Hello CsvUtility

This file is the user manual for CsvUtility.

I hope you will use this asset to save time on cumbersome csv work. also hope to use that time in more creative ways to develop more fun games.

Lastly, I am using a translator because I am a Korean who does not speak English. Therefore, the quality of the description may be reduced. If you do not understand the explanation, please use the pictures and demo code.

1. Load Sample

sample class

```
Jenum Games
     Ori and the Will of the Wisps,
     OMORI.
     OneShot,
     Katana ZERO,
     Danganronpa,
     VA 11 Hall A Cyberpunk Bartender Action,
 [Serializable]
 참조 2개
∃class BlogTest
     [SerializeField] int number;
     [SerializeField] string text;
     [SerializeField] float primeNumber;
     [SerializeField] bool flag;
     public KeyValuePair<int, string> pair;
     [SerializeField] Games games;
```

And in order to be applied to CsvUtility, it is unconditional!! It must be public or have the [SerializeField] property. Note that this rule is the same as for JsonUtility.

sample csv file

1	A	В	С	D	E	F	G	Н
1	number	text	primeNum	flag	pair	games		
2	1	Н	0.1	TRUE	6, W	Ori_and_the	e_Will_of_	the_ W isps
3	2	He	0.2	TRUE	7, W o	OMORI		
4	3	Hel	0.3	TRUE	8, W or	OneShot		
5	4	Hell	0.4	FALSE	9, Worl	Katana_ZER	.0	
6	5	Hello	0.5	FALSE	10, World	Danganron	ра	
7								

The first line is the variable name, followed by the data.

code

```
© Unity 스크립트(자산 참조 1개) | 참조 0개

[public class Blog : MonoBehaviour]

{
        [SerializeField] BlogTest[] blogTests;
        [SerializeField] TextAsset csvAsset;

        [ContextMenu("Do Test")]
        참조 0개
        void Test()
        {
              blogTests = CsvUtility.CsvToArray<BlogTest>(csvAsset.text);
        }
    }
```

result

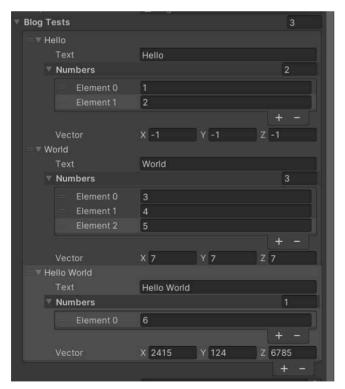


2. Save Sample

sample class

```
[Serializable]
참조 1개
Eclass BlogTest
{
        [SerializeField] string text;
        [SerializeField] int[] numbers;
        public Dictionary<Games, float> MetacriticScoreByGame;
        [SerializeField] Vector3 vector;
}
```

sample data



code

```
BUDILY 소크립트(사건 점호 기계)점호 U개
Bpublic class Blog: MonoBehaviour

{
    [SerializeField] BlogTest[] blogTests;
    [SerializeField] TextAsset csvAsset;

참조 1개
    string filePath => Path.Combine(Application.dataPath, "saveTest.csv");

[ContextMenu("Do Test")]
참조 0개
    void Test()
{
        blogTests[0].MetacriticScoreByGame.Add(Games.Ori_and_the_Will_of_the_Wisps, 8.9f);
        blogTests[0].MetacriticScoreByGame.Add(Games.OMORI, 9.2f);
        blogTests[1].MetacriticScoreByGame.Add(Games.OmoShot, 8.9f);
        blogTests[1].MetacriticScoreByGame.Add(Games.Danganronpa, 8.7f); // 단간론파2 기준 점수입니다.
        blogTests[2].MetacriticScoreByGame.Add(Games.VA_11_Hall_A_Cyberpunk_Bartender_Action, 8.3f);

        string csv = CsvUtility.ArrayToCsv(blogTests);

        Stream fileStream = new FileStream(filePath, FileMode.Create, FileAccess.Write);
        StreamWriter outStream = new StreamWriter(fileStream, System.Text.Encoding.UTF8);
        outStream.Write(csv);
        outStream.Close();
}
```

result

^	В	C	D	E	F	G	Н
text	numbers	MetacriticScoreByGame	vector	x	у	z	vector
Hello	1,2	Ori_and_the_Will_of_the_Wisps,8.9,OMORI,9.2		-1	-1	-1	
World	3,4,5	OneShot, 8.9, Katana_ZERO, 8.9		7	7	7	
Hello World	6	Danganronpa, 8.7, VA_11_Hall_A_Cyberpunk_Bartender_Action, 8.3		2415	124	6785	

3. Rules

3-1. Array, List, Dictionary

Arrays, lists, and dictionaries separate values with commas(,). At this time, it can be inconvenient to put all values in one cell.

