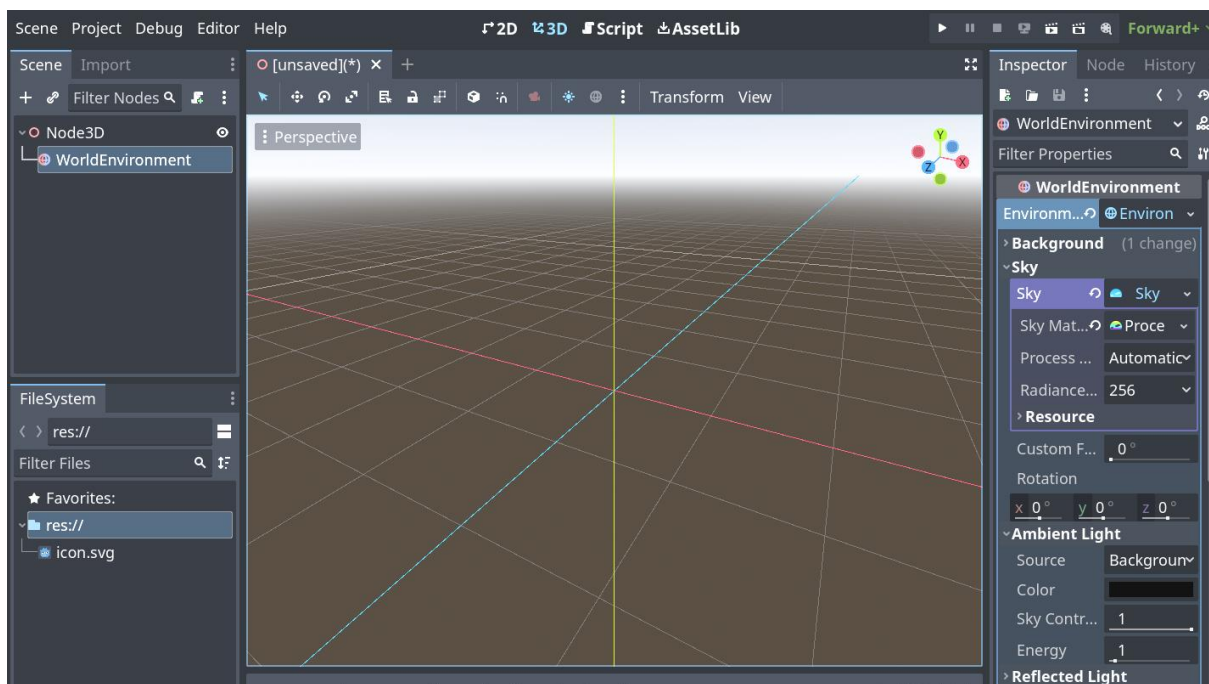
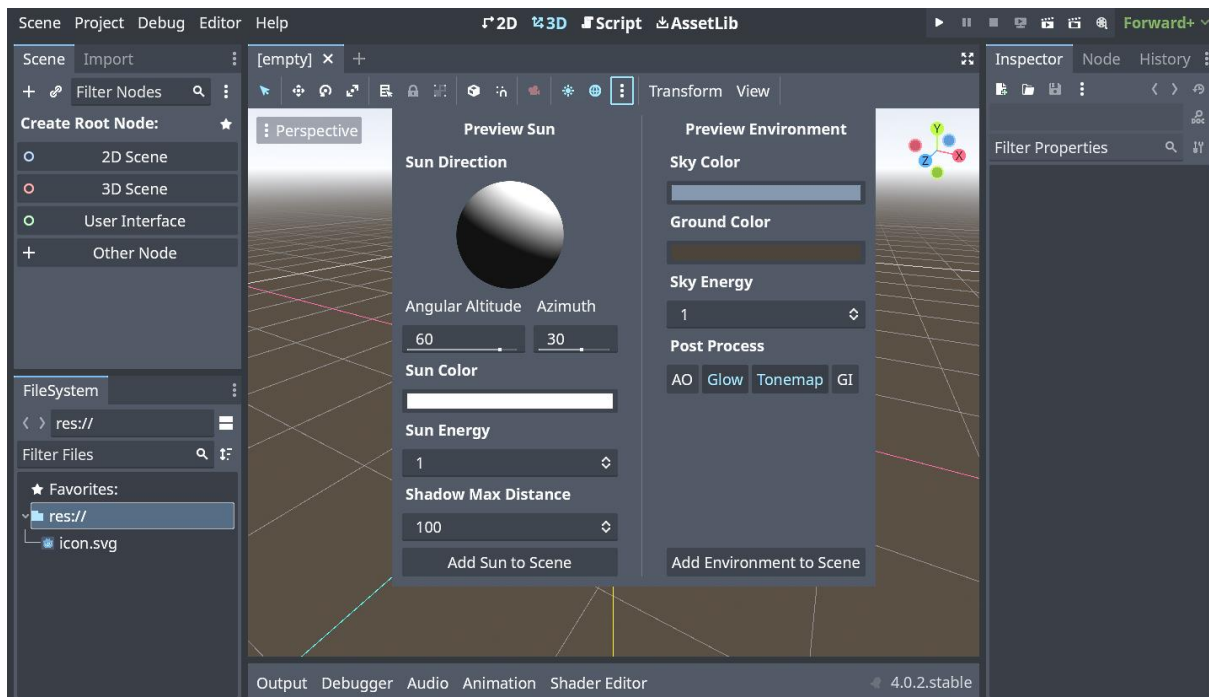
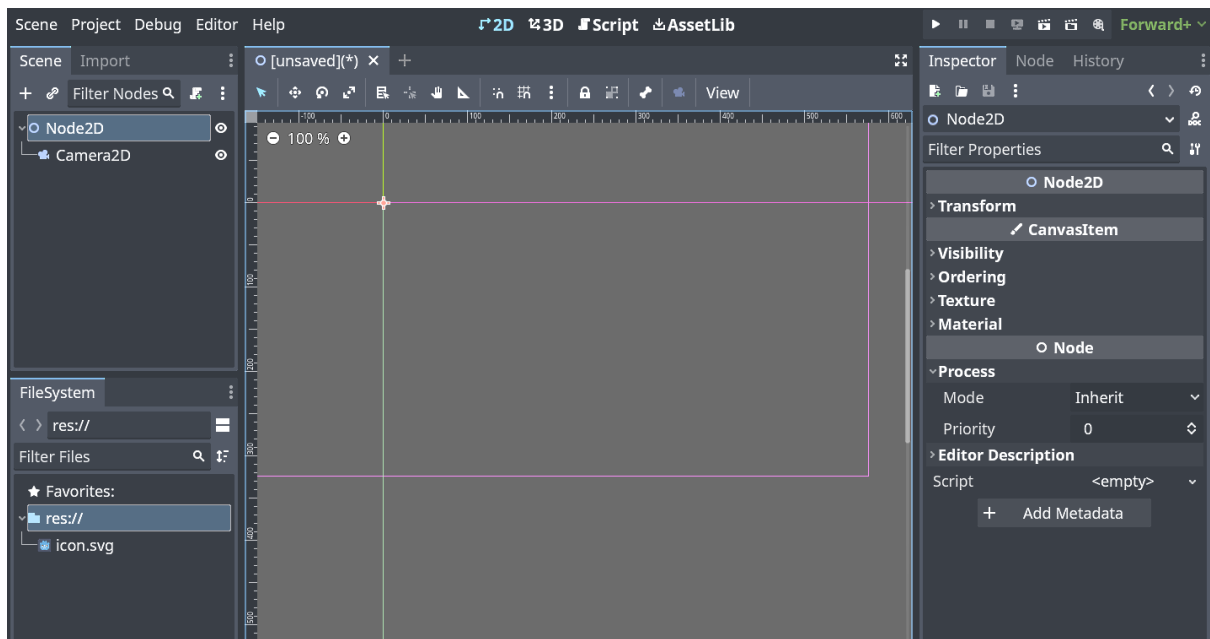
