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# Namespace InventorySystem

This is The Namespace for the InventorySystem, Assembly-CSharp

[InventorySystem.Data](#)

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[InventorySystem.Editor](#)

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[InventorySystem.Manager](#)

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This is a Namespace in InventorySystem Namespace, Assembly-CSharp

# Namespace InventorySystem.Data

## Classes

### [Inventory](#)

---

This Class is a Scriptable Object that stores the values from an inventory.

### [InventoryDictionary](#)

---

This Class is located in the model class and is the brain of that operates and stores the inventory at runtime.

### [InventoryItem](#)

---

This Class is the Item for the Inventory.

## Enums

### [InventoryType](#)

---

This Enum is used to determine how an Inventory should be Interacted with. To use this enum in UI Builder

### [SortByEnum](#)

---

This Enum is used to determine how an Inventory will be sorted. To use this enum in UI Builder

# Class Inventory

This Class is a Scriptable Object that stores the values from an inventory.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.ScriptableObject  
Inventory

Namespace: [InventorySystem.Data](#)  
Assembly: Assembly-CSharp.dll

## Syntax

```
[CreateAssetMenu]  
[Serializable]  
public class Inventory : ScriptableObject
```

## Fields

### inventoryGold

This Variables is the amount of gold that is held.

#### Declaration

```
public int inventoryGold
```

#### Field Value

TYPE	DESCRIPTION
System.Int32	

### inventoryID

This Variables is the Unique id for the inventory.

#### Declaration

```
public string inventoryID
```

#### Field Value

TYPE	DESCRIPTION
System.String	

### inventoryName

This Variables is the name that is used in te UI title.

Declaration

```
public string inventoryName
```

Field Value

TYPE	DESCRIPTION
System.String	

inventorySize

This Variables is the size of the inventory.

Declaration

```
public int inventorySize
```

Field Value

TYPE	DESCRIPTION
System.Int32	

inventoryType

This Variables is the type of inventory this is.

Declaration

```
public InventoryType inventoryType
```

Field Value

TYPE	DESCRIPTION
InventoryType	

## Properties

InventoryStorage

This property is for the inventoryStorage Variables when it is set it will Sort the list.

Declaration

```
public List<string> InventoryStorage { get; set; }
```

## Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

## Methods

### AddMoney(Int32)

This Method increases the inventoryGold variable with the param

#### Declaration

```
public void AddMoney(int amount)
```

#### Parameters

TYPE	NAME	DESCRIPTION
System.Int32	amount	amount to be added to the inventory.

### SaveStorage(List<String>)

This Method receives a param list of strings The Property InventoryStorage = the param list

#### Declaration

```
public void SaveStorage(List<string> storage)
```

#### Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<System.String>	storage	The Property InventoryStorage = This param

### SetData(Inventory)

This Method Populates the Inventory File with data from another Inventory File

#### Declaration

```
public void SetData(Inventory inventory)
```

## Parameters

Type	Name	Description
Inventory	inventory	This param Inventory will add it's contents to this Inventory

## SubMoney()

This Method sets the variable inventoryGold to 0;

### Declaration

```
public void SubMoney()
```

## SubMoney(Int32)

This Method decreases the inventoryGold variable with the param

### Declaration

```
public void SubMoney(int amount)
```

## Parameters

Type	Name	Description
System.Int32	amount	amount to be subtracted to the inventory.

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeTypeText\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Class InventoryDictionary

This Class is located in the model class and is the brain of that operates and stores the inventory at runtime.

## Inheritance

System.Object  
InventoryDictionary

Namespace: [InventorySystem.Data](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class InventoryDictionary
```

## Fields

### dictionary

This Variable is the Dictionary and it hold the int Keys & InventoryItem Values.

#### Declaration

```
public Dictionary<int, InventoryItem> dictionary
```

#### Field Value

TYPE	DESCRIPTION
System.Collections.Generic.Dictionary<System.Int32, <a href="#">InventoryItem</a> >	

## Methods

### AddItem(out List<Int32>, InventoryItem, Int32, Int32, Boolean)

This Method will try and add an item to the Dictionary.

#### Declaration

```
public bool AddItem(out List<int> keys, InventoryItem item, int size, int index = -1, bool isMerge = false)
```

#### Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<System.Int32>	keys	out the list of int keys that were changed.

<b>TYPE</b>	<b>NAME</b>	<b>DESCRIPTION</b>
InventoryItem	item	the item to be added to the Dictionary.
System.Int32	size	size determines how big the inventory is so not add beyond the set size of the inventory.
System.Int32	index	if index isn't -1 it will try adding the item in that dictionary key entry. else try the first available key entry.
System.Boolean	isMerge	if isMerge will check if the item will merge with any other of the item located in the Dictionary.

#### Returns

<b>TYPE</b>	<b>DESCRIPTION</b>
System.Boolean	return bool if item is added or merged.

### ConsolidateInventory(Int32)

This Method will Consolidate the items in the Inventory to the smallest number of stacks. return true when completed.

#### Declaration

```
public void ConsolidateInventory(int size)
```

#### Parameters

<b>TYPE</b>	<b>NAME</b>	<b>DESCRIPTION</b>
System.Int32	size	This Integer is the size of the inventory.

### ConvertDictionaryToStringList()

This Method will take all entries from the Dictionary and convert them to a string list. Format: "Key":"Item ID":"Item Current Stack". return list of sting for each of the entries in Dictionary.

#### Declaration

```
public List<string> ConvertDictionaryToStringList()
```

#### Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	The return is a list of strings from the dictionary.

## GenerateDictionary(List<String>)

This Method will Generate the dictionary from a list of strings.

### Declaration

```
public void GenerateDictionary(List<string> itemData)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<System.String>	itemData	This is a List of Strings.

## GetValue(String, Int32)

This Method will create a new InventoryItem from a string ID & string Count.

### Declaration

```
public InventoryItem GetValue(string id, int count = 1)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.String	id	the Item ID.
System.Int32	count	the amount if this item.

### Returns

TYPE	DESCRIPTION
InventoryItem	return InventoryItem that is created.

## MergeIntoInventory(InventoryItem, out List<Int32>)

This Method will merge the item param into the same items located in the Dictionary's values.

## Declaration

```
public bool MergeIntoInventory(InventoryItem item, out List<int> keys)
```

## Parameters

Type	Name	Description
InventoryItem	item	the item to be Merged into the Dictionary's entries.
System.Collections.Generic.List<System.Int32>	keys	out the list of int keys that were changed.

## Returns

Type	Description
System.Boolean	Return a bool if any items were affected.

## RemoveItem(Int32)

This Method will remove the the Item from dictionary key entry.

## Declaration

```
public void RemoveItem(int key)
```

## Parameters

Type	Name	Description
System.Int32	key	the key for the dictionary.

## ReorderDictionary()

This Method will reorder the Dictionary after it has been sorted. and Change it's keys.

## Declaration

```
public void ReorderDictionary()
```

## SortByAmount(Boolean)

This Method will sort the Dictionary by the amount of items it has. if isDescending is true it will sort by descending order. else by ascending order.

## Declaration

```
public void SortByAmount(bool isDescending = false)
```

## Parameters

Type	Name	Description
System.Boolean	isDescending	This is a Boolean that Determine whether to sort ascending or descending.

## SortByCost(Boolean)

This Method will sort the Dictionary by Item Cost. if isDescending is true it will sort by descending order. else by ascending order.

## Declaration

```
public void SortByCost(bool isDescending = false)
```

## Parameters

Type	Name	Description
System.Boolean	isDescending	This is a Boolean that Determine whether to sort ascending or descending.

## SortByName(Boolean)

This Method will sort the Dictionary by Item Name. if isDescending is true it will sort by descending order. else by ascending order.

## Declaration

```
public void SortByName(bool isDescending = false)
```

## Parameters

Type	Name	Description
System.Boolean	isDescending	This is a Boolean that Determine whether to sort ascending or descending.

## SortByType(Boolean)

This Method will sort the Dictionary by Item Type. if isDescending is true it will sort by descending order. else by ascending order.

## Declaration

```
public void SortByType(bool isDescending = false)
```

#### Parameters

Type	Name	Description
System.Boolean	isDescending	This is a Boolean that Determine whether to sort ascending or descending.

#### SortByWeight(Boolean)

This Method will sort the Dictionary by Item Weight. if isDescending is true it will sort by descending order. else by ascending order.

#### Declaration

```
public void SortByWeight(bool isDescending = false)
```

#### Parameters

Type	Name	Description
System.Boolean	isDescending	This is a Boolean that Determine whether to sort ascending or descending.

#### TryRemoveItem(Int32, out InventoryItem)

This Method will try and remove an item from the dictionary key entry.

#### Declaration

```
public bool TryRemoveItem(int key, out InventoryItem value)
```

#### Parameters

Type	Name	Description
System.Int32	key	the key for the dictionary.
InventoryItem	value	an out param of type InventoryItem.

#### Returns

Type	Description

TYPE	DESCRIPTION
System.Boolean	return true if the entry is remove or false if not.

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)  
[RichTextLowerCaseText\(Object\)](#)  
[RichText.BoldText\(Object\)](#)  
[RichText.ItalicText\(Object\)](#)  
[RichText.Text\(Object\)](#)  
[RichText.UnderLineText\(Object\)](#)  
[RichText.StrikeText\(Object\)](#)  
[RichText.SupText\(Object\)](#)  
[RichText.SubText\(Object\)](#)  
[RichText.PositionText\(Object, Single\)](#)  
[RichText.SizeTypeText\(Object, Int32\)](#)  
[RichText.ColoredText\(Object, String\)](#)  
[RichText.ColoredText\(Object, Color\)](#)

# Class InventoryItem

This Class is the Item for the Inventory.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.ScriptableObject  
InventoryItem

Namespace: [InventorySystem.Data](#)  
Assembly: Assembly-CSharp.dll

## Syntax

