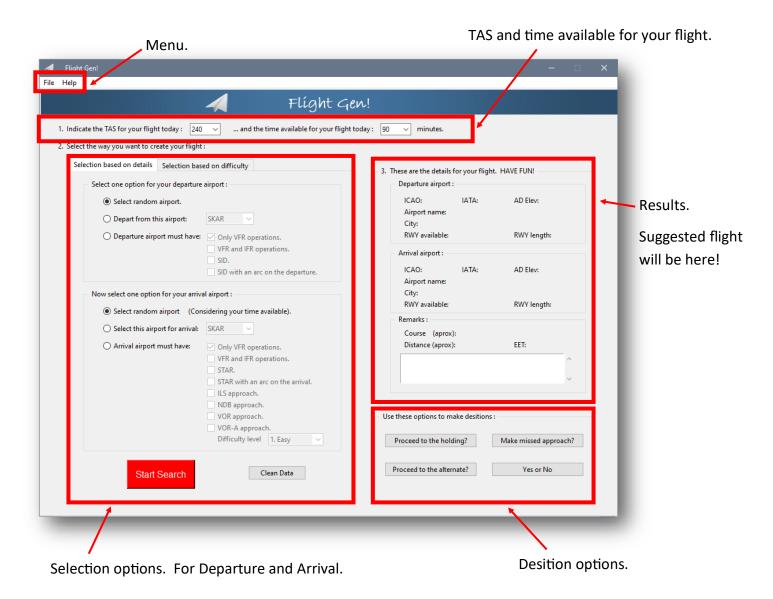
- 1. Read your mind... select the options carefully.
- 2. Give you a flight plan for your flight.
- 3. Give you METAR or TAF information for your flight.
- 4. Suggest flights outside of Colombia.
- 5. Interact in any way with your flight simulator.
- 6. Teach you how to navigate. ..but it will give you good reasons to practice!



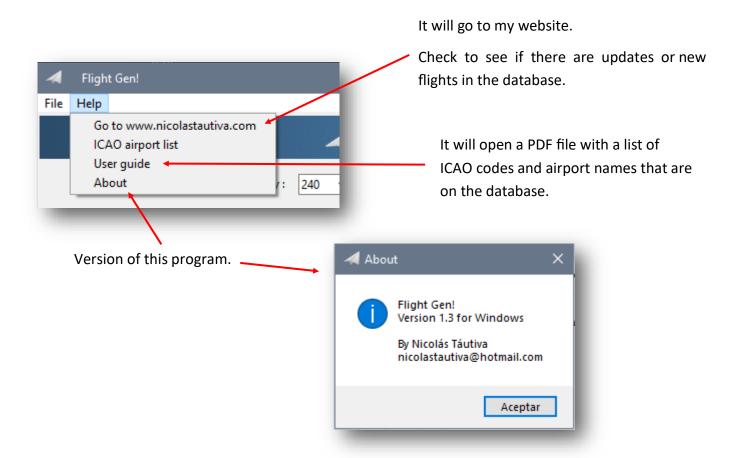
#### How to use this program.

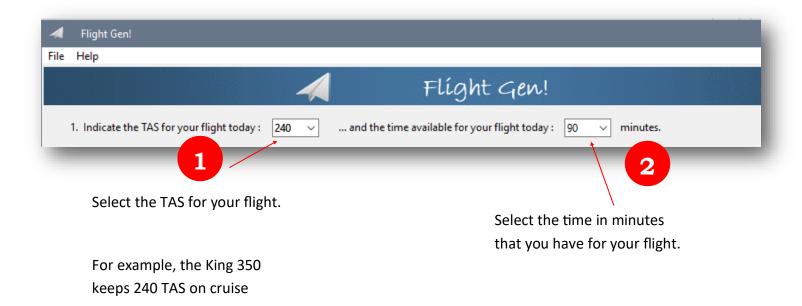
I tried to make the interface as simple and intuitive as I could, but remember that the program has many options, so read this manual and follow the instructions.

