# **Reindeer Hunter**

# Third-Party Libraries Used

The following third-party libraries were used as part of the Reindeer Hunter program:

- IText Sharp
- FileHelpers
- Json.net

The usage rights of these libraries are governed by the Open Source License.

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# Introduction to Reindeer Hunter

The Reindeer Hunter program was created to facilitate the process of managing the Sacred Heart annual Reindeer Hunt, put on by the Student Council of Sacred Heart High School in Stittsville near Christmas time.

# Usage of Reindeer Hunter code

The code for the Reindeer Hunter program is open source, and can be modified and used without permission by the owner. It is available at <a href="https://github.com/eAUE/Reindeer-Hunter">https://github.com/eAUE/Reindeer-Hunter</a>.

Feel free to suggest features or improvements.

# Prerequisites and Setup

# Student Information Spreadsheet

The sudent information spreadsheet is a spreadsheet containing information on all the students that are to be imported into the program. From this spreadsheet, a comma separated values file which can be imported by the program can be generated. The spreadsheet must be of the following format to work properly with the Reindeer Hunter program:

	А	В	С	D	E
1	First	Last	Student Number	Grade	Homeroom
2	First 9-1	Last 9-1	9000001	9	901
3	First 9-2	Last 9-2	9000002	9	902
4	First 9-3	Last 9-3	9000003	9	903
5	First 9-4	Last 9-4	9000004	9	904
6	First 9-5	Last 9-5	9000005	9	905
7	First 9-6	Last 9-6	9000006	9	906
8	First 9-7	Last 9-7	9000007	9	907
9	First 9-8	Last 9-8	9000008	9	908
10	First 9-9	Last 9-9	9000009	9	909
11	First 9-10	Last 9-10	9000010	9	910
12	First 9-11	Last 9-11	9000011	9	912
13	First 9-12	Last 9-12	9000012	9	912
14	First 9-13	Last 9-13	9000013	9	913
15	First 9-14	Last 9-14	9000014	9	914
16	First 9-15	Last 9-15	9000015	9	915

If any of those fields are empty, then an error will be raised when the comma separated values file is imported.

# Student Results Spreadsheet

The student result spreadsheet is an easy way to input multiple match results into the program at once, using a comma separated values file generated by the spreadsheet. The spreadsheet should be of the following format:

	А	В	С	D	E
1	Timestamp	Student's First Name	Student's Last Name	Student's Homeroom	Student's Number
2	10/21/2017 9:10:54	First 9-6	Last 9-6	906	

The Timestamp is ignored by the program, so it can be empty. To function properly on import, either the Student's First Name; Last Name and Homeroom fields must be filled in correctly **or** just the student's number **or** all of the fields must be filled in correctly.

Convert the spreadsheet to a comma separated values format and it can be imported via the Import Match Results menu option in the Home Page. See <a href="Home Page">Home Page</a>.

# Student License Form Template

When the instant print function is used in the Reindeer Hunter program, the app will look for a template PDF file to duplicate and fill in its data directory. If such a file does not exist, it will open a prompt asking for one. Therefore, the license form template must be of proper format.

It must be a PDF file with form fields named correctly and have 8 licenses per page. The form fields' names should be

