

Contest Log Analyzer - Installation Guide

****Version: 0.37.0-Beta****

****Date: 2025-08-18****

--- Revision History ---

[0.37.0-Beta] - 2025-08-18

Changed

- Aligned version with other documentation files.

- Corrected the list of required data files in Step 6, removing the

obsolete reference to CQ160mults.dat and clarifying which

contests use each file.

[0.35.22-Beta] - 2025-08-15

Changed

- Updated the list of required data files in Step 6 to be complete.

- Removed the obsolete Kaleido dependency from the installation

command in Step 3.

[0.33.1-Beta] - 2025-08-13

Changed

- Updated installation instructions to use a single, consolidated conda

command for all dependencies, including ffmpeg.

[0.33.0-Beta] - 2025-08-13

Added

- Added plotly, kaleido, and imageio to the list of required libraries

to support the new animation reports.

[1.1.0-Beta] - 2025-08-10

Changed

- Overhauled the installation process to use Git and Conda/Miniforge for

a more robust developer setup.

[1.0.0-Beta] - 2025-08-10

Added

- Initial release of the Installation Guide.

Introduction

This document provides instructions for setting up the Contest Log Analyzer application and i

1. Prerequisites

Before you begin, ensure you have the following software installed on your system:

* ****Git:**** For cloning the source code repository.

* ****Miniforge:**** This is the recommended way to install Python and manage the project's libra

2. Installation Steps

Step 1: Clone the Repository

Open a terminal or command prompt, navigate to the directory where you want to store the proj

git clone <https://github.com/user/Contest-Log-Analyzer.git> cd Contest-Log-Analyzer

This will create the project directory (`Contest-Log-Analyzer`) on your local machine.

Step 2: Create and Activate the Conda Environment

It is a best practice to create an isolated environment for the project's dependencies. This j

Create an environment named "cla" with Python 3.11

conda create --name cla python=3.11

Activate the new environment

```
conda activate cla
```

```
### Step 3: Install Libraries with Conda
```

With the `cla` environment active, use the following single command to install all required libraries.

```
conda install -c conda-forge pandas matplotlib seaborn plotly imageio ffmpeg
```

```
### Step 4: Set Up the Data and Reports Directory
```

The application requires a specific directory structure for its operation. You must create a main directory and sub-directories. For example, create a main folder `C:\Users\devnu\Desktop\CLA_Data`. Inside this folder, you must create the following sub-directories:

```
CLA_Data/ | +-- data/ | +-- logs/ | +-- reports/
```

```
### Step 5: Set the Environment Variable
```

You must set a system environment variable named **`CONTEST_LOGS_REPORTS`** that points to the main directory.
For Windows:

1. Open the Start Menu and search for "Edit the system environment variables."
2. In the System Properties window, click the "Environment Variables..." button.
3. In the "User variables" section, click "New...".
4. For "Variable name," enter: `CONTEST_LOGS_REPORTS`
5. For "Variable value," enter the full path to your main directory (e.g., `C:\Users\devnu\Desktop\CLA_Data`)
6. Click OK to close all windows. You must **restart** your terminal or command prompt for the changes to take effect.

```
### Step 6: Obtain and Place Data Files
```

The analyzer relies on several external data files. Download the following files and place them in the `data` sub-directory:

- * `cty.dat`: Required for all contests.
- * `arrrl_10_mults.dat`: Required for the ARRL 10 Meter contest.
- * `ARRLDXmults.dat`: Required for the ARRL DX contest.
- * `NAQPMults.dat`: Required for NAQP and CQ 160-Meter contests.
- * `SweepstakesSections.dat`: Required for ARRL Sweepstakes.

```
## 3. Running the Analyzer
```

To verify the installation, run the program from the project's source code directory. Ensure the environment is active.

Make sure your conda environment is active

```
conda activate cla
```

Run the script from the main project directory

```
(cla) C:\Users\devnu\Desktop\Contest-Log-Analyzer>python main_cli.py --report score_report  
..\CLA_Data\logs\2025\NAQP-CW\aug\k3aj.log
```

If the installation is successful, you will see an output message indicating that the report was generated successfully.