These are the parts of the program. In the next pages I will describe each option in detail.











- 3 Two options here.
  - 1. Selection based on details
  - 2. Selection based on flight difficulty (refer to page 9)
- Let's say you want to specify the details for your departure and arrival airports:

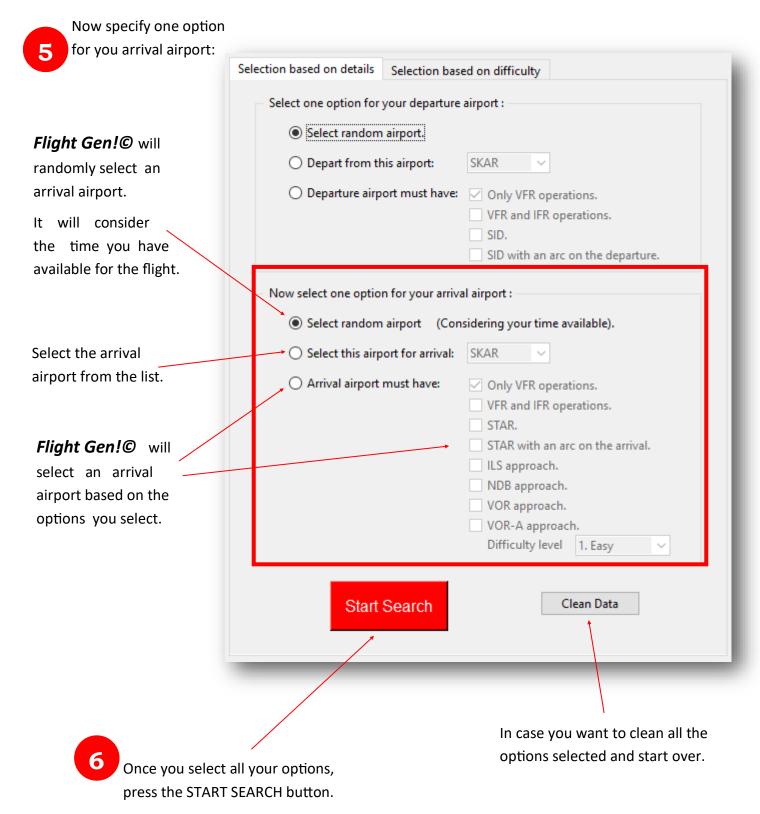
**Flight Gen!** will randomly select a departure airport from the database.

Select the departure airport from the list to the right.

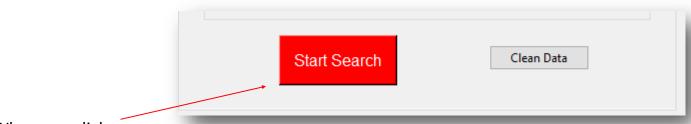
**Flight Gen!** © will select a departure airport based on the options you select.

Selection based on details Selection based on difficulty	
Select one option for your departure airport :	
Select random airport.	
O Depart from this airport	: SKAR V
O Departure airport must l	,
	VFR and IFR operations.
	SID with an arc on the departure.
Now select one option for your arrival airport :	
Select random airport (Considering your time available).	
Select this airport for arr	rival: SKAR V
Arrival airport must hav	e: ✓ Only VFR operations.
	VFR and IFR operations.
	STAR.  STAR with an arc on the arrival.
	ILS approach.
	NDB approach.
	VOR approach.
	VOR-A approach.
	Difficulty level 1. Easy
Start Search Clean Data	
Start Search	Clean Data





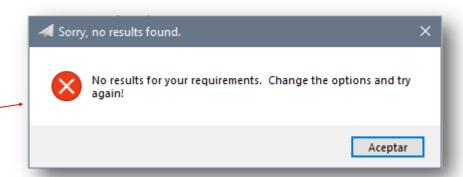




When you click on START SEARCH, Flight Gen!© can give you 2 alert warnings.