#### REINDEER HUNTING REINDEER HUNTING **LICENSE LICENSE** This license permits This license permits to in round hunt in round of Sacred Heart's 9th Annual Reindeer Hunt. Hunting is of Sacred Heart's 9th Annual Reindeer Hunt. Hunting is only permitted during the following hours: only permitted during the following hours: **Before School**: 7:30 a.m. - 8:15 a.m. **Before School**: 7:30 a.m. – 8:15 a.m. Lunch: 11:10 a.m. - 11:45 a.m. Lunch: 11:10 a.m. - 11:45 a.m. **After School**: 2:30 p.m. – 2:45 p.m. **After School**: 2:30 p.m. – 2:45 p.m. To be entered into the next round of the hunt you must To be entered into the next round of the hunt you must successfully capture your competitor by 2:45 p.m. on successfully capture your competitor by 2:45 p.m. on Wednesday, December 3rd Wednesday, December 3rd REINDEER HUNTING REINDEER HUNTING LICENSE LICENSE This license permits This license permits to to of Sacred Heart's 9th Annual Reindeer Hunt. Hunting is of Sacred Heart's 9th Annual Reindeer Hunt. Hunting is only permitted during the following hours: only permitted during the following hours: **Before School**: 7:30 a.m. – 8:15 a.m. **Before School**: 7:30 a.m. – 8:15 a.m. Lunch: 11:10 a.m. – 11:45 a.m. **Lunch**: 11:10 a.m. – 11:45 a.m. **After School**: 2:30 p.m. – 2:45 p.m. **After School**: 2:30 p.m. – 2:45 p.m. To be entered into the next round of the hunt you must To be entered into the next round of the hunt you must successfully capture your competitor by 2:45 p.m. on successfully capture your competitor by 2:45 p.m. on Wednesday, December 3rd Wednesday, December 3rd REINDEER HUNTING REINDEER HUNTING **LICENSE LICENSE** This license permits This license permits hunt in round hunt in round

# First-time setup

The first time you open the program, the screen that appears should look like the picture to the side. There is

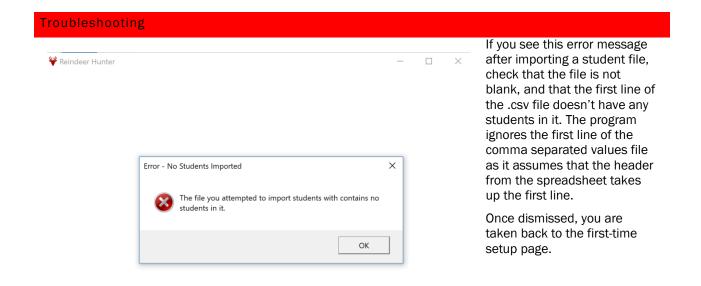
only one action that can be taken at this screen: importing a .csv file.

This button is in fact prompting the user to import a .csv file. This is in fact asking for the .csv file generated by the steps followed in the <a href="Student Information">Student Information</a>

SpreadsheetStudent Information
Spreadsheet section. This comma
separated values (or .csv) file contains the
necessary student data for the students
you wish to manage during the Reindeer
Hunt

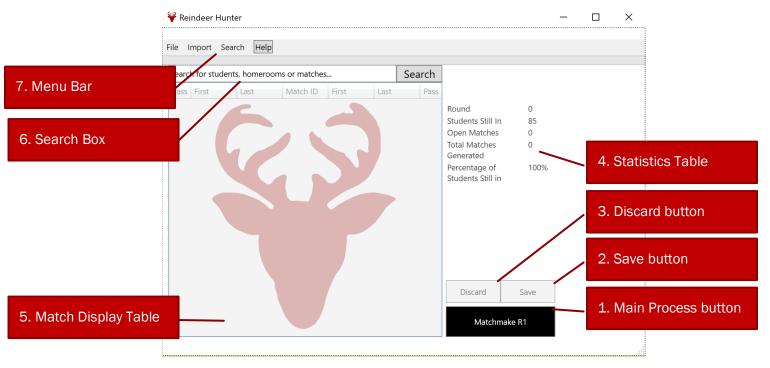
Note that the option to Import Students becomes unavailable once round 1 of the hunt begins.

Once students are properly imported, you should be taken to the <u>Home Page</u> of the program. This process of importing students could take some time, especially if you have a large number of students to import. If you encounter any errors during this stage, see the <u>troubleshooting</u> section.



# Home Page

The Home Page of the Reindeer Hunter program offers an overview of the current Reindeer Hunt as well as many of the actions that can be performed to manage the hunt.



1. Main Process
Button

As the title suggests, this is the button for the major actions in the Reindeer Hunter program. It has three states: Matchmake, Instant Print and Go to FFA.

# Shortcut key: SPACE

#### Matchmake

When in the Matchmake state, clicking the Main Process Button will automatically generate matches with the students that are currently still in the hunt, and then displays them on the Match Display Table. Once created, the matches must be saved before any actions affecting these matches can be performed.