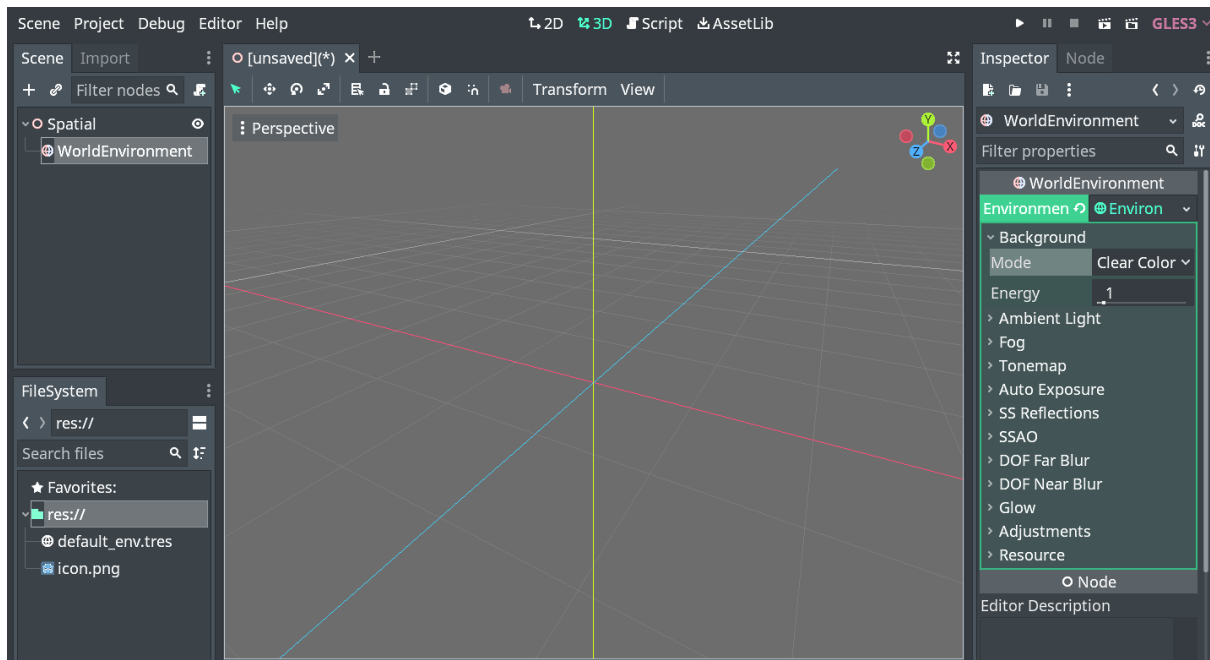
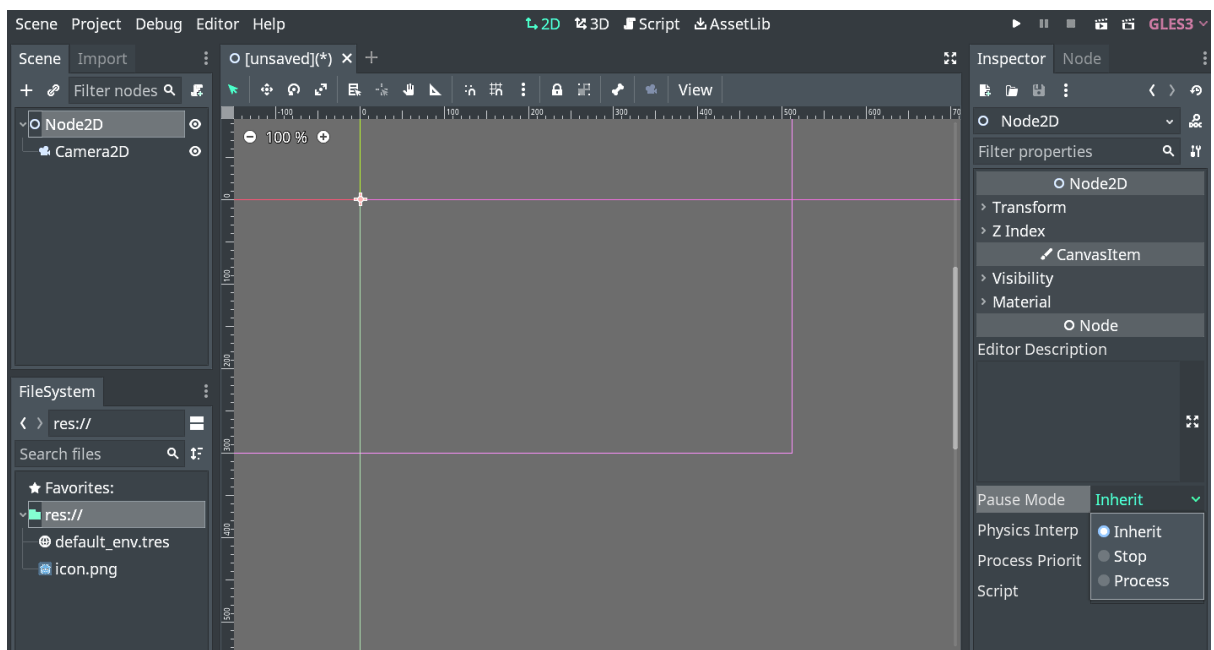