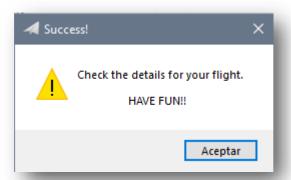
#### Option 1:

In case that Flight Gen!© doesn't find any flights with your requirements, change the options a try again.

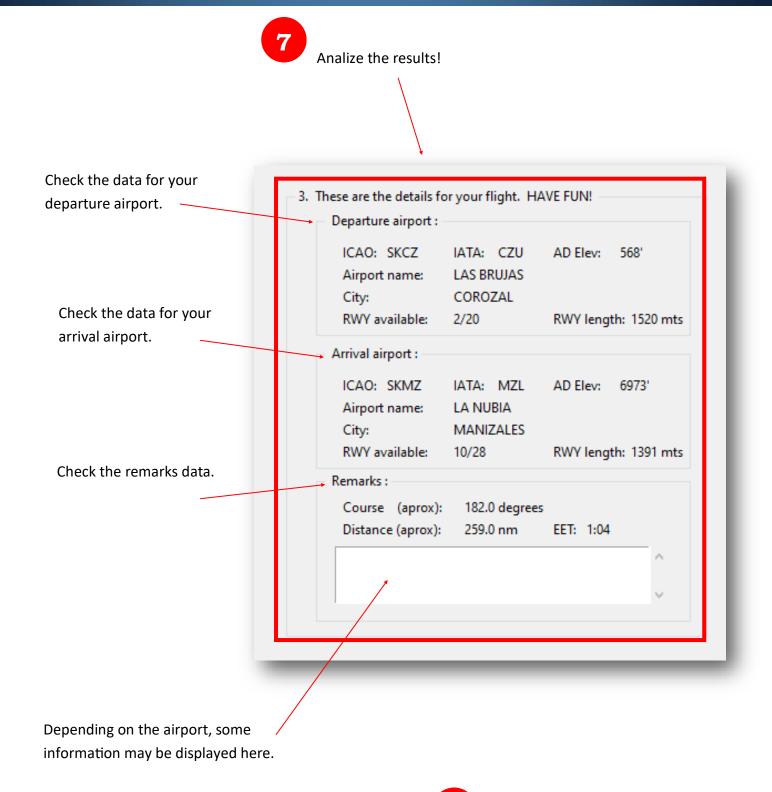


#### Option 2:

In case that Flight Gen!© successfully finds a flight for you. (Results on the next page)



