GYGameplayEffectDataTable

Contents

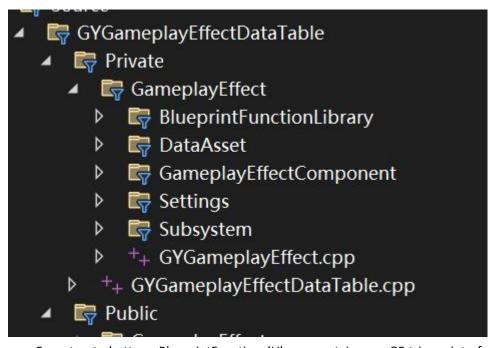
GYGameplayEffectDataTable	1
Introduction:	1
Plugin Directory:	
Use Flow:	
Custom DataTable:	
Summary:	
3uiiiilary:	=

Introduction:

The GYGameplayEffectDataTable plugin allows us to use GE through a DataTable. It also supports custom UGameplayEffect types, GE components, and DataTable types. Through the interface, we can easily trigger the effect of GE.

This is beneficial for GE's unified management, while also reducing the tedious process of creating GE blueprints repeatedly, and is more conducive to project maintenance.

Plugin Directory:



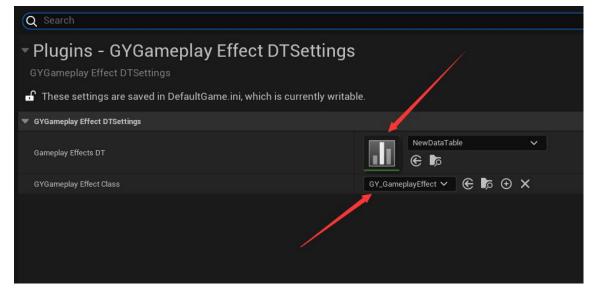
From top to bottom, BlueprintFunctionalLibrary contains our GE trigger interface and other

libraries. The DataAsset contains the structure of our GE's DataTable. GameplayEffectComponent stores the data of GE components. The Settings section is our project settings class. Subsystem is the manager class of our plugin.

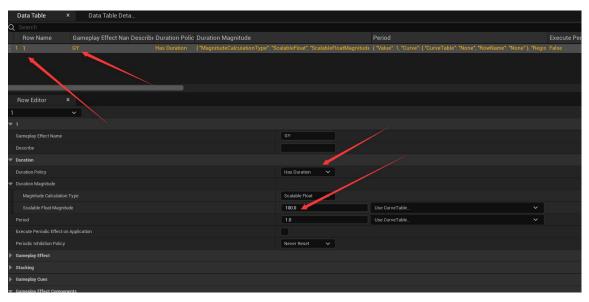
Use Flow:

```
| *
| */
| UCLASS()
| Class GY_API UGY_GameplayEffectSubsystem : public UGYGameplayEffectSubsystem
| GENERATED_BODY()
| private:
| virtual void Initialize (FSubsystemCollectionBase& Collection) override;
| virtual void PostInitGameplayEffect(uint8* GameplayEffectsRowDT, UGYGamepla
```

Firstly, we inherit UGYGameplayEffectSubsystem in our own project and generate a GE subsystem. Then open the editor to create a DataTable for FGY_GameplayEffectsDT.



Configure the DataTable into the project settings of the plugin.



Open the DataTable and configure them according to the arrows in the diagram, with RowName set to 1. RowName is the identifier that triggers this GE.

```
☐ FActiveGameplayEffectHandle UGYBlueprintFunctionLibrary::GYApplyGameplayEffectWithClass(AActor* Source, Target return UGYGameplayEffectBFL::GYApplyGameplayEffectWithClass<FGYGameplayEffectsDT>(Source, Target)
☐ FActiveGameplayEffectHandle UGYBlueprintFunctionLibrary::GYApplyGameplayEffect(AActor* Source, AActor* return UGYGameplayEffectBFL::GYApplyGameplayEffect<FGYGameplayEffectsDT>(Source, Target, Id, Lev
```

Encapsulate the UGYGameplayAffectBFL:: GYAppleGameplayEffect static template function in your own project library. Please note that FGYGameplayAffectsDT is of the DataTable type that we are using.



