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### **DialogueQuest Developer Manual**

### **DialogueQuest for non-coders**

DialogueQuest features a standalone program called Dialogue-QuestTester that allows running dialogues without a Godot environment.

### **Installation and Setup**

The recommended way to install DialogueQuest is vida Godot's builtin Asset Library.

However if you want to get the latest features, you should install via the repository as such:

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On Linux / Mac:

1 cd my\_godot\_project
 git clone https://github.com/hohfchns/DialogueQuest
3 mkdir -p addons/
 mv ./DialogueQuest/addons/DialogueQuest ./addons
5 rm -rf DialogueQuest

Orin one line: git clone https://github.com/hohfchns/DialogueQuest && mkdir -p addons/ && mv ./DialogueQuest/addons/DialogueQuest ./addons && rm -rf DialogueQuest

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On Windows:

In your Godot project:

- Clone the repository
- · Make directory called addons
- Move the folder DialogueQuest\addons\DialogueQuest inside addons
- Delete the cloned repository

Open your Godot project, go to Project -> Project Settings -> Plugins and enable DialogueQuest

#### The Data Directory

Go to Project -> Project Settings -> General and search for Dialogue Quest, then set Data Directory to a folder where you will store DialogueQuest files (characters, dialogues, etc.)

This folder is by default set to res://dialogue quest/

This folder is where you will be storing your characters and dialogues

## **Exporting**

When exporting your game, it is vital to include .dqd files in your build, as well as the plugin configuration file.

- Go to Project -> Export
- Select the platform you are exporting to (Linux/Windows/Web/etc.)
- Select the Resources tab
- Under Filters to export non-resource files/folders, add \*.dqd,\*.conf

### **Examples**

To see a basic example of DialogueQuest, see the examples folder of the repository.

A more advanced example would be the DialogueQuestTester application.

# Writing Dialogue

Writing dialogue is done in the DQD format and is explained in detail in the User Manual.

This manual is for usage and extension of DialogueQuest within a Godot project.

For implementing the dialogue, see Creating Dialogue

# **Creating Characters**

Before we starting creating dialogues, we need to know how to create characters.

Creating characters is quite simple, simply create a new DQCharacter Resource in your Data Directory, and DialogueQuest will automatically be able to find and use it.

When creating a characters, you must provide a character\_id. This is how the character will be referred to in DQD.

### **Creating Dialogue**

To create a dialogue, simply create a new .dqd file.

If you put the file in your data directory, you will not have to specify a full path for it. See Starting the Dialogue

### **Playing Dialogue**

#### Scene setup

To play dialogue, you should set up your scene as follows:

```
2 CanvasLayer
DQDialoguePlayer
DQDialogueBox
DQChoiceMenu
6 ...
```

Click on the DQDialoguePlayer and provide it with the DQDialogueBox, as well as DQChoiceMenu.

Also create a DQDialoguePlayerSettings for it. It is recommended to save this resource as a file in your project.

You can also do this setup through code, however make sure the DQDialoguePlayer node set up before it is added to the scene.

#### Starting the dialogue

In order to start the dialogue, use the DQDialoguePlayer.play() method.

**Take note -** If your .dqd file is not in your data directory, you will have to provide the full filepath.

#### Stopping the dialogue

If you want to stop the dialogue early, you can call the DQDialoguePlayer.stop() method which will end the dialogue early.

## **Settings**

Settings are saved in the .dialogue quest settings.conf file.

Currently there is only one setting, the data directory, which should be configured in the Project Settings rather than directly in the config file

### **Extending DialogueQuest**

# **Theming**

DialogueQuest uses mostly Godot's native Theme system for designing how the interface looks.

You can create a new Theme and import the settings from the default DialogueQuest theme, or create one completely from scratch as the default theme is quite small.

The main way of customizing dialogue components in DialogueQuest is simply creating an inherited scene, and changing it however you like.

Some nodes such as DQDialogueBox have settings objects, for example DQDialogueBoxSettings, which provides some common customizations.

#### See Also

Theme

Using the theme editor

#### **Custom Statements**

DialogueQuest allows you to add custom statements to DQD and extend the featureset of DqdParser.