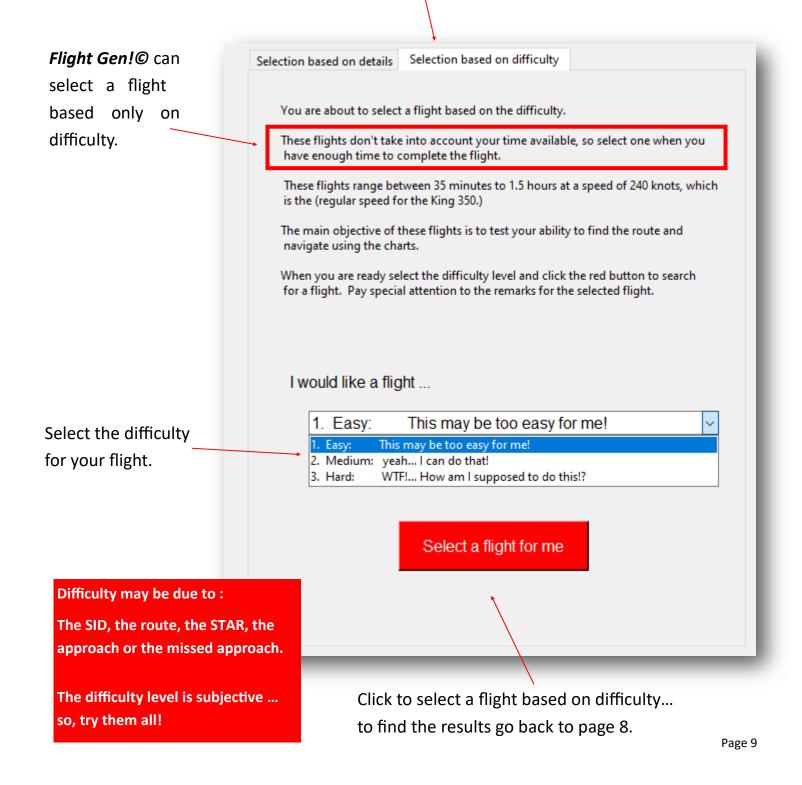




Make your flight... and HAVE FUN!



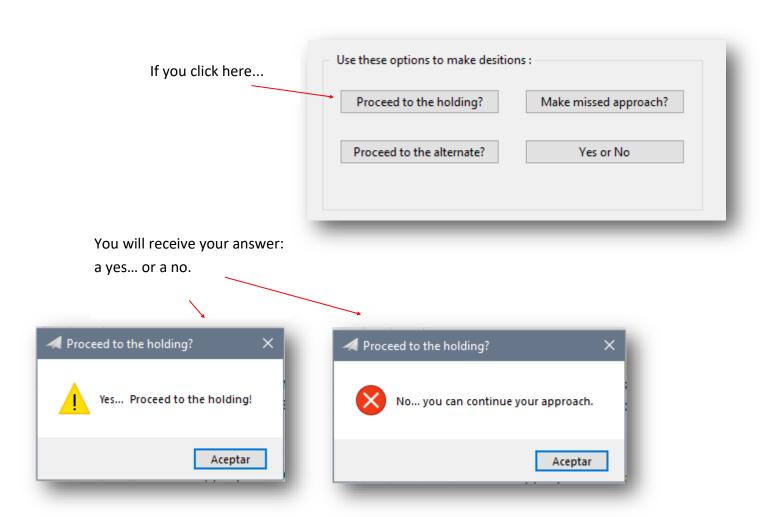
- Remember the two options here??
  - Selection based on details
  - 2. Selection based on flight difficulty (on this next page)





Use the desition options to know what to do next in your flight.

**Flight Gen!** © will help you to make desitions and make your flights less predictable. Just click on the question, and a pop-up message will give you the answer.





#### Some issues when using this program

There are some things to consider when you use *Flight Gen!* ©.

- 1. All the flights suggested are in Colombia. The reasons? On one hand, I created a database with the necessary information for the program to find all posible airport characteristics, something not easy to do for every contry in the world. On the other hand, because the objective is to create flights (IFR hopepfully) and that you practice... that means using charts (and finding IFR charts for other countries is not easy).
- 2. **Flight Gen!**© is a computer program, so it will make whatever you make it to. So, make good choices and the program will return good answers. For example: asking for a 60 minutes flight departing from San Andres in a C172 will not give you many possibilities.
- 3. Colombia has more tan 120 airports, but *Flight Gen!* will uses a database with only 70, so don't expect to fly to every airport in the country. If this program is used by many people, I will consider adding more aiports to the database.
- 4. If you find any errors in the *Flight Gen!©* (you know...l'm not a profesional programmer), please contact me with the details of the error. I'll try to fix it as soon as possible.
- 5. All the information given by *Flight Gen!©* is for training purposes. **DO NOT USE IN REAL**NAVIGATION!



#### Acknowledgment

#### Special thanks to:

- 1. Santiago Falla. Los Halcones pilot student, who gave me fantastic ideas and encouraged me to improve *Flight Gen!* ©.
- 2. Andrés Palacios. For his support in the website.
- 3. Last but no least, Diana Valencia. For her loving patience and support.