Then we can easily trigger our GE through the ID.

Custom DataTable:

Copy and paste all member variables from FGY_GameplayEffectsDT directly into a new DataTable class. The reason why inheritance is not necessary here is to ensure that the order of variables in the DataTable is consistent, and to ensure that the order of variables exported to Excel in the future is consistent. Of course, if you don't consider the aesthetics of variable properties, you can also directly inherit FGY GameplayEffectsDT.

The reason why it is not encapsulated as a # define macro here is that Unreal Engine's UHT will be earlier than C++preprocessing, which can cause Unreal Engine macros such as UPROPERTY to fail.

```
UPROPERTY (EditDefaultsOnly, BlueprintReadOnly, Category = GameplayEffectComponents)

UPROPERTY (EditDefaultsOnly, BlueprintReadOnly, Category = "GameplayEffectComponents")

TArray<FGY_TargetTagsGameplayECInfor> GETargetTagsGameplayEffectComponents")

TArray<FGY_TargetTagsGameplayECInfor> GETargetTagsGameplayEffectComponents;

UPROPERTY (EditDefaultsOnly, BlueprintReadOnly, Category = "GameplayEffectComponents;")

TArray<FGY_VelocityGameplayEffectComponentInfor> GEVelocityGameplayEffectComponents;

};
```

FGYGameplayEffectsDT is a custom DataTable created by me by copying and pasting FGY_GameplayEffectsDT, and adding my own custom GE component GEVelocityGameplayEffectComponents to it.

通过重写 UGYGameplayEffectSubsystem 中的 PostInitGameplayEffect 虚函数,我们可以处理我们自己的 DataTable 中自定义的数据。

By rewriting the PostInitGameplayEffect virtual function in UGYGameplayEffectSubsystem,

we can handle custom data in our own DataTable.

```
### CameplayEffectSubsystem::PostInitGameplayEffect(uint8* GameplayEffectsRowDT, UGYGameplayEffect* OutGameplayEffect, FName RowID)

Super::PostInitGameplayEffect(GameplayEffectsRowDT, OutGameplayEffect, RowID);

#### If (GameplayEffectsRowDT)

### RGYGameplayEffectsDT* GameplayEffectsDTRow = UGYGameplayEffectBFL::CastFStruct

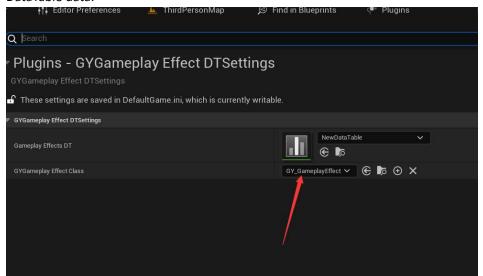
#### FGYGameplayEffectsDT* (GameplayEffectsDTRow)

### If (!GameplayEffectsDTRow)

### Add_GEVelocityGameplayEffectComponents(GameplayEffectsDTRow->GEVelocityGameplayEffectComponents, OutGameplayEffect):

##### Add_GEVelocityGameplayEffectComponents(GameplayEffectsDTRow->GEVelocityGameplayEffectComponents, OutGameplayEffect):
```

You can refer to my writing style and use GameplayEffectsRowDT to obtain our custom DataTable data.



By inheriting UGY_GameplayEffect, we can customize our UGYGameplayEffect type and configure it to the above image. The OutGameplayEffectt parameter passed into the PostInitGameplayEffect virtual function in UGYGameplayEffectSubsystem is our custom UGYGameplayEffect. Simple Cast can achieve custom logic processing.

Summary:

The plugin is completely free, and everyone is welcome to use and provide feedback.