Save matches using the Save Button.

The Main Process Button will be in Matchmake state when sufficient students are still in the hunt to not be in Free For All state (Go To FFA state) and all matches are closed.

#### Instant Print

When in Instant Print state, clicking the Main Process Button will generate a PDF file of Reindeer Hunt licenses filled with the current matches' information.

If the template PDF file has not been imported already into the program, clicking the Instant Print button will prompt you to open the template PDF file.

Once the process is completed, a file dialog will open prompting to save the newly filled licenses. If this is cancelled, the filled licenses will export to the current user's desktop.

The Main Process button will be in this state when there are currently matches open in the current round.

Note: The Instant Printer fill the licenses with all matches from the current round, even if they are closed.

### Go To FFA

When in Go To FFA state, clicking the Main Process button changes the program to the Free For All page. See <u>Free For All.</u>

## 2. Save Button

The Save button becomes enabled whenever an action causes a change that needs saving, such as Matchmaking or modifying matches in the Match Display Table.

Clicking it saves the modified content.

#### Shortcut Key: S

#### 3. Discard Button

The Discard button becomes enabled whenever an action causes a change that needs saving, such as Matchmaking or modifying matches in the Match Display Table.

Clicking it discards the modified content.

## Shortcut Key: D

#### 4. Statistics Table

The Statistics table displays various data on the current round of the Reindeer Hunt.

# 5. Match Display Table

The Match Display table displays matches based on the currently selected filters. See <u>Filters and Search</u>.

It also allows you to pass students into the next round by checking the checkbox next to the student and then saving.

On top of this, you can view information on either students or matches by double clicking on the cell that contains the Match ID or the student's information. See Properties Window.

# 6. Search Box

The Search Box acts alongside with the Filters and Search system to aid in sorting through matches or finding students. Matches, homerooms and students can be searched for.

Search for matches by entering the match id. See <u>Match ID</u> section for formatting of the match id.

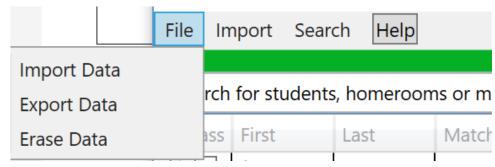
Search for students in a homeroom by entering the homeroom's number into the search box.

Search for students either by entering their full name, or their student number.

Submit your search using the Search button, or by pressing **Tab**.

# 7. Menu Bar File Menu

The Menu Bar contains various menus.



## Import Data

Imports exported Reindeer Hunt data. When this option is pressed, a file dialog will open, prompting to open a json file. This json file should contain data that you wish to import into the program.

To ensure that it is of the proper format, only ever import data that has been exported from the Reindeer Hunter program and has not been modified externally.

If an import error dialog pops up when importing a data file, the file that is being imported is of invalid format and cannot be imported, because the file has been modified outside of the Reindeer Hunter program.



## Export Data

Exports the data for the current hunt to a json file that can be imported back into the program later. This can be used to save data for a particular year's Reindeer Hunt or to create backups of the current hunt.

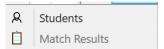
Once clicked, a file dialog will prompt you to save the json file somewhere.

Once exported, the file <u>must not</u> be modified as this could cause failure to import it back into the program.

# Erase Data

Wipe the program, erasing all students, matches and preferences. This action cannot be undone. It is recommended to export data before erasing it, as this way it could be imported again later.

#### Import Menu



Students Import more students from a comma separated values (csv) file. See Student

Information Spreadsheet for proper formatting of this file. Note that this option is only

enabled before the first round is made and saved.

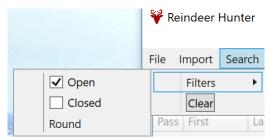
Match

Import the results for matches from a comma separated values (csv) file. See  $\underline{\text{Match}}$ 

Results Results.

This menu option is only enabled when there are matches open.

Search Menu Provides various filters for searching.



Matches can be sorted by the round they belong to, or their status (open or closed).