```
public class InventoryItem : ScriptableObject
```

## Fields

### canStack

This Variables determines if the item can be stacked.

#### Declaration

```
public bool canStack
```

#### Field Value

TYPE	DESCRIPTION
System.Boolean	

### itemCost

This Variables This cost of the item;

#### Declaration

```
public int itemCost
```

#### Field Value

TYPE	DESCRIPTION
System.Int32	

### itemCurrentStack

This Variables how many items are in this stack.

## Declaration

```
public int itemCurrentStack
```

## Field Value

TYPE	DESCRIPTION
System.Int32	

## itemDescription

This Variables The description of the item.

## Declaration

```
public string itemDescription
```

## Field Value

TYPE	DESCRIPTION
System.String	

## itemID

This Variables the ItemData's id.

## Declaration

```
public string itemID
```

## Field Value

TYPE	DESCRIPTION
System.String	

## itemImage

This Variables the image used by the UI Icon.

## Declaration

```
public Sprite itemImage
```

## Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
UnityEngine.Sprite	

## itemMaxStack

---

This Variables determines how may items can be placed into a stack.

### Declaration

```
public int itemMaxStack
```

### Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
System.Int32	

## itemName

---

This Variables the name of the item.

### Declaration

```
public string itemName
```

### Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
System.String	

## itemType

---

This Variables The ItemData's Type.

### Declaration

```
public ItemType itemType
```

### Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
ItemType	

## itemWeight

---

This Variables how Heavy the item is.

Declaration

```
public float itemWeight
```

Field Value

TYPE	DESCRIPTION
System.Single	

Methods

### [SetData\(InventoryItem\)](#)

This Method Populates the InventoryItem File with data from another InventoryItem File

Declaration

```
public void SetData(InventoryItem itemInventory)
```

Parameters

TYPE	NAME	DESCRIPTION
InventoryItem	itemInventory	

### [SetData\(ItemData, Int32\)](#)

This Method Populates the InventoryItem File with data from an ItemData File.

Declaration

```
public void SetData(ItemData itemData, int itemCurrentStack = 1)
```

Parameters

TYPE	NAME	DESCRIPTION
ItemData	itemData	
System.Int32	itemCurrentStack	

Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

RichText.BoldText(Object)  
RichText.ItalicText(Object)  
RichText.Text(Object)  
RichText.UnderLineText(Object)  
RichText.StrikeText(Object)  
RichText.SupText(Object)  
RichText.SubText(Object)  
RichText.PositionText(Object, Single)  
RichText.SizeTypeText(Object, Int32)  
RichText.ColoredText(Object, String)  
RichText.ColoredText(Object, Color)

# Enum InventoryType

This Enum is used to determine how an Inventory should be Interacted with. To use this enum in UI Builder

Namespace: [InventorySystem.Data](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public enum InventoryType
```

Remarks

[InventorySystem.Data.InventoryType](#), [Assembly-CSharp](#)

Fields

NAME	DESCRIPTION
Hotbar	
Loot	
None	
Player	
Storage	
Trader	

Extension Methods

[RichText.UpperCaseText\(\)](#)  
[RichText.LowerCaseText\(\)](#)  
[RichText.BoldText\(\)](#)  
[RichText.ItalicText\(\)](#)  
[RichText.Text\(\)](#)  
[RichText.UnderLineText\(\)](#)  
[RichText.StrikeText\(\)](#)  
[RichText.SupText\(\)](#)  
[RichText.SubText\(\)](#)  
[RichText.PositionText\(Single\)](#)  
[RichText.SizeType\(Int32\)](#)  
[RichText.ColoredText\(String\)](#)  
[RichText.ColoredText\(Color\)](#)

# Enum SortByEnum

This Enum is used to determine how an Inventory will be sorted. To use this enum in UI Builder

Namespace: [InventorySystem.Data](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public enum SortByEnum
```

Remarks

[InventorySystem.Data.SortByEnum](#), Assembly-CSharp

Fields

NAME	DESCRIPTION
None	
SortByAmount	
SortByCost	
SortByName	
SortByType	
SortByWeight	

Extension Methods

[RichText.UpperCaseText\(\)](#)  
[RichText.LowerCaseText\(\)](#)  
[RichText.BoldText\(\)](#)  
[RichText.ItalicText\(\)](#)  
[RichText.Text\(\)](#)  
[RichText.UnderLineText\(\)](#)  
[RichText.StrikeText\(\)](#)  
[RichText.SupText\(\)](#)  
[RichText.SubText\(\)](#)  
[RichText.PositionText\(Single\)](#)  
[RichText.SizeType\(Int32\)](#)  
[RichText.ColoredText\(String\)](#)  
[RichText.ColoredText\(Color\)](#)

# Namespace InventorySystem.Editor

## Classes

### [InventoryWindow](#)

---

This Class Is an Editor Window for the creation & editing of th inventory and it's content.

# Class InventoryWindow

This Class Is an Editor Window for the creation & editing of th inventory and it's content.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.ScriptableObject  
UnityEditor.EditorWindow  
InventoryWindow

Namespace: [InventorySystem.Editor](#)  
Assembly: Assembly-CSharp-Editor.dll

## Syntax

```
public class InventoryWindow : EditorWindow
```

## Properties

### SelectedInventory

This Property is connected to the selectedInventory Variable. When set if selectedInventory is different from the incoming value then set the value & refresh the UI.

#### Declaration

```
public Inventory SelectedInventory { get; }
```

#### Property Value

Type	Description
Inventory	

## Methods

### AddItemData(ItemData)

This Method will add a new ItemData File to items list Then Add that ItemData to the UI.

#### Declaration

```
public void AddItemData(ItemData item)
```

#### Parameters

Type	Name	Description
ItemData	item	

## AddToDropdown(String)

---

This Method will add the Inventory file to the dropdown field.

### Declaration

```
public void AddToDropdown(string text)
```

### Parameters

Type	Name	Description
System.String	text	

## ChangeItemData(ItemData)

---

This Method gets called from an event when the OpenItemUpdate clicks the update or Duplacate button

### Declaration

```
public void ChangeItemData(ItemData newItem)
```

### Parameters

Type	Name	Description
ItemData	newItem	

## CloseWindow()

---

This Static Method will Close the InventoryWindow. The window can be open either by double clicking an Inventory file, Though the UnityEditor Toolbar: Tools/DownUnder Studios/Inventory System/Tools/Close Inventory Editor Or by the shortcut key CTRI + SHIFT + ALT + O

### Declaration

```
[MenuItem("Tools/DownUnder Studios/Inventory System/Tools/Close Inventory Editor %#&O")]
public static void CloseWindow()
```

## CreateGUI()

---

This Method is a unity method that will be run when the window is created.

### Declaration

```
public void CreateGUI()
```

## GenerateItemDataFiles()

This Method will get the ItemData file from the Resources folder and add them to the items list. Then Create UI for each ItemData.

### Declaration

```
public void GenerateItemDataFiles()
```

## GetInventoryFiles()

This Method will get all Inventory files in the Resources.

### Declaration

```
public void GetInventoryFiles()
```

## NewInventory(String)

This Method will create a new Inventory File And add it to the *inventories* List & Dropdown Field

### Declaration

```
public void NewInventory(string name)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.String	name	

## OnOpenAsset(Int32, Int32)

This Static Method will open the InventoryWindow when an Inventory file is double clicked.

### Declaration

```
[OnOpenAsset]
public static bool OnOpenAsset(int instanceID, int line)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Int32	instanceID	not used.

TYPE	NAME	DESCRIPTION
System.Int32	line	not used.

Returns

TYPE	DESCRIPTION
System.Boolean	

## OpenCreateItem()

This Method will open the CreateItem Window to create a new ItemData.

Declaration

```
public void OpenCreateItem()
```

## OpenEditItem(ItemData)

This Method will open the EditItem Window to edit the selected ItemData.

Declaration

```
public void OpenEditItem(ItemData item)
```

Parameters

TYPE	NAME	DESCRIPTION
ItemData	item	

## OpenWindow()

This Static Method will open the InventoryWindow. The window can be open either by double clicking an Inventory file, Though the UnityEditor Toolbar: Tools/DownUnder Studios/Inventory System/Tools/Open Inventory Editor Or by the shortcut key CTRL + SHIFT + ALT + I

Declaration

```
[MenuItem("Tools/DownUnder Studios/Inventory System/Tools/Open Inventory Editor %#&I")]
public static void OpenWindow()
```

## RefreshUI()

This Method will Update the UI when their are changes made.

Declaration

```
public void RefreshUI()
```

## Save()

This Method will Save the inventory's changes. Only if the editor is not in play mode.

### Declaration

```
public void Save()
```

## SetWindowSize(Int32, Int32)

This Method will set the Editor Window min & max size to a fix size. With both params being the width & height respectively.

### Declaration

```
public void SetWindowSize(int width, int height)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Int32	width	The width of the Window.
System.Int32	height	The height of the Window.

## UpdateUI()

This Method is a unity method, it will check if SelectedInventory is null or not. If not null set the displays to flex and window size to 1200-500 else set the displays to none and window size to 570-30

### Declaration

```
public void UpdateUI()
```

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeType\(Object, Int32\)](#)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Namespace InventorySystem.Manager

## Classes

### [GameManager](#)

---

This Class is the Game Manager and it manages the Save, Load & Restock Events

### [InputManager](#)

---

This Class

### [InventorySystemManager](#)

---

This Class is the Manager for the Inventory System.

