Yunasawa **O** Library

Runtime Debug Command - Documentation

Documentation shows you how to use RUNTIME DEBUG COMMAND.

Script DOCUMENTATION Debug Command Contact yunasawa200@gmail.com

★ About

- Runtime Debug Command provides you an input field used to handle and debug your logics, events or you can use it as a feature of you game.
- See **Version** for more updated features.
- This tool is not really perfect and complete so if you have any errors or bugs or difficulties when use this, please feedback and I will response as soon as possible.

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★ How to create Debug Command GUI

From Menu Item / Hierarchy (Currently not supported)

- First, you can select an object in hierarchy to be parent of RDC.
- Right-click in hierarchy, select YOL > 2D > Runtime Debug Command or select Tools > YOL > Create Object > 2D > Runtime Debug Command On Window bar.
- In case you don't select a canvas to be the parent, a new Canvas and Event System will be created automatically.

From Prefab / Asset

- Find RDC in [Assets] > [Yunasawa \mathcal{O} Library] > [Runtime Debug Command] > [Prefabs] > [Debug Command GUI].
- Drag it into an object that you want it to be the parent of RDC.

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★ How to create new Debug Command

- Here is a sample code for a **DebugCommand**, I call it DC_Debug. It is used to display a message inside log window with a general command of **/debug selection message**.

- As you can see on the sample picture, now I will show you how to make one step by step:
 - First, create a new class (name it whatever you want, I recommend to put DC_ in the beginning), inherited from DebugCommand.
 - Make a constructor for it, now you have to concentrate on this step. **CommandNodes** is a **List** of **CommandNode**. Here is **CommandNode** class:

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```
public class CommandNode
{
    public string Nodes = "";
    public string[] Suggestions = new string[0];
    public bool MustStartWith = false;
    public bool Customable = false;

    7 references
    public CommandNode(string nodeCommand, string[] suggestions, bool startWith = false, bool customable = false)
    {
        Nodes = nodeCommand;
        Suggestions = suggestions;
        MustStartWith = startWith;
        Customable = customable;
    }
}
```

As you can see, **CommandNode** has 3 properties, Nodes, Suggestions, MustStartWith and Customable.

- Nodes is the general name of node in a command. For example, in the command /debug selection message, Nodes are "debug", "selection", "message".
- **Suggestions** will show up when you typing the commands so you can Tab to finish it automatically, when you typing the "selection" node of /debug selection message, a list of "log", "warning", "caution", "notify", "error" will show up.
- **MustStartWith**, if you enable this only the suggestions which start with the word you're typing will appear. You are in "selection" node, then you type "n" then only "notify" appears, but if it's disabled, "warning", "caution" and "notify" will show up (Those 3 contain "n").
- Customable allows you to set that node is customable or not, it means you can type
 anything in that node and no need to follow the suggestions.
- Back to sample DebugCommand, you can see inside the constructor, I assign CommandNodes with a new list, inside I make new CommandNode objects with inputing params are Nodes,
 Suggestions, MustStartWith, Customable.
 - Node 0: new("debug", new[] { "debug" }, true, false), // 0 , it have "debug" as Nodes, "debug" as Suggestions and MustStartWith is true.
 - Node 1:

```
new("selection", new[] { "log", "warning", "caution", "notify", "error" }, true, false), // 1
is similar.
```

- Node 2: new("message", new string[0], false, true) // 2, because I don't need Suggestions for this so I don't put anything inside, StartWith is defaulted by false and this node is Customable, you can type anything in this node.
- After finish the constructor, call an override void named **Execute(string[] value)**, **value** is an array of words separated by *space*. For example, in command **/debug log Hello world**, **value** is { "debug", "log", "Hello", "world" }. Inside this method, you can do your own code to handle the command just like above sample code.
- You can use if (CheckWrongCommand(value)) return; to automatically check for wrong command and block the executer.
- Use Log(string log, LogType type = LogType.Executed) to show your command's result on Command Log as a message.

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• Here is another sample for **DebugCommand** called DC_Time, used to manage time in game.

• After you created a new **DebugCommand**, go inside **DebugCommandObject.cs** and there're 2 things you have to notice:

```
    Find this CreateCommand() method in DebugCommandList class.
    Inside this switch, add the first node of commands as case and return the command like this.
    Then find this CommandList inside DebugCommandObject class.
    Add the first node of the command inside the list of string like this.
```

Finish those thing and you now can use your own DebugCommand right inside your project.

★ How to use Debug Command Setting

You can select **Debug Command GUI** object to make your custom setting for RDC.

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