

MULTIPLAYER READY INVENTORY & BUILD SYSTEM

System is mainly designed for 3D games

- I don't recommend changing scripts that are in the package, because they will be overwritten on updating to new version / reimporting
- After reloading scripts you have to reenter play mode for package to work correctly
- Right after package was successfully imported you have to reopen unity so script templates works correctly

Table of contents

[Exceptions](#)

[Scene setup](#)

[Inventory \(player\) setup](#)

[Hotbar](#)

[Items](#)

[Inventory Menu](#)

[Creating Pages](#)

[Item Equipping](#)

[Interactions](#)

[Collectible items](#)

[Harvestable objects](#)

[Effects](#)

[Inventory Prefabs](#)

[Crafting](#)

[Shop](#)

[Skills](#)

[Build system](#)

[Creating buildings](#)

[Interactable buildings](#)

[Save and load system](#)

[Custom data](#)

[PlayersData](#)

Exceptions

- Stacking items with durability (`maxDurability > 0`) is not supported
- You can't have multiple equipable slots with same equip position on one page
- You can't have more than one same inventory displayers of one type onto one page (example: you can't have two inventory slots displayers on one page) (you can't display one slot multiple times on one page)

Scene setup

- Your scene needs InventoryGameManager assigned on any of your gameobject (that won't be destroyed or disabled in your scene)

Inventory (player) setup

- Your player has to have InventoryCore assigned on himself
- Add Inventory.cs and set up

Hotbar

- Create slot prefab or use already created one (don't forget to assign Slot.cs onto root of the prefab)
- Create new object and use it for hotbar slots and selected background only
- Put Slot prefab under this object as many times as you want and assign them to hotBarSlots in Inventory.cs

Items

- Create new item (Create >> InventorySystem >> Item)
- Set up your new item as you like (if you hover over variable in inspector it will show you tooltip)
- Item categories
 - Create new category (Create >> ...) and set it up
 - Assign it into CategoriesHandler (All handlers are located at "Assets/Essentials") or update it (Click get categories button)
 - Now you can select it in any category dropdown
- Item Rarities
 - Basically same as categories, but you are creating ItemRarity and assigning it into ItemRaritiesHandler
- Equip Positions
 - Basically same as categories, more onto this [here](#)
- Currencies
 - Again ... same as categories ...
- Picking up items
 - Add PickupableItem.cs onto gameobject with colliders
 - More on interactions [here](#)

Inventory Menu

- Add InventoryMenu.cs onto your player object and set it up
- Setup button spawning

Creating Pages

- Create new object (child of assigned inventory) and assign InventoryPage.cs
- Now you can add any InventoryPageContent under this object
- You can have only one of each SlotsDisplay type on one page !

Item Equipping

- Create EquipPosition scriptable object and assign it into handler
- Add new item into EquipTransforms array in Inventory.cs and setup
- Now set up SlotsDisplay for EquipPositions

Interactions

- Add InteractionsHandler.cs onto your player and setup
- Interactable objects
 - Just assign any class onto GameObject with colliders that has implemented IInteractable interface
 - Or you can create new interactable object through create asset menu (C# templates >> NewInteractableObject)

Collectible items

- Creating collectible item
 - Assign CollectibleItemsManager onto InventoryGameManager object and set up
 - Assign CollectibleItemsHolder onto your player and setup
 - Create CollectibleItem scriptable object and set up
 - Assign CollectibleItemHolder onto collectible object and set up

Harvestable objects

- You have to have InteractionsHandler on your Player
- Assign HarvestableObject onto any object

Effects

- Add EffectsHandler onto your player
- Create new script that inherits from Effect.cs and override voids that you need
- Assign new effect into EffectsDatabase

Inventory Prefabs

- Editing native PrefabSpawner
 - Create custom prefabSpawner (C# Templates >> CustomPrefabsSpawner)
 - For updating prefabs that you have created call them directly like this:

```
InventoryPrefabsSpawner.(spawner as CustomSpawner).SpawnCustomPrefab();
```

- Or create static void and call it like this:

```
CustomSpawner.SpawnCustomPrefab();
```

- Editing PrefabUpdater
 - Same as PrefabSpawner, but instead you work with PrefabUpdater and InventoryPrefabsUpdater (C# Templates >> CustomPrefabsUpdater)

Crafting

- Assign Crafting onto your player
- Create new CraftingRecipe scriptable object and set up
- Now you can use it in CraftingMenu for example

Shop

- Assign Shop onto your player
- Currencies
 - Create new Currency scriptable object and assign it into CurrenciesHandler
 - Tip: use TMP_Sprite to display coin image in text ([documentation](#))
- Now you can use it in ShopMenu for example

Skills

- Assign Skills onto your player
- Create new Skill scriptable object
- Now you can use things like SkillsMenu

Build system

- Assign BuilderManager onto your game manager object
- Assign Builder onto your player

Creating buildings

- Create new prefab of your building
- Assign Building.cs onto your prefab and set it up

Interactable buildings

- Assign ActionBuilding.cs (including classes that inherits from this class) and set it up
- ActionBuildings does not inherits from Building.cs, therefore can't be used for building placement by itself (you have to add Building.cs onto them as well)

Save and load system

- Assign SaveAndLoadSystem.cs onto your game manager object

Custom data

- Create new class that will hold your data
- Create new class that inherits from DefaultDataLoader or create new via (C# Templates >> CustomDataLoader)

```
namespace InventorySystem.SaveAndLoadSystem_  
{  
    public class CustomDataLoader: DefaultDataLoader  
    {  
        [InitializeOnLoadMethod]  
        private static void M()  
        {  
            DataLoader.loader = new CustomDataLoader();  
        }  
    }  
}
```

- Now you can override GetCustomData and LoadCustomData

PlayersData

- Create C# script that inherits from PlayerData
 - Don't forget to set class as Serializable
 - Don't forget to specify base constructor (Check demo for more info)
- Override load data and save whatever serializable variable you want
- Override SavePlayer in your custom data loader
- Override LoadPlayer in your custom data loader