### [MouseManager](#)

---

This Class is the Mouse Manager for the Inventory System.

### [UIControllerManager](#)

---

This Class is the Controller of the Inventory System's MVC.

### [UIModelManager](#)

---

This Class is the model for the Inventory System's MVC.

### [UIViewManager](#)

---

This Class is the View of the Inventory System's MVC.

## Delegates

### [GameManager.LoadEvent<T>](#)

---

This Variable is the delegate for the Loading of inventories.

### [GameManager.Restock](#)

---

This Variable is the delegate for the trader restock.

### [GameManager.SaveEvent<T>](#)

---

This Variable is the delegate for the saving of inventories.

### [InventorySystemManager.UIChanged](#)

---

This Variable is the delegate for updating UIs when changed.

#### [MouseManager.KeyPressed](#)

---

This Variable is a delegate for the KeyDownEvent.

#### [MouseManager.ScreenClick](#)

---

This Variable is a delegate for the MouseDownEvent.

#### [UIControllerManager.ControllerUpdate](#)

---

This Variable is the delegate for the Controller Update.

# Class GameManager

This Class is the Game Manager and it manages the Save, Load & Restock Events

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
GameManager

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class GameManager : MonoBehaviour
```

## Fields

### instance

This Variable is the Singleton Instance of this Class.

#### Declaration

```
public static GameManager instance
```

### Field Value

TYPE	DESCRIPTION
<a href="#">GameManager</a>	

### is3D

This Variable will be used to select 3D or 2D

#### Declaration

```
public bool is3D
```

### Field Value

TYPE	DESCRIPTION
System.Boolean	

### isLogger

This Variable will be used to allow the Logger.

Declaration

```
public bool isLogger
```

Field Value

TYPE	DESCRIPTION
System.Boolean	

player

This Variable is the player gameobject.

Declaration

```
public GameObject player
```

Field Value

TYPE	DESCRIPTION
UnityEngine.GameObject	

restocktimer

This Variable will be the Timer that will activate the onRestock event.

Declaration

```
public Timer restocktimer
```

Field Value

TYPE	DESCRIPTION
Timer	

restockTimer

This Variable is the set time between trader inventories restocking.

Declaration

```
public float restockTimer
```

## Field Value

Type	Description
System.Single	

## Methods

### Awake()

This Method is a unity method, and will set the instance, find the player and set the Timer for the restock.

#### Declaration

```
public void Awake()
```

### LoadInventories(List<Inventory>)

This Method will send the inventories to the subscriber so they can find their inventory. Call this Method when loading

#### Declaration

```
public void LoadInventories(List<Inventory> inventories)
```

#### Parameters

Type	Name	Description
System.Collections.Generic.List<Inventory>	inventories	

### SaveInventories()

This Method will save the Inventories that have subscribed to onSaveInventory to a list. Call this Method when saving

#### Declaration

```
public List<Inventory> SaveInventories()
```

#### Returns

Type	Description
System.Collections.Generic.List<Inventory>	Return a list of all the inventories that have subscribed to onSaveInventory

## Events

## onLoadInventory

---

This Variable is called when loading all inventories

Declaration

```
public static event GameManager.LoadEvent<Inventory> onLoadInventory
```

Event Type

TYPE	DESCRIPTION
GameManager.LoadEvent<Inventory>	

## onRestock

---

This Variable is the event for the Traders to subscribe to for restock.

Declaration

```
public static event GameManager.Restock onRestock
```

Event Type

TYPE	DESCRIPTION
GameManager.Restock	

## onSaveInventory

---

This Variable is called when saving all inventories

Declaration

```
public static event GameManager.SaveEvent<Inventory> onSaveInventory
```

Event Type

TYPE	DESCRIPTION
GameManager.SaveEvent<Inventory>	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)  
[RichText.LowerCaseText\(Object\)](#)  
[RichText.BoldText\(Object\)](#)  
[RichText.ItalicText\(Object\)](#)  
[RichText.Text\(Object\)](#)

RichText.UnderLineText(Object)  
RichText.StrikeText(Object)  
RichText.SupText(Object)  
RichText.SubText(Object)  
RichText.PositionText(Object, Single)  
RichText.SizeType(Object, Int32)  
RichText.ColoredText(Object, String)  
RichText.ColoredText(Object, Color)

# Delegate GameManager.LoadEvent<T>

This Variable is the delegate for the Loading of inventories.

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public delegate void LoadEvent<T>(List<T> inventory);
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<T>	inventory	

Type Parameters

NAME	DESCRIPTION
T	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeType\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Delegate GameManager.Restock

This Variable is the delegate for the trader restock.

Namespace: `InventorySystem.Manager`

Assembly: `Assembly-CSharp.dll`

Syntax

```
public delegate void Restock();
```

## Extension Methods

`RichText.UpperCaseText(Object)`

`RichText.LowerCaseText(Object)`

`RichText.BoldText(Object)`

`RichText.ItalicText(Object)`

`RichText.Text(Object)`

`RichText.UnderLineText(Object)`

`RichText.StrikeText(Object)`

`RichText.SupText(Object)`

`RichText.SubText(Object)`

`RichText.PositionText(Object, Single)`

`RichText.SizeType(Object, Int32)`

`RichText.ColoredText(Object, String)`

`RichText.ColoredText(Object, Color)`

# Delegate GameManager.SaveEvent<T>

This Variable is the delegate for the saving of inventories.

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public delegate T SaveEvent<T>();
```

Returns

TYPE	DESCRIPTION
T	

Type Parameters

NAME	DESCRIPTION
T	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeTypeText\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Class InputManager

This Class

Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine.MonoBehaviour  
InputManager

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public class InputManager : MonoBehaviour
```

## Fields

otherController

This Variable is the Other's Controller.

Declaration

```
public UIControllerManager otherController
```

Field Value

TYPE	DESCRIPTION
<a href="#">UIControllerManager</a>	

playerController

This Variable is the player's Controller.

Declaration

```
public UIControllerManager playerController
```

Field Value

TYPE	DESCRIPTION
<a href="#">UIControllerManager</a>	

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeTypeText(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class InventorySystemManager

This Class is the Manager for the Inventory System.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
InventorySystemManager

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class InventorySystemManager : MonoBehaviour
```

## Fields

### instance

This Variable is the Singleton Instance of this class.

## Declaration

```
public static InventorySystemManager instance
```

## Field Value

TYPE	DESCRIPTION
<a href="#">InventorySystemManager</a>	

## Methods

### CloseInventory()

This Method close both other & player inventories if they are open.

## Declaration

```
public void CloseInventory()
```

### GetController(InventoryType, out UIControllerManager)

This Method will find an The controller based on the type.

## Declaration

```
public bool GetController(InventoryType type, out UIControllerManager Controller)
```

#### Parameters

Type	Name	Description
InventoryType	type	the inventory type
UIControllerManager	Controller	out UIControllerManager if found.

#### Returns

Type	Description
System.Boolean	Return true if the controller isn't null.

### OpenInventory(UIModelManager, UIViewManager)

This Method will add the model & view to the other's inventory. And open both other & player inventories.

#### Declaration

```
public void OpenInventory(UIModelManager model = null, UIViewManager view = null)
```

#### Parameters

Type	Name	Description
UIModelManager	model	the model that will be applied to the Other Controller.
UIViewManager	view	the view that will be applied to the Other Controller.

### TryGetHotbarController(out UIControllerManager)

This Method will try to get the Hotbar Controller

#### Declaration

```
public bool TryGetHotbarController(out UIControllerManager hotbarController)
```

#### Parameters

<b>TYPE</b>	<b>NAME</b>	<b>DESCRIPTION</b>
UIControllerManager	hotbarController	out UIControllerManager if found.

Returns

<b>TYPE</b>	<b>DESCRIPTION</b>
System.Boolean	Return true if the hotbar controller is found.

## TryGetMouseManager(out MouseManager)

This Method will try to get the Mouse Manager

Declaration

```
public bool TryGetMouseManager(out MouseManager mouseManager)
```

Parameters

<b>TYPE</b>	<b>NAME</b>	<b>DESCRIPTION</b>
MouseManager	mouseManager	out MouseManager if found.

Returns

<b>TYPE</b>	<b>DESCRIPTION</b>
System.Boolean	Return true if the Mouse Manager is found.

## TryGetOtherController(out UIControllerManager)

This Method will try to get the Other Controller

Declaration

```
public bool TryGetOtherController(out UIControllerManager otherController)
```

Parameters

<b>TYPE</b>	<b>NAME</b>	<b>DESCRIPTION</b>
UIControllerManager	otherController	out UIControllerManager if found.

## Returns

Type	Description
System.Boolean	Return true if the other controller is found.

## TryGetPlayerController(out UIControllerManager)

This Method will try to get the Player Controller

### Declaration

```
public bool TryGetPlayerController(out UIControllerManager playerController)
```

### Parameters

Type	Name	Description
UIControllerManager	playerController	out UIControllerManager if found.

## Returns

Type	Description
System.Boolean	Return true if the player controller is found.

## UpdateUI()

This Method when run will run the onUIChanged event.

### Declaration

```
public void UpdateUI()
```

## Events

### onUIChanged

This Variable is called when UIs are changed.