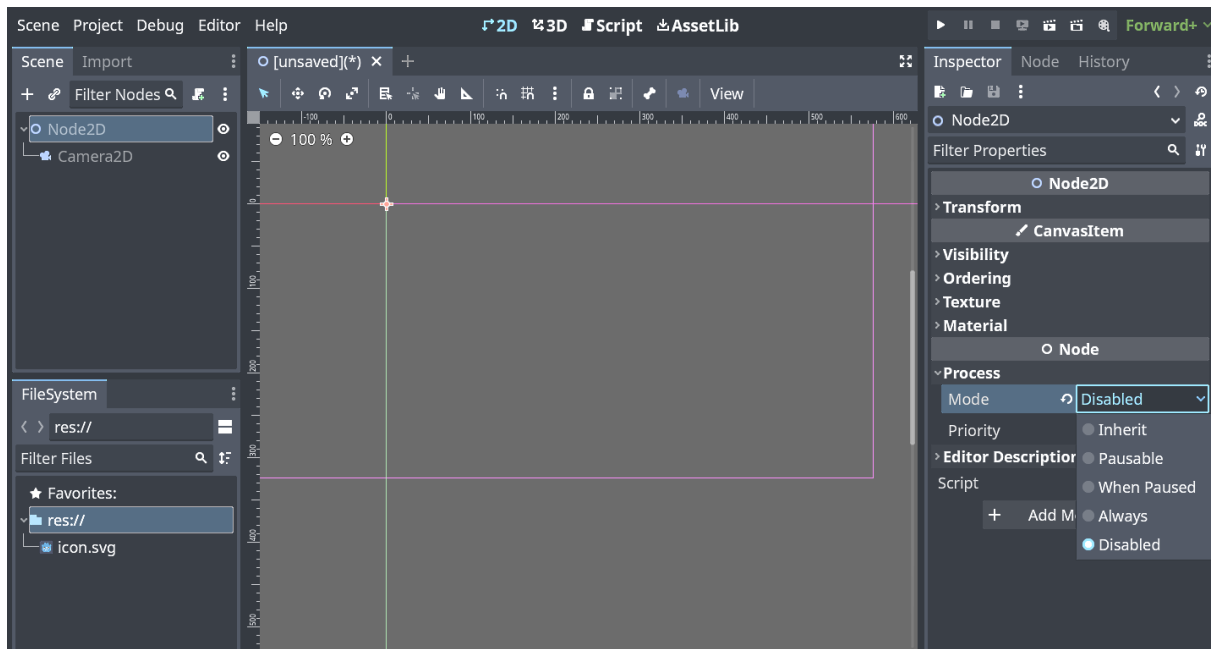
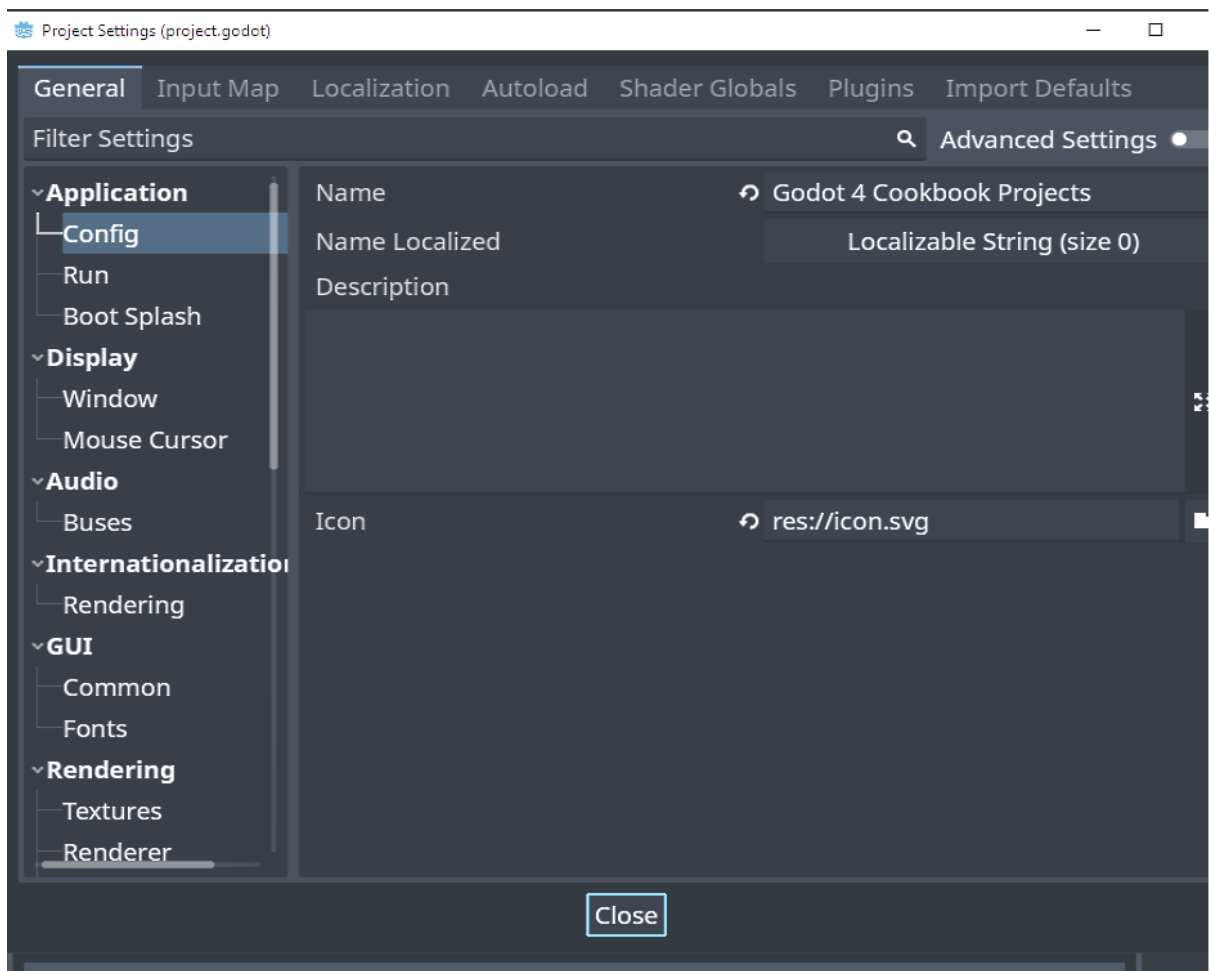
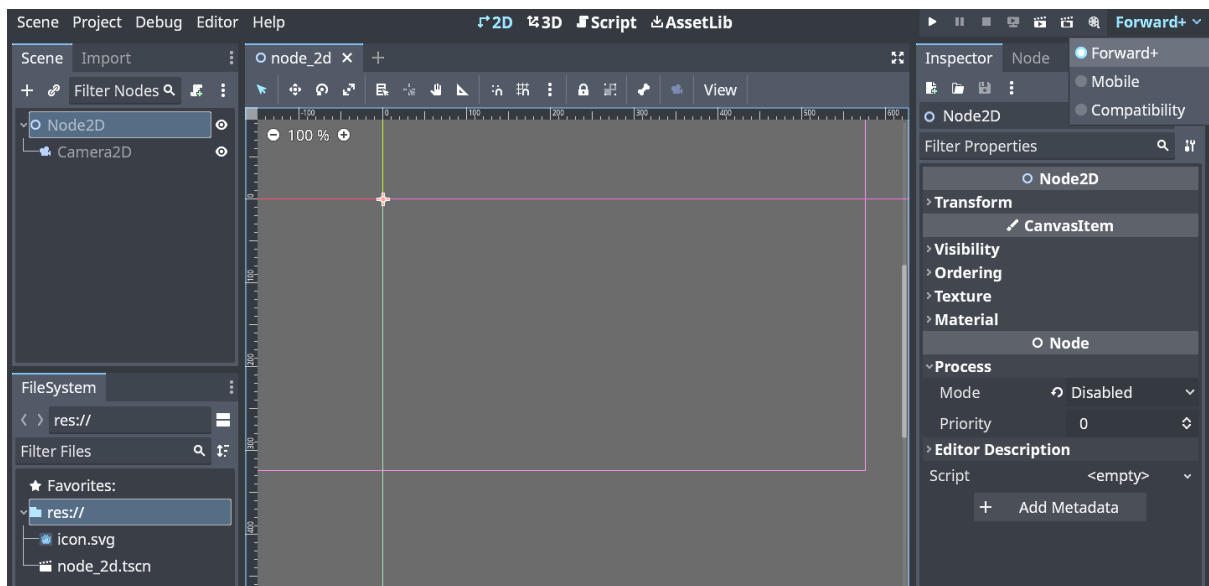