To this end, we made it possible to put data into two or more cells consecutively.

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THE TWO	pictures	perow	DOTH TO ac	i ine same	e varues

J 12		-50 500	7 977								
4	A	В	С	D	Е	F	G	Н	B		
1	intArr	stringList	booleanB	y games A rr							
2	1,2,3	Hello	0.1, true	Ori_and_th	Ori_and_the_Will_of_the_Wisps, OMORI						
3	4,5,6	World	0.2, true	OneShot, k	OneShot, Katana_ZERO						
4	7,8,9	Hello, W o	r 0.3, false	Danganron	Danganronpa, VA_11_Hall_A_Cyberpunk_Bartender_Action						
5											

А	В	C	D	F	F	G	H	3]	J	К	L	N
intArr	intArr	stringList	stringList	booleanBy	booleanB	y booleanBy	gamesArr					
1,2	3,4			0.1, true			Ori_and_the	e_Will_of_t	:he_Wisps,	OMORI		
5,6	7	World		0.2, true	0.3, false		OneShot, Katana_ZERO					
8	9,10	Hello	World	0.4, true	0.5, false	0.6, false	Danganron	pa, VA_ 11	_Hall_A_Cy	berpunk_B	artender_Ad	ction
	5,6	1,2 3,4	1,2 3,4 5,6 7 World	1,2 3,4 5,6 7 World	1,2 3,4 0.1, true 5,6 7 World 0.2, true	1,2 3,4 0.1, true 5,6 7 World 0.2, true 0.3, false	1,2 3,4 0.1, true 5,6 7 World 0.2, true 0.3, false	intArr intArr stringList stringList booleanBy booleanBy gamesArr 1,2 3,4 0.1, true 0.3, false OneShot, k	intArr intArr stringList stringList booleanBy booleanBy gamesArr 1,2 3,4 0.1, true O.3, false OneShot, Katana_ZER	intArr intArr stringList stringList booleanBy booleanBy gamesArr 1,2 3,4 0.1, true 0.3, false OneShot, Katana_ZERO	intArr intArr stringList stringList booleanBy booleanBy gamesArr 1,2 3,4 0.1, true Ori_and_the_Will_of_the_Wisps, OMORI 5,6 7 World 0.2, true 0.3, false OneShot, Katana_ZERO	intArr intArr stringList stringList booleanBy booleanBy booleanBy gamesArr 1,2 3,4 0.1, true Ori_and_the_Will_of_the_Wisps, OMORI 5,6 7 World 0.2, true 0.3, false OneShot, Katana_ZERO

3-2. Nested Class

Nested classes put field names at the beginning and end. And in the meantime fill out the fields inside the class.

In case of a Vector3 type variable, first input the variable name, vector. And write the fields x, y, z of Vector3. And finally, write the variable name again.

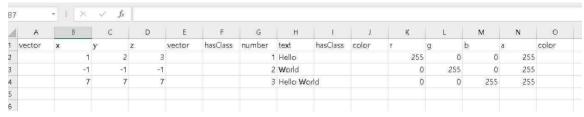
```
[Serializable]
참조 1개

Class HasClass

{
    [SerializeField] int number;
    [SerializeField] string text;
}

[Serializable]
참조 2개

Class BlogTest
{
    [SerializeField] Vector3 vector;
    [SerializeField] HasClass hasClass;
    [SerializeField] Color color;
}
```



The pictures below show examples of some classes.

load result



4. Precautions

4-1. Unsupported type

Unsupported types are all types except supported types.

CsvUtility supports byte, int, long, string, float, double, bool, enum and Array, List, Dictionary, class, and struct using them.

Also, data structures such as two-dimensional arrays are not supported.

4-2. When using a dictionary

If you use a dictionary, it is unconditional!! You have to assign it with new.

public Dictionary<T1, T2> dictionary = new Dictionary<T1, T2>(); Like this. In other words, it is the same as saying that you cannot use a dictionary in a struct.