### Declaration

```
public static event InventorySystemManager.UIChanged onUIChanged
```

### Event Type

Type	Description
InventorySystemManager.UIChanged	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)  
[RichText.LowerCaseText\(Object\)](#)  
[RichText.BoldText\(Object\)](#)  
[RichText.ItalicText\(Object\)](#)  
[RichText.Text\(Object\)](#)  
[RichText.UnderLineText\(Object\)](#)  
[RichText.StrikeText\(Object\)](#)  
[RichText.SupText\(Object\)](#)  
[RichText.SubText\(Object\)](#)  
[RichText.PositionText\(Object, Single\)](#)  
[RichText.SizeTypeText\(Object, Int32\)](#)  
[RichText.ColoredText\(Object, String\)](#)  
[RichText.ColoredText\(Object, Color\)](#)

# Delegate InventorySystemManager.UIChanged

This Variable is the delegate for updating UIs when changed.

Namespace: `InventorySystem.Manager`

Assembly: `Assembly-CSharp.dll`

Syntax

```
public delegate void UIChanged();
```

## Extension Methods

`RichText.UpperCaseText(Object)`

`RichText.LowerCaseText(Object)`

`RichText.BoldText(Object)`

`RichText.ItalicText(Object)`

`RichText.Text(Object)`

`RichText.UnderLineText(Object)`

`RichText.StrikeText(Object)`

`RichText.SupText(Object)`

`RichText.SubText(Object)`

`RichText.PositionText(Object, Single)`

`RichText.SizeType(Object, Int32)`

`RichText.ColoredText(Object, String)`

`RichText.ColoredText(Object, Color)`

# Class MouseManager

This Class is the Mouse Manager for the Inventory System.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
MouseManager

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class MouseManager : MonoBehaviour
```

## Fields

### icon

This Variable is the Icon that is from an inventory picked.

#### Declaration

```
public Icon icon
```

#### Field Value

TYPE	DESCRIPTION
Icon	

### item

This Variable is the InventoryItem that is from an inventory picked.

#### Declaration

```
public InventoryItem item
```

#### Field Value

TYPE	DESCRIPTION
InventoryItem	

### key

This Variable is the Interger Key that is from an inventory picked.

Declaration

```
public int key
```

Field Value

TYPE	DESCRIPTION
System.Int32	

## pickupParent

This Variable is the VisualElement Parent of the pickups.

Declaration

```
public VisualElement pickupParent
```

Field Value

TYPE	DESCRIPTION
UnityEngine.UIElements.VisualElement	

## Properties

### MouseController

This Method will find an The controller based on the type.

Declaration

```
public UIControllerManager MouseController { get; }
```

Property Value

TYPE	DESCRIPTION
UIControllerManager	

## Methods

AddItem(Icon, Int32, InventoryType, InventoryItem)

This Method will pick up the Item Icon from the inventory.

#### Declaration

```
public void AddItem(Icon icon, int key, InventoryType type, InventoryItem item)
```

#### Parameters

TYPE	NAME	DESCRIPTION
Icon	icon	the Icon that will be picked up and attached to the mouse.
System.Int32	key	the key of the slot that will be used to return the item back to the inventory.
InventoryType	type	the type of inventory that will be used to get the MouseController.
InventoryItem	item	the Item that will be picked out of the inventory.

### AddItemDataToPlayerInventory(InventoryItem)

This Method will add an item to the player or hotbar inventory.

#### Declaration

```
public bool AddItemDataToPlayerInventory(InventoryItem item = null)
```

#### Parameters

TYPE	NAME	DESCRIPTION
InventoryItem	item	This param will be the item added to the inventory. if null then create a random item.

#### Returns

TYPE	DESCRIPTION
System.Boolean	Return true if the item was added to inventory.

### ClearDialogBox()

#### Declaration

```
public void ClearDialogBox()
```

## CloseMouse()

---

This Method will return the Item to it's Inventory. and RemoveItem Method.

### Declaration

```
public void CloseMouse()
```

## OpenItemDetailScreen(Slot, InventoryItem)

---

This Method will display up the DetailScreen for the item in the inventory.

### Declaration

```
public void OpenItemDetailScreen(Slot slot, InventoryItem item)
```

### Parameters

TYPE	NAME	DESCRIPTION
Slot	slot	This param will be used to set the location of the Detail screen spawn point.
InventoryItem	item	This param will provide the data to be displayed.

## RemoveItem()

---

This Method will remove the Item Icon from the mouse.

### Declaration

```
public void RemoveItem()
```

## UpdateCount()

---

This Method will update the Icon attached to the mouse or remove the item from the mouse if the amount is 0.

### Declaration

```
public void UpdateCount()
```

## Events

### onKeyPressed

---

This Variable is the KeyPressed event is to identify when any key is pressed.

### Declaration

```
public event MouseManager.KeyPressed onKeyPressed
```

#### Event Type

TYPE	DESCRIPTION
MouseManager.KeyPressed	

#### onScreenClick

This Variable is the ScreenClick event is to identify when the mouse interacts with the screen.

#### Declaration

```
public event MouseManager.ScreenClick onScreenClick
```

#### Event Type

TYPE	DESCRIPTION
MouseManager.ScreenClick	

## Extension Methods

RichText.UpperCaseText(Object)  
RichText.LowerCaseText(Object)  
RichText.BoldText(Object)  
RichText.ItalicText(Object)  
RichText.Text(Object)  
RichText.UnderLineText(Object)  
RichText.StrikeText(Object)  
RichText.SupText(Object)  
RichText.SubText(Object)  
RichText.PositionText(Object, Single)  
RichText.SizeType(Object, Int32)  
RichText.ColoredText(Object, String)  
RichText.ColoredText(Object, Color)

# Delegate MouseManager.KeyPressed

This Variable is a delegate for the KeyDownEvent.

Namespace: `InventorySystem.Manager`

Assembly: Assembly-CSharp.dll

Syntax

```
public delegate void KeyPressed(KeyDownEvent e);
```

Parameters

Type	Name	Description
UnityEngine.UIElements.KeyDownEvent	e	

## Extension Methods

`RichText.UpperCaseText(Object)`

`RichText.LowerCaseText(Object)`

`RichText.BoldText(Object)`

`RichText.ItalicText(Object)`

`RichText.Text(Object)`

`RichText.UnderLineText(Object)`

`RichText.StrikeText(Object)`

`RichText.SupText(Object)`

`RichText.SubText(Object)`

`RichText.PositionText(Object, Single)`

`RichText.SizeType(Object, Int32)`

`RichText.ColoredText(Object, String)`

`RichText.ColoredText(Object, Color)`

# Delegate MouseManager.ScreenClick

This Variable is a delegate for the MouseDownEvent.

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public delegate void ScreenClick(MouseDownEvent e);
```

Parameters

TYPE	NAME	DESCRIPTION
UnityEngine.UIElements.MouseDownEvent	e	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeType\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Class UIControllerManager

This Class is the Controller of the Inventory System's MVC.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
UIControllerManager

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class UIControllerManager : MonoBehaviour
```

## Properties

### GetElementNames

This Property will get the list of element names from model.

#### Declaration

```
public List<string> GetElementNames { get; }
```

#### Property Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

### GetInventoryGold

This Property will get the Gold Amount from the Inventory.

#### Declaration

```
public int GetInventoryGold { get; }
```

#### Property Value

TYPE	DESCRIPTION
System.Int32	

### GetInventoryName

This Property will get the Name of the Inventory.

Declaration

```
public string GetInventoryName { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

### GetInventorySize

This Property will get the Size of the Inventory.

Declaration

```
public int GetInventorySize { get; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

### GetInventoryType

This Property will get the Type of Inventory.

Declaration

```
public InventoryType GetInventoryType { get; }
```

Property Value

TYPE	DESCRIPTION
InventoryType	

### HasModel

This Property will check if a model is attached.

Declaration

```
public bool HasModel { get; }
```

## Property Value

TYPE	DESCRIPTION
System.Boolean	

## HotbarController

---

This property is for the hotbar Controller.

### Declaration

```
public UIControllerManager HotbarController { get; }
```

## Property Value

TYPE	DESCRIPTION
UIControllerManager	

## IsOpen

---

This Property will check if the UI is open.

### Declaration

```
public bool IsOpen { get; }
```

## Property Value

TYPE	DESCRIPTION
System.Boolean	

## OtherController

---

This property is for the other Controller.

### Declaration

```
public UIControllerManager OtherController { get; }
```

## Property Value

TYPE	DESCRIPTION
UIControllerManager	

## PlayerController

This property is for the player Controller.

### Declaration

```
public UIControllerManager PlayerController { get; }
```

### Property Value

TYPE	DESCRIPTION
UIControllerManager	

## Methods

### AddInventoryItem(out List<Int32>, InventoryItem, Int32, Boolean)

This Method will add the InventoryItem in the dictionary.

### Declaration

```
public bool AddInventoryItem(out List<int> keys, InventoryItem item, int index = -1, bool isMerge = false)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<System.Int32>	keys	out the list of int keys that were changed.
InventoryItem	item	the item to be added to the Dictionary.
System.Int32	index	if index isn't -1 it will try adding the item in that dictionary key entry. else try the first available key entry.
System.Boolean	isMerge	if isMerge will check if the item will merge with any other of the item located in the Dictionary.

### Returns

TYPE	DESCRIPTION
System.Boolean	return bool if item is added or merged in to the Dictionary.

## ClearSlot(Int32)

---

This Method allow for the clearing of an icon form a slot based on it's key.