# Filters and Search

The filters menu options and the search box work together to display relevant content. That is, when searching for students or matches, the filters still apply. Therefore, it you attempt to find a closed match with only the open filter selected, you will not get any results.

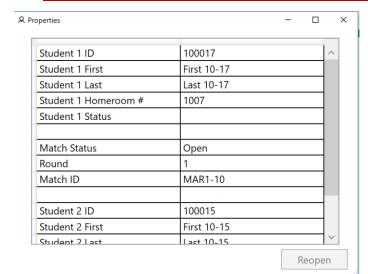
By default, the filters are set to open matches in the current round only. Clearing the filters by pressing the clear button in the Search menu will reset them to this default.

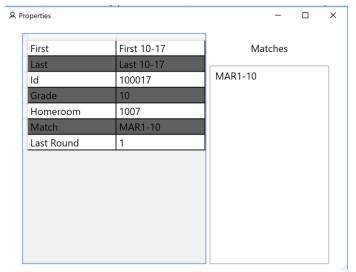
#### Match ID

The match id is unique to every match, and is in the following format:



# **Properties Window**

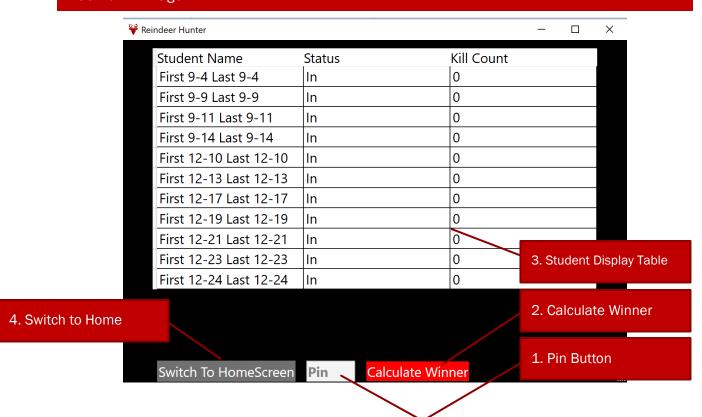




The properties window can be activated either for matches or students from either the Match Display Table in the Home Page or the Student Display Table on the Free For All page. Double clicking on either the match number or one of the students' properties displays a new window containing information on that particular match or student.

When activated from the Home Page's Match Display Table, student properties or matches can be double clicked on from the properties window to switch to seeing information on that student or match, without having to close the window and then find the relevant students or matches.

# Free For All Page

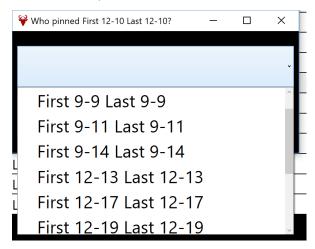


The free for all page is accessed by pressing the Main Process Button from the home page whenever it is enabled. See Home Page. This page is used to manage the free for all portion of the Reindeer Hunt.

1. Pin Button

The pin button is enabled only when a student that is still in the hunt is selected in the Student Display Table.

When this button is pressed while a valid student is selected in the Student Display Table, a dialog asking for the pinner of the selected student will show. Only students that are still in will be listed as options.



### Shortcut Key: P

2. Calculate Winner

The calculate winner button is enabled the entire time and is used to calculate who won the hunt. It does this by finding the student that is still in the hunt and who has the most kills of those still in the hunt.

If there is a tie of some sort, a prompt will open asking for the student that won the coin toss. You can close the program, do the coin toss with the students that tied and reopen the program and select the winner.

Once the winner is calculated, all actions which modify data in the Reindeer Hunter program will be blocked. You can still go back to the home page and browse students and matches though, and perform any other non-modifying actions.

3. Student Display Table

The student display table displays all students in the free for all portion of the Reindeer Hunt. Unlike the match display table on the home page, it cannot be filtered or searched through.

Just like the match display table on the home page, you can double click any of the students' properties and a properties window will open with information on that student. The properties window generated by the free for all page will contain more information than the regular properties window, such as who the student has pinned and how many pins they have.

4. Switch To Home

The switch to home button switches to the home page.

Shortcut Key: H