Chapter 01: Exploring the Godot 4 Editor











General

Input Map

Localization

Autoload

Shader Globals

Plugins

Import Defaults

Filter by name...

Filter by event...

Clear All

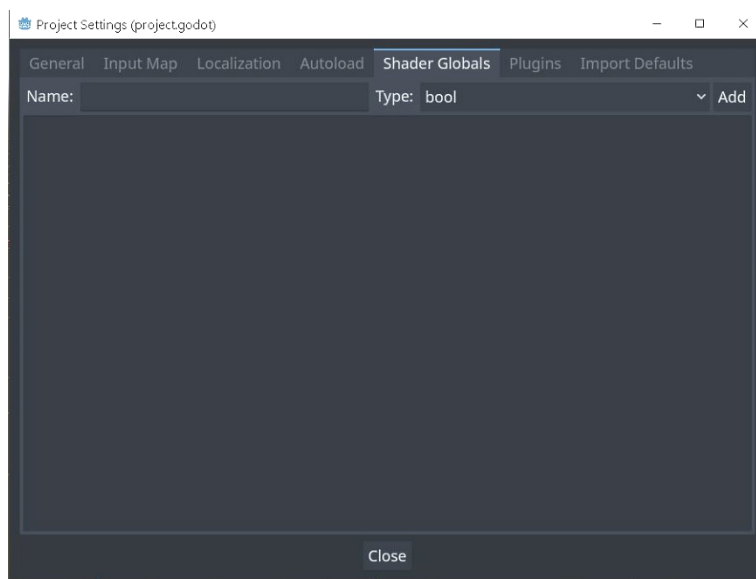
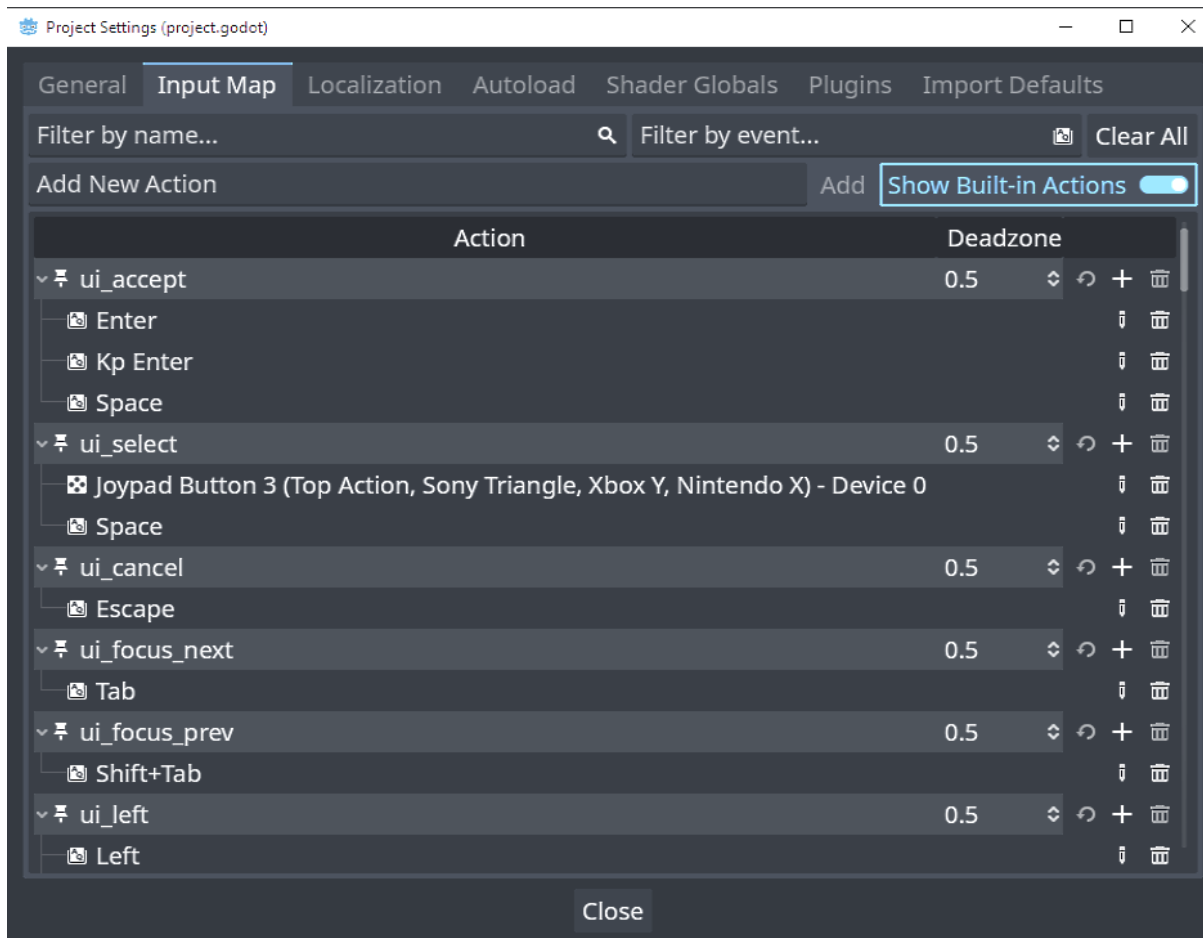
Add New Action