Declaration

```
public void ClearSlot(int key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	key	The Slot's at key.

## Close()

---

This Method will Close Inventory UI and save. if Other Controller is the Loot type and is empty or can Destroy then run Destroy method from model. else RefreshUI() Method. if Other Controller set model & view to null.

Declaration

```
public void Close()
```

## FindInventoryItem(Int32)

---

This Method will find the InventoryItem in the dictionary's key.

Declaration

```
public InventoryItem FindInventoryItem(int key)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	key	The Slot's at key.

Returns

TYPE	DESCRIPTION
InventoryItem	Return the InventoryItem from key.

## LootAll()

---

This Method will loot all of the items from Other's Inventory to the Player's Inventory.

## Declaration

```
public void LootAll()
```

## LootGold()

This Method will transfer the gold from Other's Inventory to the Player's Inventory.

## Declaration

```
public void LootGold()
```

## Open(UIModelManager, UIViewManager)

This Method will Open Inventory UI and save. It will run ApplyConnections. then check if IsOpen & model.canOpen. if true then Genreate the Dictionary in model. And run Display in View ot true.

## Declaration

```
public void Open(UIModelManager newModel = null, UIViewManager newView = null)
```

## Parameters

TYPE	NAME	DESCRIPTION
UIModelManager	newModel	the New UIModelManager being added (can be null).
UIViewManager	newView	the New UIViewManager being added (can be null).

## RefreshUI()

This Method will be called after each interaction. if hasChanged Property is true then run onControllerUpdate event. And set hasChanged to false.

## Declaration

```
public void RefreshUI()
```

## RemoveInventoryItem(Int32)

This Method will remove the InventoryItem in the dictionary's key.

## Declaration

```
public void RemoveInventoryItem(int key)
```

## Parameters

TYPE	NAME	DESCRIPTION
System.Int32	key	The Slot's at key.

## ReturnItem()

This Method will Return the item from the mouse to the inventory.

### Declaration

```
public void ReturnItem()
```

## SaveInventory()

This Method will up date the InventoryStorage from the Dictionary.

### Declaration

```
public void SaveInventory()
```

## SellMisc()

This Method will Sell all of the Misc type items from Player's Inventory to the Trader's Inventory.

### Declaration

```
public void SellMisc()
```

## SetDisplayState(Boolean)

This Method will update the IsOpen Property

### Declaration

```
public void SetDisplayState(bool state)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	state	

## SlotInteraction(Slot, MouseDownEvent)

This Methid is called when the palyer interacts with a Slot.

### Declaration

```
public void SlotInteraction(Slot slot, MouseDownEvent e)
```

#### Parameters

Type	Name	Description
Slot	slot	This is the Slot that was clicked.
UnityEngine.UIElements.MouseDownEvent	e	This Param is a MouseDownEvent event and is need to determine if left or right click from mouse.

### Sortby(SortByEnum)

This Method will Sort the inventory data then update the UI's Slots.

#### Declaration

```
public void Sortby(SortByEnum sortBy)
```

#### Parameters

Type	Name	Description
SortByEnum	sortBy	

### TryFindInventoryItem(Int32, out InventoryItem)

This Method will try to find the InventoryItem in the dictionary's key.

#### Declaration

```
public bool TryFindInventoryItem(int key, out InventoryItem slotItem)
```

#### Parameters

Type	Name	Description
System.Int32	key	The Slot's at key.
InventoryItem	slotItem	out the InventoryItem that is removed.

#### Returns

TYPE	DESCRIPTION
System.Boolean	Return if InventoryItem is located.

## UpdateListSlots(List<Int32>)

This Method will update a list of slots.

### Declaration

```
public void UpdateListSlots(List<int> keys)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<System.Int32>	keys	

## UpdateSlot(Int32, InventoryItem)

This Method will update a slot.

### Declaration

```
public void UpdateSlot(int key, InventoryItem item)
```

### Parameters

TYPE	NAME	DESCRIPTION
System.Int32	key	The Slot's at key.
InventoryItem	item	the item that is going to update the slot.

## UpdateUI()

This Method will update elements from the View.

### Declaration

```
public void UpdateUI()
```

## Events

## onControllerUpdate

This variable is the event that will be run whenever there is a change made.

### Declaration

```
[SerializeField]  
public event UIControllerManager.ControllerUpdate onControllerUpdate
```

### Event Type

Type	Description
UIControllerManager.ControllerUpdate	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)  
[RichText.LowerCaseText\(Object\)](#)  
[RichText.BoldText\(Object\)](#)  
[RichText.ItalicText\(Object\)](#)  
[RichText.Text\(Object\)](#)  
[RichText.UnderLineText\(Object\)](#)  
[RichText.StrikeText\(Object\)](#)  
[RichText.SupText\(Object\)](#)  
[RichText.SubText\(Object\)](#)  
[RichText.PositionText\(Object, Single\)](#)  
[RichText.SizeType\(Object, Int32\)](#)  
[RichText.ColoredText\(Object, String\)](#)  
[RichText.ColoredText\(Object, Color\)](#)

# Delegate UIControllerManager.ControllerUpdate

This Variable is the delegate for the Controller Update.

Namespace: `InventorySystem.Manager`

Assembly: `Assembly-CSharp.dll`

Syntax

```
public delegate void ControllerUpdate();
```

## Extension Methods

`RichText.UpperCaseText(Object)`

`RichText.LowerCaseText(Object)`

`RichText.BoldText(Object)`

`RichText.ItalicText(Object)`

`RichText.Text(Object)`

`RichText.UnderLineText(Object)`

`RichText.StrikeText(Object)`

`RichText.SupText(Object)`

`RichText.SubText(Object)`

`RichText.PositionText(Object, Single)`

`RichText.SizeType(Object, Int32)`

`RichText.ColoredText(Object, String)`

`RichText.ColoredText(Object, Color)`

# Class UIModelManager

This Class is the model for the Inventory System's MVC.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine.MonoBehaviour  
UIModelManager

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
[RequireComponent(typeof(UIDocument))]  
public class UIModelManager : MonoBehaviour
```

## Fields

### CanDestroy

This Variable if true then Destroy Method can be run if isOpen Variable is false.

#### Declaration

```
public bool CanDestroy
```

#### Field Value

TYPE	DESCRIPTION
System.Boolean	

### canOpen

This Variable if true then the UI can open.

#### Declaration

```
public bool canOpen
```

#### Field Value

TYPE	DESCRIPTION
System.Boolean	

## elementNames

---

This Variable is a list of strings that are the names of the UI elements that will be accessed in the View.

### Declaration

```
public List<string> elementNames
```

### Field Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

## inventory

---

This Variable is the Inventory that is used in the UI.

### Declaration

```
public Inventory inventory
```

### Field Value

TYPE	DESCRIPTION
Inventory	

## inventoryDictionary

---

This Variable is the Dictionary for the UI.

### Declaration

```
public InventoryDictionary inventoryDictionary
```

### Field Value

TYPE	DESCRIPTION
InventoryDictionary	

## isOpen

---

This Variable if true then the UI is open.

### Declaration

```
public bool isOpen
```

## Field Value

Type	Description
System.Boolean	

## Methods

### AddInventory(Inventory)

This Method will add an Inventory to this model.

#### Declaration

```
public void AddInventory(Inventory inventory)
```

#### Parameters

Type	Name	Description
Inventory	inventory	the Inventory that will be added to this model.

### Destroy()

This Method will Destroy parent gameobject.

#### Declaration

```
public void Destroy()
```

### GenerateDictionary()

This Method will Generate the Dictionary for the Model.

#### Declaration

```
public void GenerateDictionary()
```

### InventorySpace(out Int32, InventoryItem)

This Method will check for space in the inventory.

#### Declaration

```
public bool InventorySpace(out int space, InventoryItem item)
```

#### Parameters

Type	Name	Description
System.Int32	space	out will return at the end the amount of the Item param can be added to the Dictionary.
InventoryItem	item	the InventoryItem that will be checked against to find the amount of items that can be added to the Dictionary.

Returns

Type	Description
System.Boolean	Return true if there is space in the inventory for the item.

## SortBy(SortByEnum, Boolean)

This Method will sort the dictionary by SortByEnum.

Declaration

```
public bool SortBy(SortByEnum sortBy, bool isDescending = false)
```

Parameters

Type	Name	Description
SortByEnum	sortBy	This param that is what will sorted by.
System.Boolean	isDescending	if the sorting is in ascending or descending.

Returns

Type	Description
System.Boolean	Return true so the view can update the slots.

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeTypeText(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class UIVIEWMANAGER

This Class is the View of the Inventory System's MVC.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine.MonoBehaviour  
UIViewManager

Namespace: [InventorySystem.Manager](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class UIVIEWMANAGER : MonoBehaviour
```

## Fields

### currentSortOrder

This Variable is the current Sorting order.

#### Declaration

```
public SortByEnum currentSortOrder
```

#### Field Value

TYPE	DESCRIPTION
SortByEnum	

### isDescending

This Variable is used to determine the sorting.

#### Declaration

```
public bool isDescending
```

#### Field Value

TYPE	DESCRIPTION
System.Boolean	

## Methods

### Display(Boolean, UIControllerManager)

This Method is to set the View on and off. if State is true then update the View. else close down.

#### Declaration

```
public void Display(bool State, UIControllerManager controller)
```

#### Parameters

TYPE	NAME	DESCRIPTION
System.Boolean	State	This param will turn the view on or off.
UIControllerManager	controller	the Controller that is connected.

### GetSlotFromKey(Int32)

This Method will get the Slot from a key.

#### Declaration

```
public Slot GetSlotFromKey(int key)
```

#### Parameters

TYPE	NAME	DESCRIPTION
System.Int32	key	the key of the slot & Dictionary.

