RealAirlinesPlanner – Documentation v1.6.1

# 1. Overview

RealAirlinesPlanner is a Python-based companion tool for Microsoft Flight Simulator 2024. It enables users to generate real-world flight plans by combining Flightradar24 data, SimBrief integration, and a local scan of installed aircraft and airports to ensure realism and compatibility.  
  
Unlike other career tools that include general aviation, firefighting, photography, or bush trips, RealAirlinesPlanner focuses exclusively on airline operations. This approach caters to virtual pilots who want to experience real-world airline routines, use high-fidelity aircraft, and operate in visually accurate sceneries.  
  
The motivation behind the project stems from the lack of tools that combine real-time flight matching, custom SimBrief flight generation, and realistic constraints (e.g., flying only between custom-installed airports).

# 2. Features

- Real-time flight scraping from Flightradar24 (mocked for now)

- Aircraft detection system focusing on Fenix A319/A320/A321 liveries

- Airport scanner detecting both handcrafted and third-party sceneries

- Interactive GUI built with PyQt5 for selecting aircraft, airports, and flights

- Integrated SimBrief flight generation with pre-filled data

- Interactive world map showing selected departure and arrival airports

- Persistent settings and JSON configuration files

- Multi-language support with instant language refresh