

## How to use the online tool

### 1. Preparing your files to upload:

#### 1.1. Format

We will use the **comma-separated values (CSV)** format to save the position of the Hexbugs. The following table demonstrates how it should be formatted:

|     | t   | hexbug | x     | y     |
|-----|-----|--------|-------|-------|
| 0   | 0   | 0      | 20.43 | 20.77 |
| 1   | 1   | 0      | 22.88 | 32.98 |
| ... | ... | ...    | ...   | ...   |
| 100 | 0   | 1      | 80.34 | 95.42 |

Here, the first column represents the index of each row, **t** is the frame id, **hexbug** is the hexbug id (going from 0 to 4), and **x** and **y** are the coordinates representing the position of each hexbug. As you know, the raw file should look like this:

```
,t,hexbug,x,y  
0,0,0,20,20  
1,1,0,22,32  
...  
100,0,1,80,95
```

Note that you could obtain more penalties in the final score calculation if you don't follow our format. To avoid that, we created a tool to convert arrays or ".traco" files to our CSV standard (for ".traco" files, you can also use the function in our annotation tool).

#### Example 1 (Traco file):

If you have a Traco file, you can simply use the function

```
tracoToCsv("path_to_traco_file", "test0001.csv")
```

#### Example 2 (arrays containing your results):

If you obtain your results in an arbitrary format, you can save them into an array following the convention [**<#frame>**, **<hexbug\_id>**, **<x>**, **<y>**] and then pass it through the function **fromArrayToDict()**. This function converts your data to a Traco-like-formatted dictionary and appends it into a list.

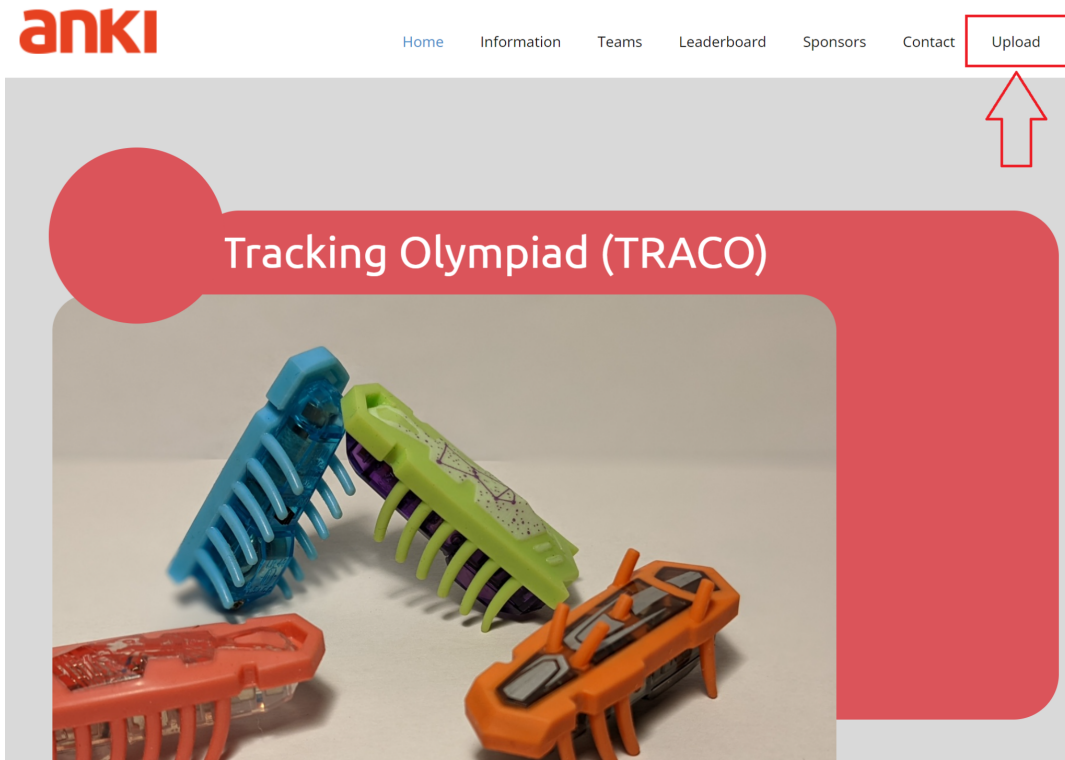
To save that list in our CSV format, you can use the function **saveList()**.

For more information, please refer to the file **to\_csv.ipynb**. There, you will find the functions and helpful examples for both cases.

## 2. Upload your CSV files:

### 2.1. Log In

Go to <https://traco.anki.xyz/upload> :



You will be redirected to the login service. There, you should use the credentials that we created for each team. We will provide you with them privately.

A screenshot of the login page on the Anki website. The 'anki' logo is in the top left. The navigation bar at the top includes links: Home, Information, Teams, Leaderboard, Sponsors, Contact, and Upload. The main content area has a light gray background with the heading 'Log In' in bold black text. Below the heading are two input fields: 'Username:' and 'Password:'. At the bottom of the form is a red button with the text 'LOG IN' in white capital letters.

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- 2.2. Once logged in, upload all your five CSV files as we specified in the previous section of this document.



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## Upload file

Select file to upload:  No file chosen

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Each file has to be named as its respective video file, namely, “**test00X.csv**”. So, in the end, you upload five files with the names *test001.csv*, *test002.csv*,... *test005.csv*. If you don’t follow these conventions, your files will not be taken into consideration and, thus, will lead to more penalties.

- 2.3. After you have uploaded your files, the results can be checked on the [leaderboard](#) page:



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## Leaderboard (Site under construction)

| Position | Team Name   | Score         |
|----------|-------------|---------------|
| 1st      | Team red    | 436.606229914 |
| 2nd      | Team purple | 436.606229914 |
| 3rd      | Team blue   | 436.606229914 |
| 4th      | Team black  | 23538822.6062 |
| 5th      |             |               |
| 6th      |             |               |

**Note:** Fewer points mean a better result!