#### Returns

TYPE	DESCRIPTION
Slot	Return the Slot at the key.

### TryGetSlotFromKey(Int32, out Slot)

This Method will try ands get the Slot from a key.

#### Declaration

```
public bool TryGetSlotFromKey(int key, out Slot slot)
```

## Parameters

Type	Name	Description
System.Int32	key	the key of the slot & Dictionary.
Slot	slot	out return This param at the end.

## Returns

Type	Description
System.Boolean	return true if the Slot was found.

## UpdateAllSlots(UIControllerManager)

This Method will Update all slots.

## Declaration

```
public void UpdateAllSlots(UIControllerManager controller)
```

## Parameters

Type	Name	Description
UIControllerManager	controller	the Controller that is connected.

## UpdateElement(UIControllerManager)

This Method will update elements from the UIList with data from the Controller.

## Declaration

```
public virtual void UpdateElement(UIControllerManager controller)
```

## Parameters

Type	Name	Description
UIControllerManager	controller	the Controller that is connected.

## UpdateListSlots(UIControllerManager, List<Int32>)

This Method will update all the slots from a lost of keys.

#### Declaration

```
public void UpdateListSlots(UIControllerManager controller, List<int> keys)
```

#### Parameters

TYPE	NAME	DESCRIPTION
UIControllerManager	controller	the Controller that is connected.
System.Collections.Generic.List<System.Int32>	keys	This param are the keys of the slots & Dictionary.

### UpdateSlot(Int32, InventoryItem)

This Method will remove the Slot from the slotList at the key param with the InventoryItem param.

#### Declaration

```
public void UpdateSlot(int key, InventoryItem item)
```

#### Parameters

TYPE	NAME	DESCRIPTION
System.Int32	key	the key of the slot & Dictionary.
InventoryItem	item	the item that will be used.

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeType\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Namespace Script

This is a Namespace in InventorySystem Namespace, Assembly-CSharp

[InventorySystem.Script.Characters](#)

---

[InventorySystem.Script.Static](#)

---

[InventorySystem.Script.UI](#)

---

[InventorySystem.Script.World](#)

---

# Namespace InventorySystem.Script.Characters

## Classes

### [Enemy](#)

---

This Class is the Enemy Script

### [Player](#)

---

This Abstract Class is the parent script that's applied to a player Character

### [Player2D](#)

---

This Class is the script applied to a 2D player Character

### [Player3D](#)

---

This Class is the script applied to a 3D player Character

## Delegates

### [Enemy.DeathEvent](#)

---

This Variable is a delegate for when an enemy is killed.

# Class Enemy

This Class is the Enemy Script

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
Enemy

Namespace: [InventorySystem.Script.Characters](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
[RequireComponent(typeof(LootInteraction), typeof(Animator))]  
public class Enemy : MonoBehaviour
```

## Fields

### health

This Variable is the heath of the enemy.

#### Declaration

```
public int health
```

#### Field Value

TYPE	DESCRIPTION
System.Int32	

### isDead

This Variable if true will stop Death Method from being run.

#### Declaration

```
public bool isDead
```

#### Field Value

TYPE	DESCRIPTION
System.Boolean	

## Properties

### Health

This Property gets health & sets health, if health == 0 & isDead == false then set isDead to true & run Death Method.

#### Declaration

```
public int Health { get; set; }
```

#### Property Value

TYPE	DESCRIPTION
System.Int32	

## Events

### onDeath

This Variable is the DeathEvent that can be subscribe too. When run will run all method subscribed to it.

#### Declaration

```
public event Enemy.DeathEvent onDeath
```

#### Event Type

TYPE	DESCRIPTION
Enemy.DeathEvent	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeType\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Delegate Enemy.DeathEvent

This Variable is a delegate for when an enemy is killed.

Namespace: `InventorySystem.Script.Characters`

Assembly: `Assembly-CSharp.dll`

Syntax

```
public delegate void DeathEvent();
```

## Extension Methods

`RichText.UpperCaseText(Object)`

`RichText.LowerCaseText(Object)`

`RichText.BoldText(Object)`

`RichText.ItalicText(Object)`

`RichText.Text(Object)`

`RichText.UnderLineText(Object)`

`RichText.StrikeText(Object)`

`RichText.SupText(Object)`

`RichText.SubText(Object)`

`RichText.PositionText(Object, Single)`

`RichText.SizeType(Object, Int32)`

`RichText.ColoredText(Object, String)`

`RichText.ColoredText(Object, Color)`

# Class Player

This Abstract Class is the parent script that's applied to a player Character

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
Player  
**Player2D**  
**Player3D**

Namespace: **InventorySystem.Script.Characters**

Assembly: Assembly-CSharp.dll

## Syntax

```
public abstract class Player : MonoBehaviour
```

## Fields

### canMove

This Variable if true will allow movement.

#### Declaration

```
public bool canMove
```

#### Field Value

TYPE	DESCRIPTION
System.Boolean	

### moveSpeed

This Variable is for the movement speed of the player.

#### Declaration

```
public float moveSpeed
```

#### Field Value

TYPE	DESCRIPTION
System.Single	

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeTypeText(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class Player2D

This Class is the script applied to a 2D player Character

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
[Player](#)  
Player2D

Namespace: [InventorySystem.Script.Characters](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class Player2D : Player
```

## Fields

### animator

This Variable is to allow animation of the player.

#### Declaration

```
public Animator animator
```

#### Field Value

TYPE	DESCRIPTION
UnityEngine.Animator	

### rb

This Variable is for the RidgidBody2D.

#### Declaration

```
public Rigidbody2D rb
```

#### Field Value

TYPE	DESCRIPTION
UnityEngine.Rigidbody2D	

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeTypeText(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class Player3D

This Class is the script applied to a 3D player Character

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
[Player](#)  
Player3D

Namespace: [InventorySystem.Script.Characters](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class Player3D : Player
```

## Fields

### controller

This Variable is the Character Controller.

#### Declaration

```
public CharacterController controller
```

#### Field Value

TYPE	DESCRIPTION
UnityEngine.CharacterController	

### playerHand

This Variable is the gameobject for the hand. When item is equipped it will be apply to the hand.

#### Declaration

```
public GameObject playerHand
```

#### Field Value

TYPE	DESCRIPTION
UnityEngine.GameObject	

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeTypeText(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Namespace InventorySystem.Script.Static

## Classes

### [GenerateData](#)

---

This Static Class is used to Generate Inventories & InventoryItems from ItemData files.

# Class GenerateData

This Static Class is used to Generate Inventories & InventoryItems from ItemData files.

## Inheritance

System.Object

GenerateData

Namespace: [InventorySystem.Script.Static](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public static class GenerateData
```

## Methods

### CreateInventory(out Inventory, Int32, List<ItemData>, Int32, Boolean)

This Method will create an Inventory add items to an inventory's storageData.

#### Declaration

```
public static void CreateInventory(out Inventory inventory, int slotLine, List<ItemData> itemDataList, int inventoryGold, bool isRandom = false)
```

#### Parameters

Type	Name	Description
Inventory	inventory	out Inventory file after it is created.
System.Int32	slotLine	how many slot will the UI have per row. so the inventory's can be determined along with number of items to be added.
System.Collections.Generic.List<ItemData>	itemDataList	list of ItemDat files that will be added to the inventory. between(1 - Max Stack).
System.Int32	inventoryGold	the amount of gold the inventory will have or will be the max random range if isRandom is true.
System.Boolean	isRandom	if true each item will be given a random key. else 1 by 1.

### CreateInventoryItem(String, Int32)

This Method will create an InventoryItem and add an amount to it.

## Declaration

```
public static InventoryItem CreateInventoryItem(string targetItemID, int amount = 0)
```

## Parameters

TYPE	NAME	DESCRIPTION
System.String	targetItemID	the Item ID.
System.Int32	amount	the amount to be added to the InventoryItem.

## Returns

TYPE	DESCRIPTION
InventoryItem	Return the InventoryItem that was created.

## CreateRandomInventoryItem()

This Method will create a random InventoryItem and add a random amount to it.

## Declaration

```
public static InventoryItem CreateRandomInventoryItem()
```

## Returns

TYPE	DESCRIPTION
InventoryItem	Return the InventoryItem that was created.

## FindItemData(String)

This Method will located the ItemData by ID.

## Declaration

```
public static ItemData FindItemData(string targetItemID)
```

## Parameters

<b>TYPE</b>	<b>NAME</b>	<b>DESCRIPTION</b>
System.String	targetItemID	

Returns

<b>TYPE</b>	<b>DESCRIPTION</b>
ItemData	Return ItemData file after it is found.

## GetItems()

---

This Method will get all ItemData from the Resources folder and add them to the items list.

Declaration

```
public static void GetItems()
```

## TryFindItemData(String, out ItemData)

---

This Method will try to located the ItemData by ID.

Declaration

```
public static bool TryFindItemData(string targetItemID, out ItemData itemData)
```

Parameters

<b>TYPE</b>	<b>NAME</b>	<b>DESCRIPTION</b>
System.String	targetItemID	the ID of the ItemData to be found.
ItemData	itemData	out ItemData file after it is found.

Returns

<b>TYPE</b>	<b>DESCRIPTION</b>
System.Boolean	Return true if ItemData file is found.

# Namespace InventorySystem.Script.UI

## Classes

### [InventoryInteraction](#)

---

This abstract Class is the parent of the Loot, Storage, Trader. Interaction classes

### [LootInteraction](#)

---

This Class will be attached to Enemy gameobject that contains an Enemy script.