Add

Show Built-in Actions

Action	Deadzone
--------	----------

Close



General

Shortcuts

Filter Settings

File Server

Import

▼ Docks

Scene Tree

FileSystem

Property Editor

▼ Text Editor

Theme

Appearance

Behavior

Script List

Completion

Help

External

▼ Editors

Grid Map

3D

Color Theme

Default

▼

Highlighting

Symbol Color

Keyword Color

Control Flow Keyword Color

Base Type Color

Engine Type Color

User Type Color

Comment Color

String Color

Background Color

Completion Background Color

Completion Selected Color

Completion Existing Color

Completion Scroll Color

Completion Scroll Hovered Color

Completion Font Color

Close

Editor Settings

×

General

Shortcuts

Search

Q

▼ Text Editor

Theme

Highlighting

Indent

Navigation

Appearance

Script List

Files

Tools

Cursor

Completion

Help

External

Open Scripts

▼ Editors

Grid Map

Symbol Color

Keyword Color

Control Flow Keyword Color

Base Type Color

Engine Type Color

User Type Color

Comment Color

String Color

Background Color

Completion Background Color

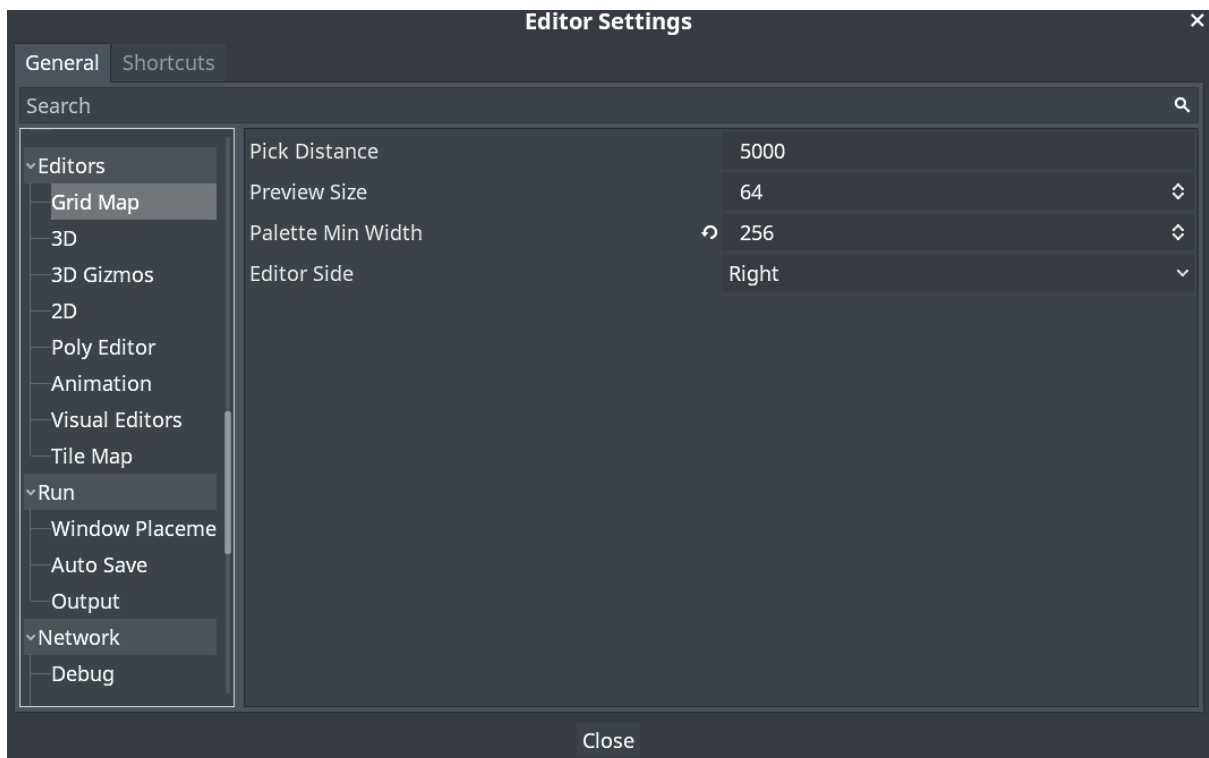
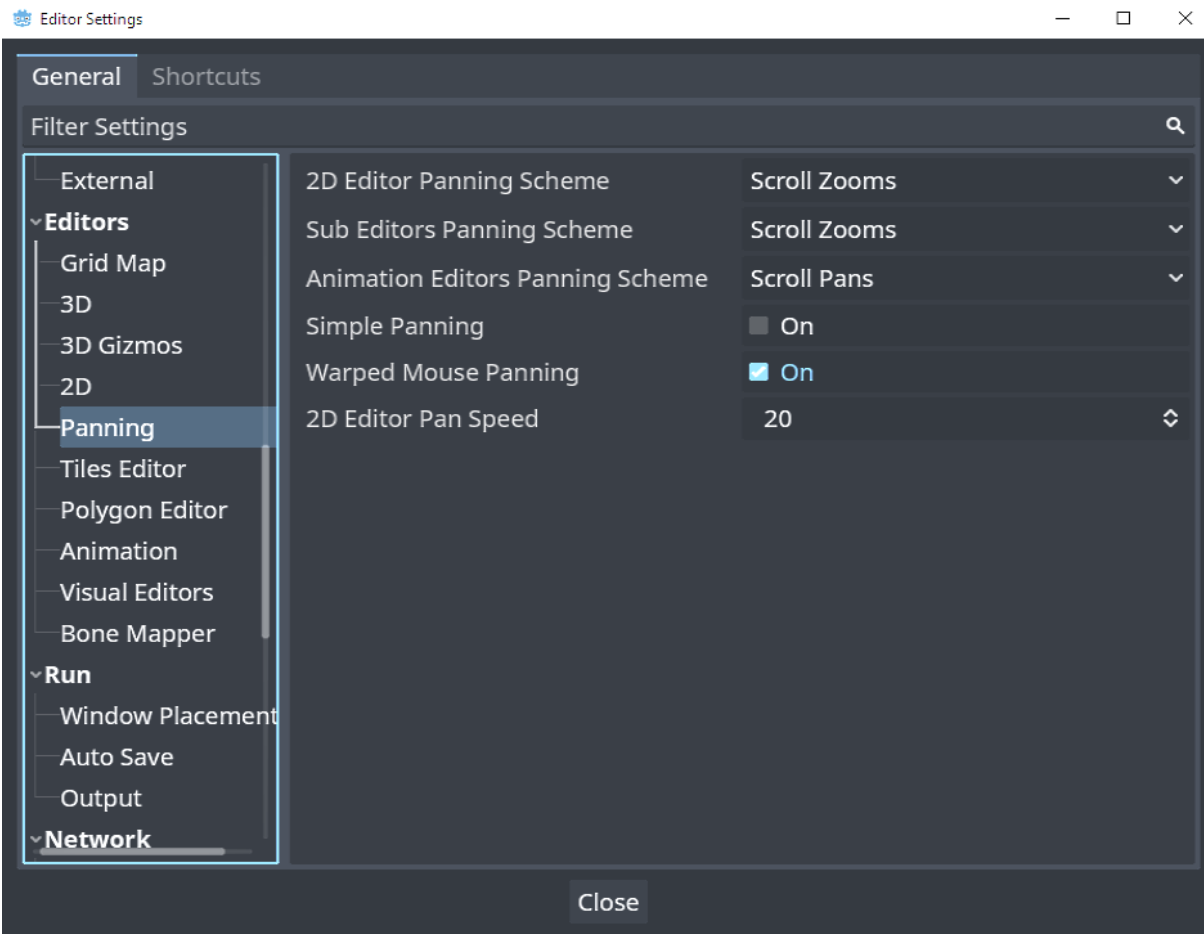
Completion Selected Color

Completion Existing Color

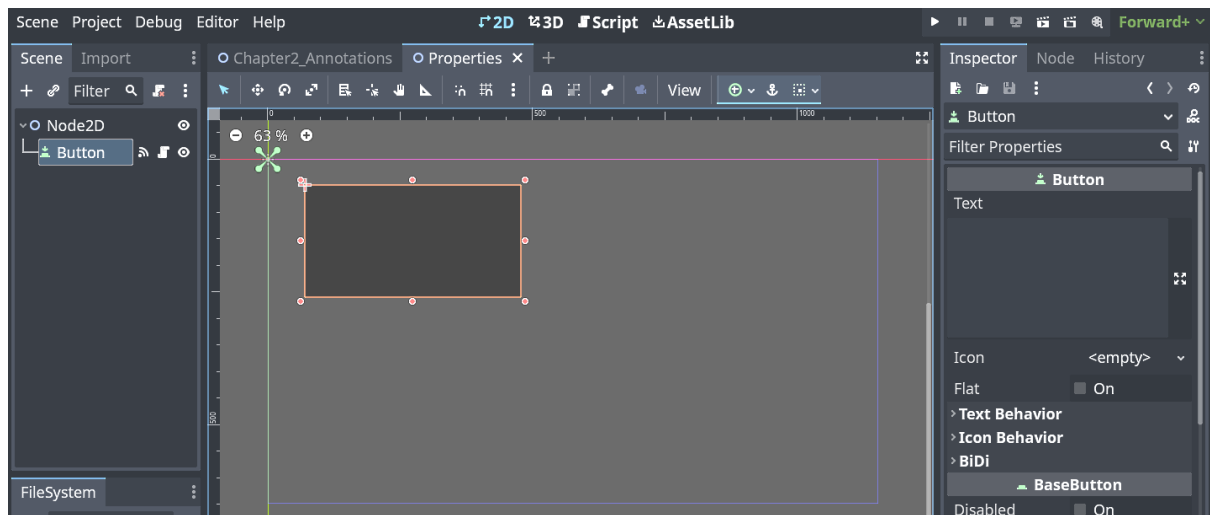
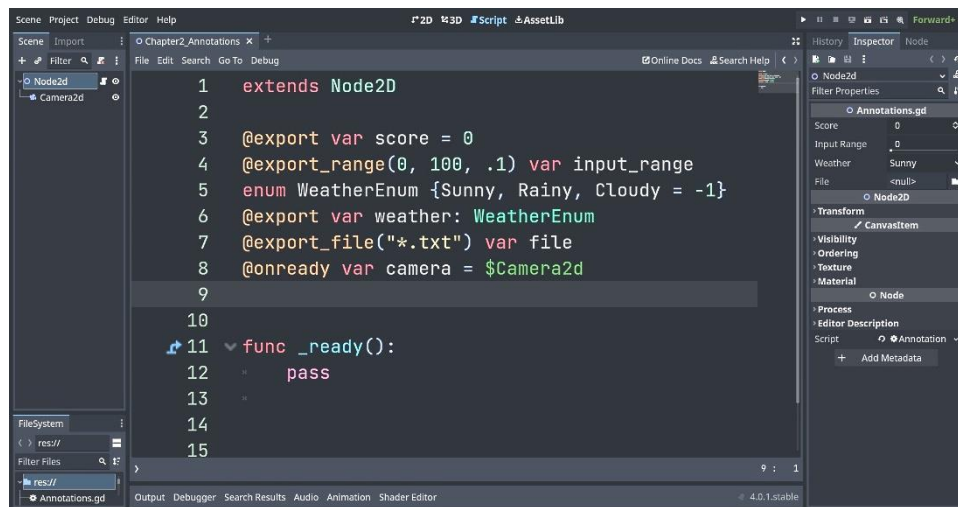
Completion Scroll Color

