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# Contest Log Analyzer - Installation Guide

**Version: 0.37.0-Beta**
**Date: 2025-08-18**

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### --- 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.
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## Introduction
This document provides instructions for setting up the Contest Log Analyzer application and i
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## 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
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## 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
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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 p
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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 l
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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 r
For example, create a main folder `C:\Users\devnu\Desktop\CLA_Data`. Inside this folder, you r
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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 th
**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\D
6.  Click OK to close all windows. You must **restart** your terminal or command prompt for t
### Step 6: Obtain and Place Data Files
The analyzer relies on several external data files. Download the following files and place th

* `cty.dat`: Required for all contests.
* `arrl_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.
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## 3. Running the Analyzer
To verify the installation, run the program from the project's source code directory. Ensure
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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
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