CSV Reader

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Unity 2019.x tested.

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My Lab: DCXR
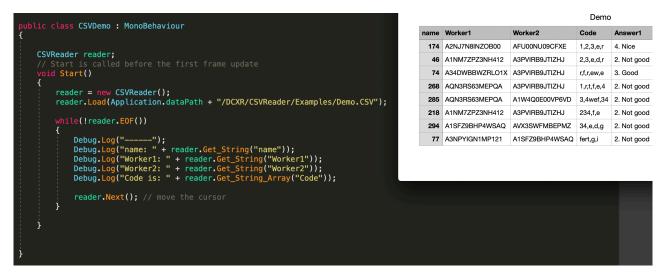
Github: Click Here

CSV Reader is a helper tool helps you to read the csv files.

It is easy and simple to use.

Quick Start

- Load a csv file.
- Read the data by the column name.
- Move the cursor to next row
- Keep reading the data, until the end of the file.

```
public class CSVDemo : MonoBehaviour
{

    CSVReader reader;
    // Start is called before the first frame update
    void Start()
    {
        reader = new CSVReader();
        reader.Load(Application.dataPath + "/DCXR/CSVReader/Examples/Demo.CSV");

        while(!reader.EOF())
        {
            Debug.Log("-----");
            Debug.Log("name: " + reader.Get_String("name"));
            Debug.Log("Worker1: " + reader.Get_String("Worker1"));
            Debug.Log("Worker2: " + reader.Get_String("Worker2"));
            Debug.Log("Code is: " + reader.Get_String_Array("Code"));

            reader.Next(); // move the cursor
        }

    }
}
```

Demo

name	Worker1	Worker2	Code	Answer1
174	A2NJ7N8INZOB00	AFU00NU09CFXE	1,2,3,e,r	4. Nice
46	A1NM7ZPZ3NH412	A3PVIRB9JTIZHJ	2,3,e,d,r	2. Not good
74	A34DWBBWZRLO1X	A3PVIRB9JTIZHJ	r,f,r,ew,e	3. Good
268	AQN3RS63MEPQA	A3PVIRB9JTIZHJ	1,r,t,f,e,4	2. Not good
285	AQN3RS63MEPQA	A1W4Q0E00VP6VD	3,4wef,34	2. Not good
218	A1NM7ZPZ3NH412	A3PVIRB9JTIZHJ	234,f,e	2. Not good
294	A1SFZ9BHP4WSAQ	AVX3SWFMBEPMZ	34,e,d,g	2. Not good
77	A3NPYIGN1MP121	A1SFZ9BHP4WSAQ	fert,g,i	2. Not good

More details please see the example inside the tool.

How does it work?

CSV Reader is technically a state machine, and it handles an internal cursor to always point to the current row, which allows CSV Reader to visit.

APIs

- Load a csv file which with the header row. It is recommended to have the header row, which may easier to access the data by the column name.

  public bool Load(string path, bool mapping_header = true);

- How many records the csv file has.

  public int Count();

- Reset the cursor to the first row.

  public bool Reset_Cursor();

- Move the cursor to the next row.

  > public bool Next();

- End of the file.

  > public bool EOF();

- Get the data by the given column name.

  > public string Get_String(string colName);

- Get the array data by the given column name.

  > public string[] Get_String_Array(string colName);

- Get the raw data of the current row.

  > public List Get_Origin_Record();

Advantages

- Easy and simple to use.
- Lite-weight tool.