

## CSV Reader/Writer

Generated by Doxygen 1.9.1



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## Chapter 1

# A very tiny simple CSV file reader

Not for a professional use, but for just visualize, manipulate and print your comma separated data.



## Chapter 2

# Class Index

### 2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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## Chapter 3

# Class Documentation

### 3.1 CSVFile< T > Class Template Reference

```
#include <CSVFile.h>
```

#### Public Member Functions

- **CSVFile** (std::vector< std::string > header, T \*\*data, int rows, int cols)
- void **head** (int heads=5)
- std::vector< std::string > **getHeader** ()
- std::vector< std::vector< T > > **getData** ()
- void **appendToHeader** (std::string element)
- void **appendRowToData** (std::vector< T > row)
- int **getDataRows** ()
- int **getDataCols** ()

#### 3.1.1 Detailed Description

```
template<class T>  
class CSVFile< T >
```

This is [CSVFile](#) class, use this class for manage or create your CSV file. This class has two attributes:

- header (vector<string>) : Usually a CSV File contains an header for Columns Names
- data (vector<vector<T>>): The data (numerical) contained in the file.

Constructor:

- No params: Creates empty [CSVFile](#) Object

Constructor with Parameters:

- vector<string> header: if you want to build [CSVFile](#) object starting from already existing data

- `T** data` : if you have a matrix of numerical data

Methods:

- `appendToHeader`: Append element to header (kept private)
- `appendRowToData`: Append a vector of values to data matrix (kept private)
- getters

The documentation for this class was generated from the following file:

- `CSVFile.h`

## 3.2 `CSVRow< T >` Class Template Reference

### Public Member Functions

- `CSVRow` (`CSVRow` &other)=delete
- void `operator=` (const `CSVRow` &)=delete
- void `read_file` (std::string filepath, `CSVFile`< T > \*file, bool header=true, char delim=',')
- void `write_file` (std::string filename, `CSVFile`< T > \*file, char delim=',')

### Static Public Member Functions

- static `CSVRow` \* `instance` (dtypes dt)

The documentation for this class was generated from the following file:

- `CSVRow.h`

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