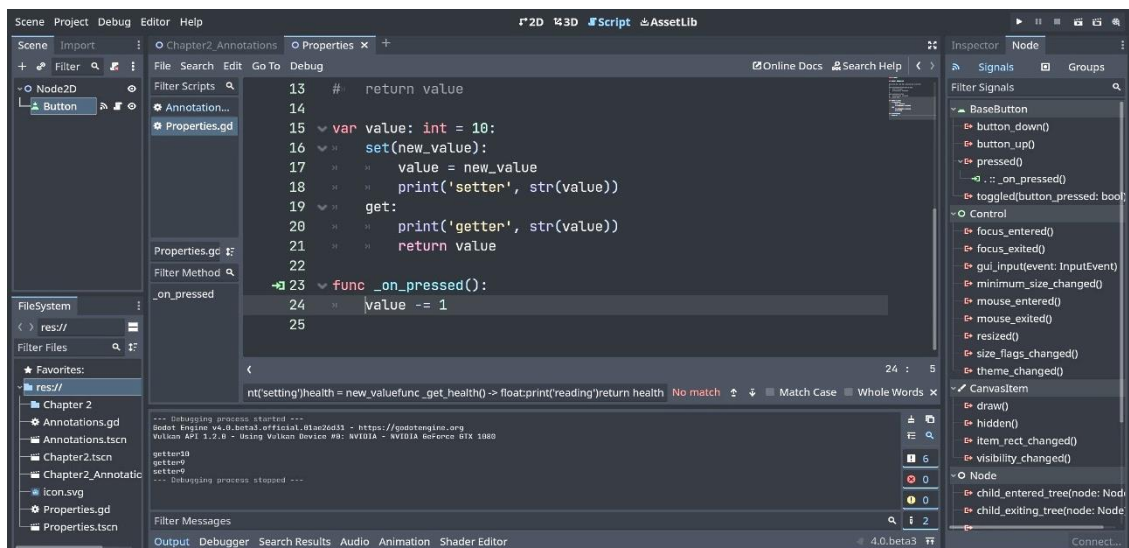
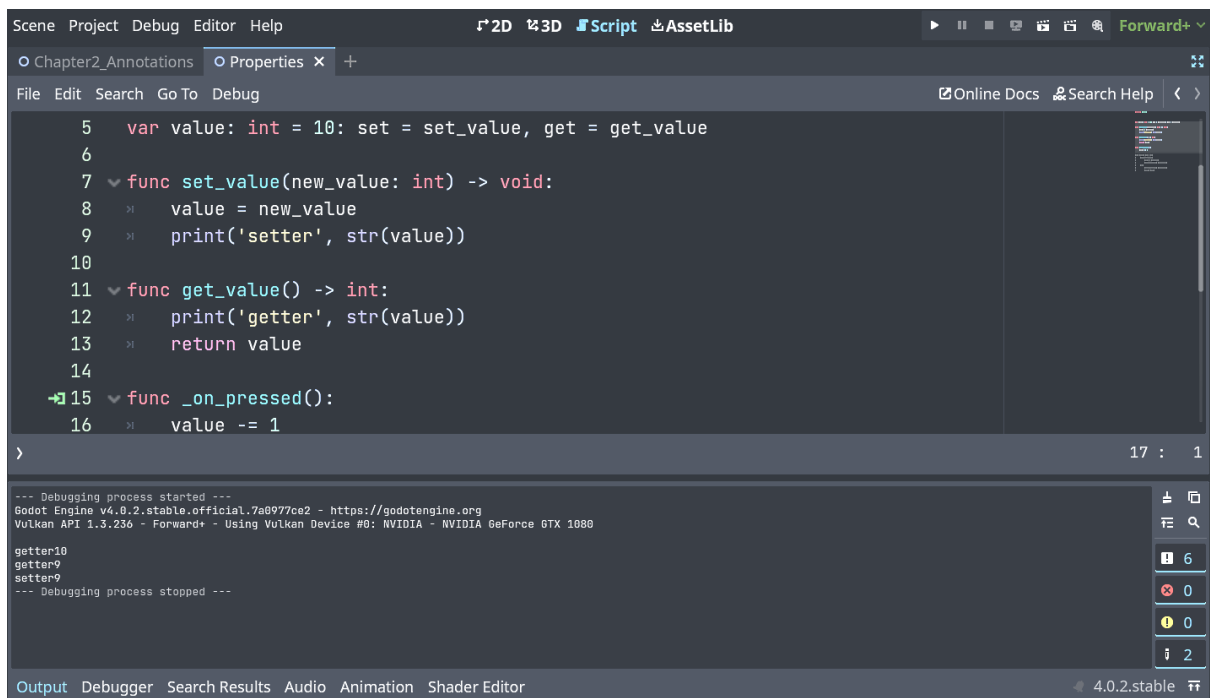
Completion Font Color