### [StorageInteraction](#)

---

This Class is added to any gameobject to be used as a storage.

### [TraderInteraction](#)

---

This Class will be attached to a gameobject that will be the Trader.

# Class InventoryInteraction

This abstract Class is the parent of the Loot, Storage, Trader. Interaction classes

## Inheritance

```
System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine	MonoBehaviour  
InventoryInteraction  
LootInteraction  
StorageInteraction  
TraderInteraction
```

Namespace: [InventorySystem.Script.UI](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public abstract class InventoryInteraction : MonoBehaviour
```

## Fields

### generateInventory

This Variable is used for initialising the timer & inventory. GenerateInventory class is used to open and close Inventory UI for Other Controller Don't set as this is should be located on the Prefab.

#### Declaration

```
protected GenerateInventory generateInventory
```

#### Field Value

TYPE	DESCRIPTION
GenerateInventory	

### gold

This Variable is used as a max range for how much gold will be added to a new inventory. No gold for Hotbar or Storage types : unless you change the storage type to hold gold.

#### Declaration

```
[SerializeField]  
protected int gold
```

#### Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
System.Int32	

## inventory

---

This Variable is Optional. If their is no Inventory file then it will create one with the itemIDs list. If itemIDs is empty then the inventory will be empty. If Inventory file is created then it will be temporary. suitable for loot.

### Declaration

```
[SerializeField]
protected Inventory inventory
```

### Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
Inventory	

## inventoryID

---

This Variable is the Id that will be used when you load your game

### Declaration

```
[SerializeField]
protected static string inventoryID
```

### Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
System.String	

## inventoryName

---

This Variable is the name that will be apply to the inventory on creation

### Declaration

```
[SerializeField]
protected string inventoryName
```

### Field Value

<b>TYPE</b>	<b>DESCRIPTION</b>
System.String	

## isRandom

---

This Variable is used to randomise the which slots and amount of gold

### Declaration

```
[SerializeField]  
protected bool isRandom
```

### Field Value

TYPE	DESCRIPTION
System.Boolean	

## itemIDs

---

This Variable list contains ItemData files that will be used when generating a new Inventory

### Declaration

```
[SerializeField]  
protected List<ItemData> itemIDs
```

### Field Value

TYPE	DESCRIPTION
System.Collections.Generic.List<ItemData>	

## prefab2D

---

This Variable is the prefab for 2D game. Apply a prefab from inspector.

### Declaration

```
[SerializeField]  
protected GameObject prefab2D
```

### Field Value

TYPE	DESCRIPTION
UnityEngine.GameObject	

## prefab3D

---

This Variable is the prefab for 3D game. Apply a prefab from inspector.

### Declaration

```
[SerializeField]
protected GameObject prefab3D
```

#### Field Value

TYPE	DESCRIPTION
UnityEngine.GameObject	

#### slotLine

This Variable is used to determine how many slot an inventory has per line. The Inventory-Screen.uxml supports 8 slots in each row.

#### Declaration

```
protected int slotLine
```

#### Field Value

TYPE	DESCRIPTION
System.Int32	

#### time

This Variable is the time for the timer used for loot decay timer. Set this Value to -1 when you don't want the Loot types to decay(Destroy)

#### Declaration

```
[SerializeField]
protected int time
```

#### Field Value

TYPE	DESCRIPTION
System.Int32	

#### timer

This Variable is the timer used for Loot and determines when to decay(Destroy)

#### Declaration

```
protected Timer timer
```

## Field Value

Type	Description
Timer	

## Properties

### NewID

This property Give a new ID for Inventory.

#### Declaration

```
public string NewID { get; }
```

#### Property Value

Type	Description
System.String	

## Methods

### InitInventory()

This Method will create a child GameObject from the lop Prefab and Initialise the scripts attached.

#### Declaration

```
public void InitInventory()
```

### Load(List<Inventory>)

This Method load your Inventory.

#### Declaration

```
public virtual void Load(List<Inventory> inventories)
```

#### Parameters

Type	Name	Description
System.Collections.Generic.List<Inventory>	inventories	

### OnDisable()

This Method is the Unity OnDisable.

Declaration

```
public virtual void OnDisable()
```

OnEnable()

This Method is the Unity OnEnable.

Declaration

```
public virtual void OnEnable()
```

Save()

This Method Save your Inventory.

Declaration

```
public virtual Inventory Save()
```

Returns

Type	Description
Inventory	

Start()

This Method is the Unity Start.

Declaration

```
public virtual void Start()
```

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeType\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Class LootInteraction

This Class will be attached to Enemy gameobject that contains an Enemy script.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
[InventoryInteraction](#)  
LootInteraction

Namespace: [InventorySystem.Script.UI](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class LootInteraction : InventoryInteraction
```

## Methods

### OnDisable()

This Method is a unity method, and will remove InitInventory Method to the onDeath event in the Enemy Script.

#### Declaration

```
public override void OnDisable()
```

#### Overrides

[InventoryInteraction.OnDisable\(\)](#)

### OnEnable()

This Method is a unity method, and will remove InitInventory Method to the onDeath event in the Enemy Script.

#### Declaration

```
public override void OnEnable()
```

#### Overrides

[InventoryInteraction.OnEnable\(\)](#)

### Start()

This Method is a unity method, and will setup the Inventory & get Enemy Script attached to this gameobject.

#### Declaration

```
public override void Start()
```

## Overrides

[InventoryInteraction.Start\(\)](#)

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeTypeText\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Class StorageInteraction

This Class is added to any gameobject to be used as a storage.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
[InventoryInteraction](#)  
StorageInteraction

Namespace: [InventorySystem.Script.UI](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class StorageInteraction : InventoryInteraction
```

## Methods

### Start()

This Method is a unity method, and will setup the Inventory & InitInventory Method.

#### Declaration

```
public override void Start()
```

#### Overrides

[InventoryInteraction.Start\(\)](#)

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)  
[RichText.LowerCaseText\(Object\)](#)  
[RichText.BoldText\(Object\)](#)  
[RichText.ItalicText\(Object\)](#)  
[RichText.Text\(Object\)](#)  
[RichText.UnderLineText\(Object\)](#)  
[RichText.StrikeText\(Object\)](#)  
[RichText.SupText\(Object\)](#)  
[RichText.SubText\(Object\)](#)  
[RichText.PositionText\(Object, Single\)](#)  
[RichText.SizeType\(Object, Int32\)](#)  
[RichText.ColoredText\(Object, String\)](#)  
[RichText.ColoredText\(Object, Color\)](#)

# Class TraderInteraction

This Class will be attached to a gameobject that will be the Trader.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
[InventoryInteraction](#)  
TraderInteraction

Namespace: [InventorySystem.Script.UI](#)  
Assembly: Assembly-CSharp.dll

## Syntax

```
public class TraderInteraction : InventoryInteraction
```

## Methods

### OnDisable()

This Method is a unity method, and will remove StartCoroutine for Restock from generateInventory Variable to the onRestock event in the GameManager.

#### Declaration

```
public override void OnDisable()
```

#### Overrides

[InventoryInteraction.OnDisable\(\)](#)

### OnEnable()

This Method is a unity method, and will add StartCoroutine for Restock from generateInventory Variable to the onRestock event in the GameManager.

#### Declaration

```
public override void OnEnable()
```

#### Overrides

[InventoryInteraction.OnEnable\(\)](#)

### Start()

This Method is a unity method, and will setup the Inventory & InitInventory Method.

## Declaration

```
public override void Start()
```

## Overrides

[InventoryInteraction.Start\(\)](#)

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichTextLowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeTypeText\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)

# Namespace InventorySystem.Script.World

## Classes

### [ConsumableHotbarItem](#)

---

This Class is attached to a gameobject prefab and when the mouse is click will consume 1 of the item.

### [DroppedItem](#)

---

This Class is a sub class of WorldItem and is apply to a prefab for any item in the world that can be picked up.

### [GenerateInventory](#)

---

This Class Is located on the prefabs that will be Instantiated by the InventoryInteraction classes.

### [Hotbar](#)

---

This Class is attached to the hotbar UI and will be the way the player interacts with the hotbar beyond the Controller.

### [HotbarItem](#)

---

This Class

### [WeaponHotbarItem](#)

---

This Class is a sub class of HotbarItem and Implaments IWeapon and is attached to any weapon.

### [WorldItem](#)

---

This abstract Class is the root of the WorldItem scripts that are attached to any Item that will inhabit your game.

## Delegates

### [WorldItem.UseItem](#)

---

This delegate is to be used by any subclass that needs an event.

# Class ConsumableHotbarItem

This Class is attached to a gameobject prefab and when the mouse is click will consume 1 of the item.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
[WorldItem](#)  
[HotbarItem](#)  
ConsumableHotbarItem

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class ConsumableHotbarItem : HotbarItem
```

## Properties

### Amount

This Property get the amount Variable. and sets amount to value;

#### Declaration

```
public int Amount { get; set; }
```

#### Property Value

TYPE	DESCRIPTION
System.Int32	

## Methods

### Consume()

This Method

#### Declaration

```
public void Consume()
```

### OnDisable()

This Method is a unity method, and will remove Consume Method to the onUseItem event.

## Declaration

```
public void OnDisable()
```

## OnEnable()

---

This Method is a unity method, and will add Consume Method to the onUseItem event.

