**Project Directory Structure Explained**

The Contest Log Analyzer is organized into a logical structure that separates the core application code from data, logs, and generated reports. This design makes the project easy to manage, test, and extend.

Visual Diagram

Contest-Log-Analyzer/

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├── 📄 main\_cli.py # Main script to run the program

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├── 📦 contest\_tools/ # The core Python application package

│ ├── 📄 cabrillo\_parser.py # Reads raw Cabrillo files

│ ├── 📄 contest\_log.py # Processes a single log

│ ├── 📄 log\_manager.py # Manages multiple logs

│ │

│ ├── 📦 contest\_definitions/ # Rules for each contest (JSON files)

│ ├── 📦 core\_annotations/ # Universal logic (Run/S&P, Country)

│ ├── 📦 contest\_specific\_annotations/ # Contest-specific logic (Scoring)

│ └── 📦 reports/ # All report generator modules

│

├── 📁 data/ # Data files the program uses

│ ├── 📄 cty.dat

│ └── 📄 cqww.cty

│

├── 📁 Docs/ # User documentation and guides

│

├── 📁 Logs/ # Your input Cabrillo log files

│ └── 📁 YYYY/

│ └── 📁 Contest-Name/

│ └── 📄 k3lr.log

│

└── 📁 reports\_output/ # All generated reports and plots

└── 📁 YYYY/

└── 📁 Contest-Name/

├── 📁 text/

├── 📁 plots/

└── 📁 charts/

Description of Key Directories

Root Directory (Contest-Log-Analyzer/)

This is the main folder for the project.

* main\_cli.py: This is the primary executable script. You run this file from your command line to start the analysis process.
* contest\_tools/: This is the heart of the application. It's a Python package that contains all the core logic for parsing logs, applying annotations, and generating reports.
* data/: This directory holds the essential data files that the analyzer needs to function, primarily the country files (cty.dat, cqww.cty, etc.).
* Docs/: Contains all user-facing documentation, such as user guides and algorithm descriptions.

Pattern-Based Directories (Logs/ and reports\_output/)

You've correctly identified that these two directories follow a consistent organizational pattern. This makes it easy to manage your input files and find your results.

* Logs/: This is where you should store your input Cabrillo log files. The recommended structure is to organize them by year and then by contest name (e.g., Logs/2025/CQ-WPX-CW/). This keeps your raw data tidy.
* reports\_output/: This is where the program saves all of its output. It automatically mirrors the Logs structure. For a given run, it will create a directory for the year and contest name, and inside that, it will create three subdirectories:
  + text/: Contains all text-based reports (e.g., summaries, rate sheets).
  + plots/: Contains all line graphs (e.g., QSO/Point rate plots).
  + charts/: Contains all other graphical reports (e.g., bar charts, Venn diagrams).

This structured approach ensures that all the inputs and outputs for a specific contest analysis are grouped together in a predictable way.