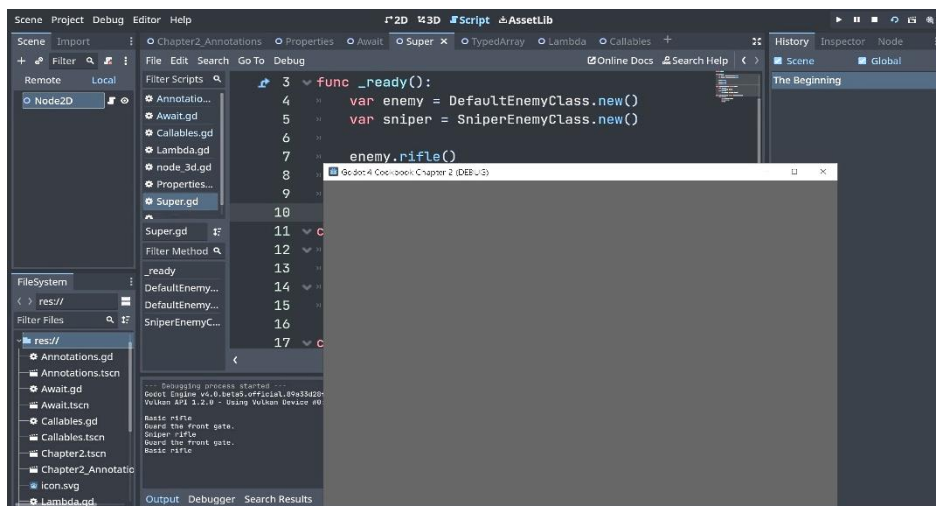
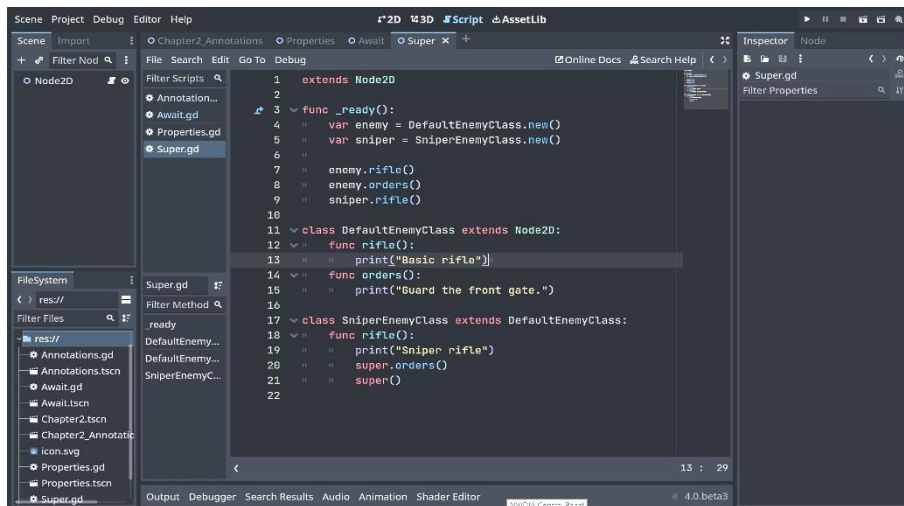
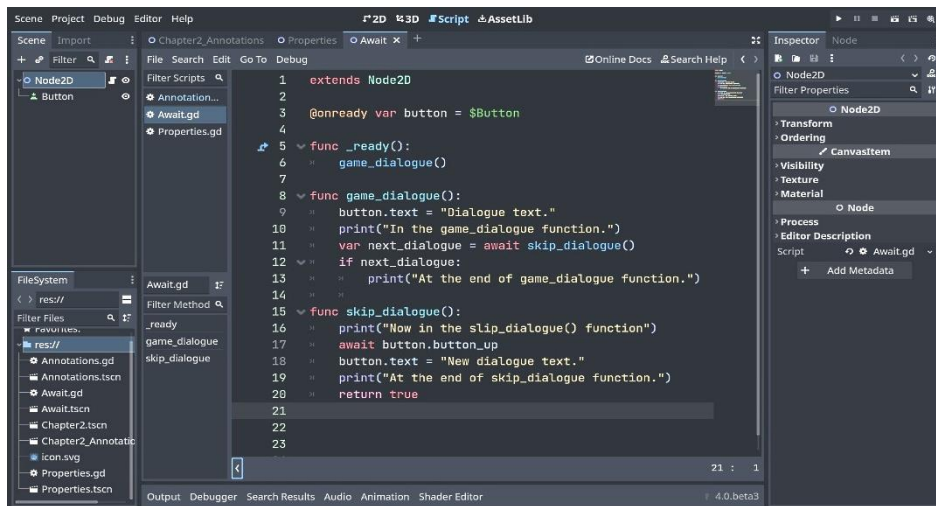
Close

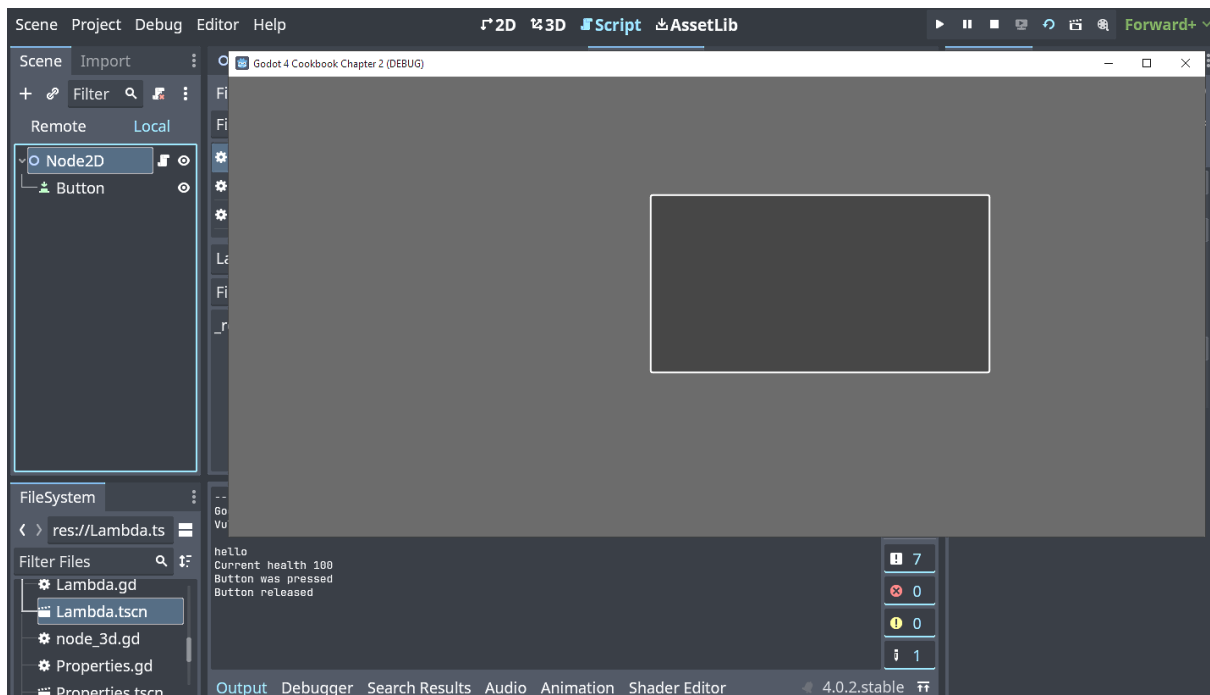
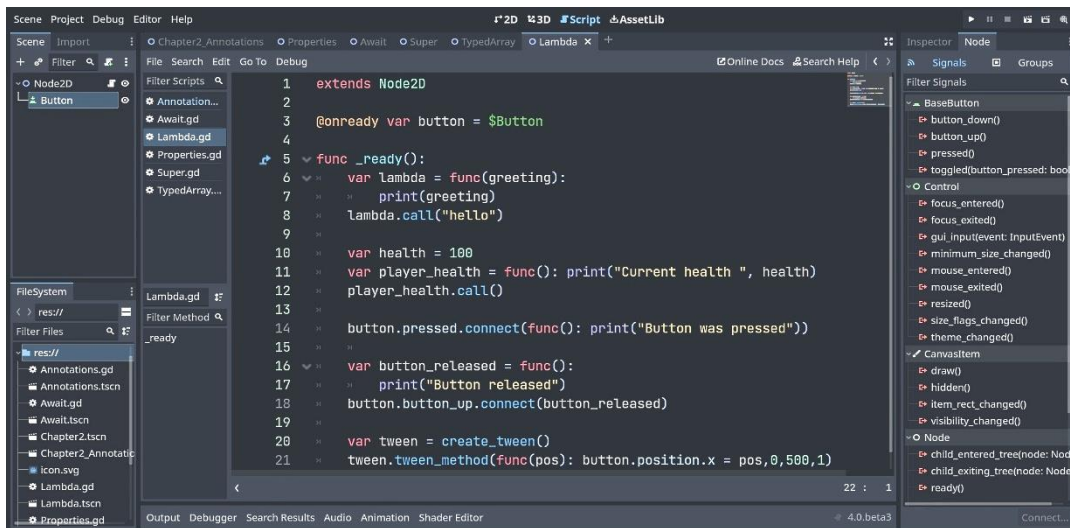
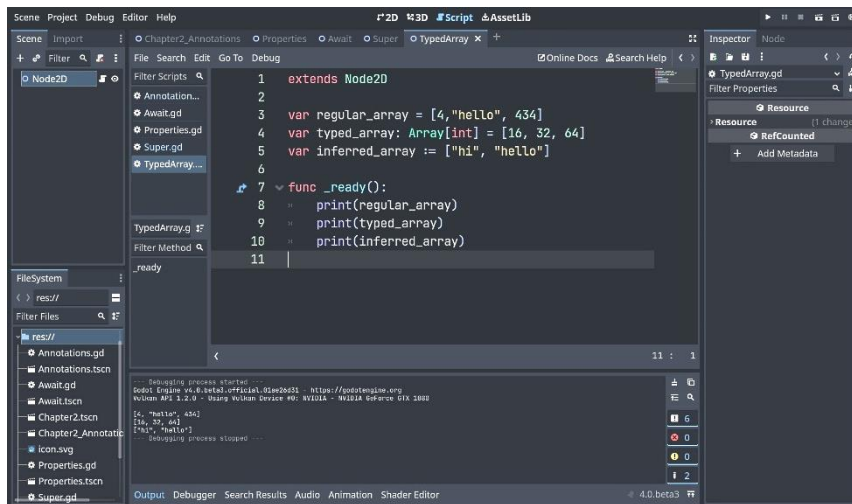