## Declaration

```
public void OnEnable()
```

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeType(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class DroppedItem

This Class is a sub class of WorldItem and is apply to a prefab for any item in the world that can be picked up.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine.MonoBehaviour  
[WorldItem](#)  
[DroppedItem](#)

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class DroppedItem : WorldItem, IPickUp
```

## Properties

### canPickUp

This variable if true will all this item to be picked up.

#### Declaration

```
public bool canPickUp { get; set; }
```

#### Property Value

TYPE	DESCRIPTION
System.Boolean	

## Methods

### Pickup()

This Method will add this item to the players inventory.

#### Declaration

```
public void Pickup()
```

## Implements

[IPickUp](#)

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeTypeText(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class GenerateInventory

This Class Is located on the prefabs that will be Instantiated by the InventoryInteraction classes.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
GenerateInventory

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
[RequireComponent(typeof(UIDocument))]  
[RequireComponent(typeof(UIModelManager), typeof(UIViewManager))]  
public class GenerateInventory : MonoBehaviour
```

## Methods

### CloseInventory()

This Method will Close both Player & Other Inventories.

#### Declaration

```
public void CloseInventory()
```

### Decay()

This Method will run Destroy in the Model Class or set CanDestroy to true;

#### Declaration

```
public void Decay()
```

### Init(Inventory)

This Method will initialise the inventory and data with the model.

#### Declaration

```
public void Init(Inventory inventory)
```

## Parameters

TYPE	NAME	DESCRIPTION
Inventory	inventory	

## OpenInventory()

---

This Method will Open both Player & Other Inventories. And add the Model & View to Other's Controller.

### Declaration

```
public void OpenInventory()
```

## Restock()

---

This Method is a Coroutine that will restock the attached Inventory.

### Declaration

```
public IEnumerator Restock()
```

### Returns

TYPE	DESCRIPTION
System.Collections.IEnumerator	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)  
[RichText.LowerCaseText\(Object\)](#)  
[RichText.BoldText\(Object\)](#)  
[RichText.ItalicText\(Object\)](#)  
[RichText.Text\(Object\)](#)  
[RichText.UnderLineText\(Object\)](#)  
[RichText.StrikeText\(Object\)](#)  
[RichText.SupText\(Object\)](#)  
[RichText.SubText\(Object\)](#)  
[RichText.PositionText\(Object, Single\)](#)  
[RichText.SizeType\(Object, Int32\)](#)  
[RichText.ColoredText\(Object, String\)](#)  
[RichText.ColoredText\(Object, Color\)](#)

# Class Hotbar

This Class is attached to the hotbar UI and will be the way the player interacts with the hotbar beyond the Controller.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
Hotbar

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
[RequireComponent(typeof(UIControllerManager))]  
public class Hotbar : MonoBehaviour
```

## Properties

### CurrentSlot

This property will get currentSelect Variable & if currentSelect isn't value then set currentSelect to value and run SelectItem Method.

#### Declaration

```
public int CurrentSlot { get; }
```

#### Property Value

TYPE	DESCRIPTION
System.Int32	

### HotbarItem

This property will get hotbarItem Variable & if hotbarItem isn't null then run Destroy method then check if different then set hotbarItem to value.

#### Declaration

```
public GameObject HotbarItem { get; }
```

#### Property Value

TYPE	DESCRIPTION
UnityEngine.GameObject	

## SelectedItem

---

This property will get selectedItem Variable & if selectedItem isn't value then set selectedItem to value and run EquipItem Method.

### Declaration

```
public InventoryItem SelectedItem { get; }
```

### Property Value

TYPE	DESCRIPTION
InventoryItem	

## Methods

### FixedUpdate()

---

This Method is a unity method, and is used to set the CurrentSlot property from the mouse scroll.

### Declaration

```
public void FixedUpdate()
```

### Start()

---

This Method is a unity method, and on start it will try and get mouse. If it does then add ClickMouseButton Method to the mouse onScreenClick event. And add SlotNumber Method to the mouse onKeyPressed event. then run SelectItem Method.

### Declaration

```
public void Start()
```

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

RichText.SizeTypeText(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class HotbarItem

This Class

Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine.MonoBehaviour  
[WorldItem](#)  
[HotbarItem](#)  
[ConsumableHotbarItem](#)  
[WeaponHotbarItem](#)

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public class HotbarItem : WorldItem
```

## Properties

canUse

This Variable if true will allow onUseItem to be run.

Declaration

```
public bool canUse { get; set; }
```

Property Value

Type	Description
System.Boolean	

## Methods

Use()

This Method will run the onUseItem event.

Declaration

```
public void Use()
```

## Events

## onUseItem

---

This Variable is the event that can be subscribed to. When run it will run any methods that have subscribed.

### Declaration

```
public event WorldItem.UseItem onUseItem
```

### Event Type

TYPE	DESCRIPTION
WorldItem.UseItem	

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)  
[RichText.LowerCaseText\(Object\)](#)  
[RichText.BoldText\(Object\)](#)  
[RichText.ItalicText\(Object\)](#)  
[RichText.Text\(Object\)](#)  
[RichText.UnderLineText\(Object\)](#)  
[RichText.StrikeText\(Object\)](#)  
[RichText.SupText\(Object\)](#)  
[RichText.SubText\(Object\)](#)  
[RichText.PositionText\(Object, Single\)](#)  
[RichText.SizeTypeText\(Object, Int32\)](#)  
[RichText.ColoredText\(Object, String\)](#)  
[RichText.ColoredText\(Object, Color\)](#)

# Class WeaponHotbarItem

This Class is a sub class of HotbarItem and Implements IWeapon and is attached to any weapon.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
[WorldItem](#)  
[HotbarItem](#)  
WeaponHotbarItem

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
public class WeaponHotbarItem : HotbarItem
```

## Properties

### canAttack

This Property if true will allow the item can Attack.

#### Declaration

```
public bool canAttack { get; set; }
```

#### Property Value

TYPE	DESCRIPTION
System.Boolean	

### canDefend

This Property if true will allow the item can Defend.

#### Declaration

```
public bool canDefend { get; set; }
```

#### Property Value

TYPE	DESCRIPTION
System.Boolean	

## canParry

---

This Property if true will allow the item can Parry.

### Declaration

```
public bool canParry { get; set; }
```

### Property Value

TYPE	DESCRIPTION
System.Boolean	

## State

---

This Property get weaponState Variable & set weaponState as value.

### Declaration

```
public WeaponState State { get; set; }
```

### Property Value

TYPE	DESCRIPTION
WeaponState	

## Methods

### Attack()

---

This Method will set the state of the weapon to Attack if the state is in idle.

### Declaration

```
public void Attack()
```

### Defend()

---

This Method will set the state of the weapon to Defend if the state is in idle.

### Declaration

```
public void Defend()
```

### Idle()

---

This Method will return the weapon back to the idle state. Have this Run in the animation event for the Attack animation.

Declaration

```
public void Idle()
```

## OnDisable()

---

This Method is a unity method, and will remove SetWeaponState Method to the onUseItem event.

Declaration

```
public void OnDisable()
```

## OnEnable()

---

This Method is a unity method, and will Add SetWeaponState Method to the onUseItem event.

Declaration

```
public void OnEnable()
```

## Parry()

---

This Method will set the state of the weapon to Parry if the state is in idle.

Declaration

```
public void Parry()
```

## SetWeaponState()

---

This Method is will choice which of the 4 states to enter.

Declaration

```
public void SetWeaponState()
```

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeType(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Class WorldItem

This abstract Class is the root of the WorldItem scripts that are attached to any Item that will inhabit your game.

## Inheritance

System.Object  
UnityEngine.Object  
UnityEngine.Component  
UnityEngine.Behaviour  
UnityEngine MonoBehaviour  
WorldItem  
[DroppedItem](#)  
[HotbarItem](#)

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

## Syntax

```
[RequireComponent(typeof(Animator))]  
public abstract class WorldItem : MonoBehaviour
```

## Fields

### animator

This Variable is the Animator for any animations that you require.

#### Declaration

```
public Animator animator
```

#### Field Value

TYPE	DESCRIPTION
UnityEngine.Animator	

### item

This Variable is the ItemData that this gameobject is created from.

#### Declaration

```
public ItemData item
```

#### Field Value

Type	Description
ItemData	

## Methods

### Destroy()

---

This Method will Destroy this Gameobject.

#### Declaration

```
public void Destroy()
```

## Extension Methods

RichText.UpperCaseText(Object)

RichText.LowerCaseText(Object)

RichText.BoldText(Object)

RichText.ItalicText(Object)

RichText.Text(Object)

RichText.UnderLineText(Object)

RichText.StrikeText(Object)

RichText.SupText(Object)

RichText.SubText(Object)

RichText.PositionText(Object, Single)

RichText.SizeType(Object, Int32)

RichText.ColoredText(Object, String)

RichText.ColoredText(Object, Color)

# Delegate WorldItem.UseItem

This delegate is to be used by any subclass that needs an event.

Namespace: [InventorySystem.Script.World](#)

Assembly: Assembly-CSharp.dll

Syntax

```
public delegate void UseItem();
```

## Extension Methods

[RichText.UpperCaseText\(Object\)](#)

[RichText.LowerCaseText\(Object\)](#)

[RichText.BoldText\(Object\)](#)

[RichText.ItalicText\(Object\)](#)

[RichText.Text\(Object\)](#)

[RichText.UnderLineText\(Object\)](#)

[RichText.StrikeText\(Object\)](#)

[RichText.SupText\(Object\)](#)

[RichText.SubText\(Object\)](#)

[RichText.PositionText\(Object, Single\)](#)

[RichText.SizeType\(Object, Int32\)](#)

[RichText.ColoredText\(Object, String\)](#)

[RichText.ColoredText\(Object, Color\)](#)