To do so, do the following:

```
## my node or autoload.gd
2
  class SectionMySection extends DQDqdParser.DqdSection:
      var statement: String
      func solve flags() -> void:
6
           pass
8
  func ready() -> void:
      DQDqdParser.statements.append(
10
           DQDqdParser.Statement.new("my statement",
              my statement func)
      )
12
14 ## Returns SectionPipeline on success
  ## Returns DQDqdParser.DqdError on failure
16 static func my statement func(pipeline:
      PackedStringArray):
      if pipeline.size() <= 2:</pre>
18
           var error := DQDqdParser.DqdError.new("Error!
              Cannot parse statement my statement, please
              provide at least 2 arguments.")
           return error
20
      var sec := SectionMySection.new()
      sec.statement = pipeline[1] + pipeline[2]
22
      return sec
```

First we create a new section class which extends DQDqdParser.DqdSection, this can be either a localy defined class like the example, or a new script with class name definition.

We can give it the solve\_flags() method which will define how the \${flag} syntax works in DQD.

Now we need to create our parser function, in this case \_my\_statement\_func. Note that the static is optional, however the rest of the signature is critical.

The function must take in an argument of type PackedStringArray, and must return either an object of class inheriting DqdSection indi-

cating it is successful, or DqdError indicating it has failed.

The pipeline argument is an array of every pipe-seperated argument in the line the statement was found in.

Note that: - It contains the statement itself (always, at index 0) - It contains whitespace, you can use the helper functions DQScriptingHelper.remove\_whitespace, DQScriptingHelper.trim\_whitespace, DQScriptingHelper.trim\_whitespace\_suffi

Lastly we must add a new DQDqdParser.Statement object to DQDqdParser.statements.

The DQDqdParser.Statement constructor takes 2 arguments: - The statement itself, the word that will be referred to in DQD. - The callback function that will be used to parse the the statement.

Right now, your statement is parsed, however it cannot actually do anything until you implement it's logic. See Custom Logic

### **Custom Logic**

The logic of DialogueQuest is handled in the DQDialoguePlayer class.

In order to add custom logic, you must create a new class extending DQDialoguePlayer.

Once you do, you can handle your custom statement like so:

```
## my dialogue player.gd
2 extends DQDialoguePlayer
4 func ready() -> void:
      self.section handlers.append(
6
          SectionHandler.new(SectionMySection,
              handle my section),
8
      super. ready()
10
12 func handle my section(section: SectionMySection) ->
     void:
      # Here you have access to all parts of the
          DQDialoguePlayer
      print("This section doesn't do anything yet... It's
14
          statement is %s" section.statement)
```

To add a handler, we must add a SectionHandler object to the section handlers array.

The constructor of SectionHandler takes two parameters, a class (object of type GDScript), and a Callable.

When the parser returns the class you provided, the function you provided will be called with the parser's returned object.

Now we need to create our handler function, in this case \_handle\_my\_section.

The function must take in an argument of your section class, in this case SectionMySection. It does not return anything.

### The Flags system

Flags are global variables that can be accessed from both code and dialogue.

They are accessible via the global DQFlags instance DialogueQuest.Flags An example:

```
DialogueQuest.Flags.raise("flag1")

DialogueQuest.Flags.set_flag("flag2", 2)

DialogueQuest.Flags.set_flag("flag3", "a third flag")

# Outputs 2
print(DialogueQuest.Flags.get("flag2"))

# Outputs 'A third flag'
print(DialogueQuest.Flags.get("flag3"))
```

#### Also see

The user manual entry on the flag statement

# DialogueQuest signals

There are a few important signals in DialogueQuest:

#### The error signal

DialogueQuest uses assert statements for it's critical errors, which will pause the game when running in the editor, however will not do so in a release build.

For the purpose of handling errors in release builds as well as GUI, DialogueQuest emits the DialogueQuest.error(message: String) signal when an error occures.

#### **DQSignals**

Other main signals are available via the DQSignals instance  $\mbox{DialogueQuest.Signals}$ 

The signals are:

- dialogue started(dialogue path: String)
- dialogue\_ended(dialogue\_path: String)
- dialogue signal(params: Array)
  - Emitted via the signal statment in dialogue.
- choice made(choice: String)
  - Emitted when a player makes a choice during dialogue.

#### See also

The signal statement in the user manual.

The choice statement in the user manual.