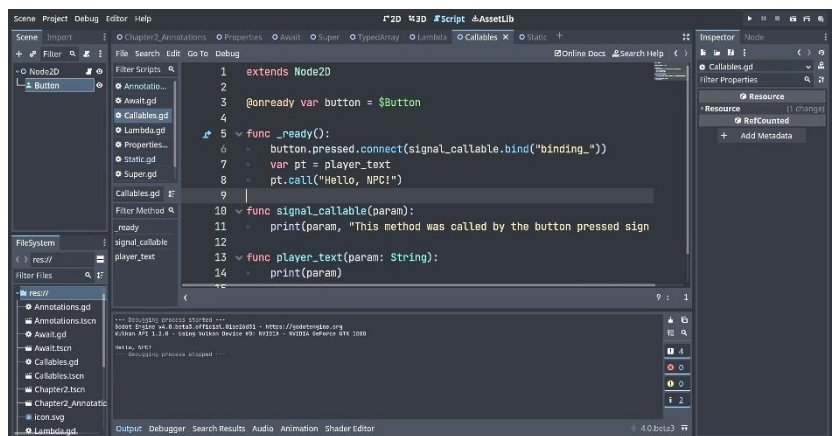
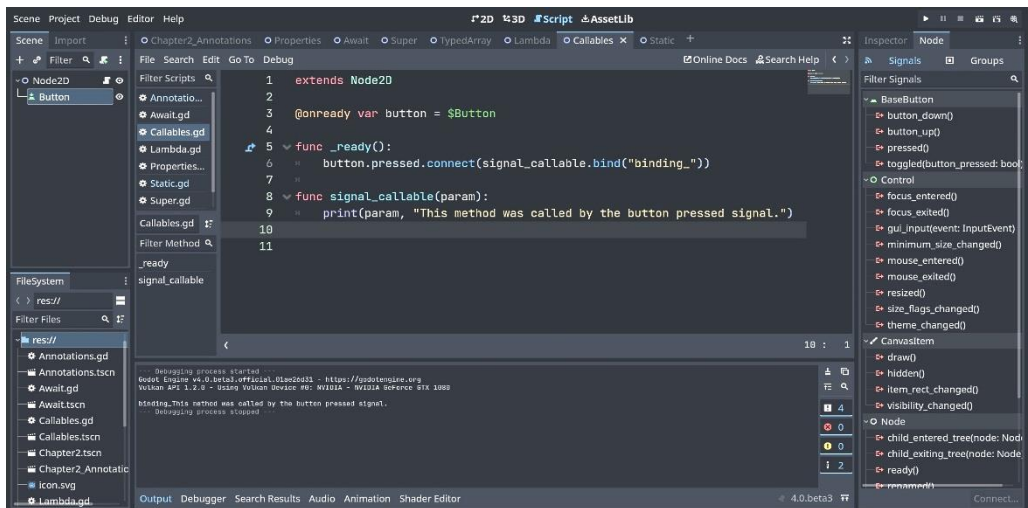
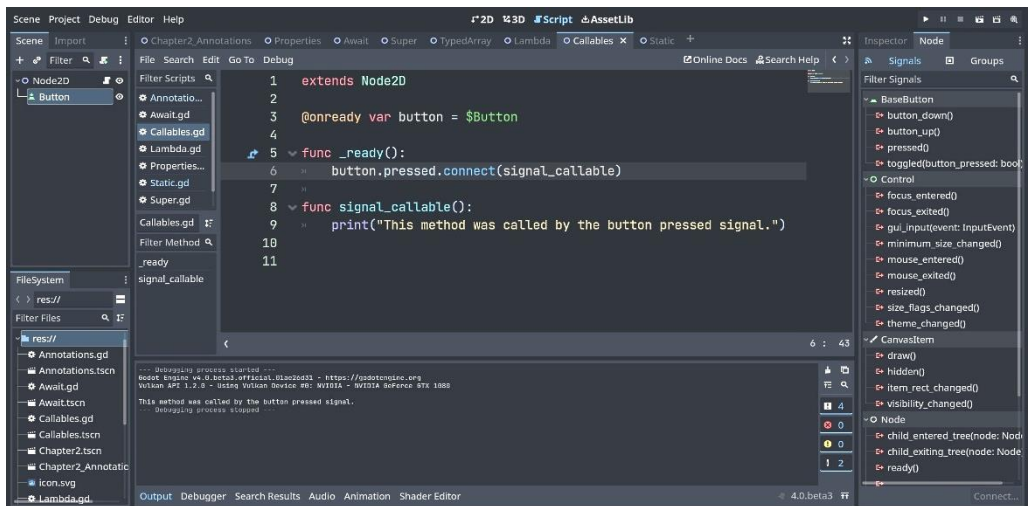
Chapter 02: Transitioning to GDScript 2.0



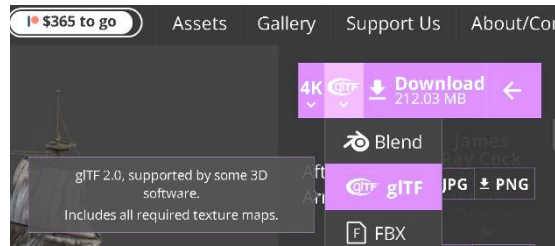








Chapter 03: 2D and 3D Rendering with Vulkan



Inspector

Node

History



DirectionalLight3D



Filter Properties



1

2

3

4

5

11

12

13

14

15



6

7

8

9

10

16

17

18

19

20

Node3D

Transform

Position



x 210 m

y 660 m

z -265 m

Rotation



x -60 °

y 150 °

z 0 °

Scale



x 1

y 1

z 1



Rotation Edit Mode

Euler



Rotation Order

YXZ



Top Level

☐ On

Visibility

Node

Process

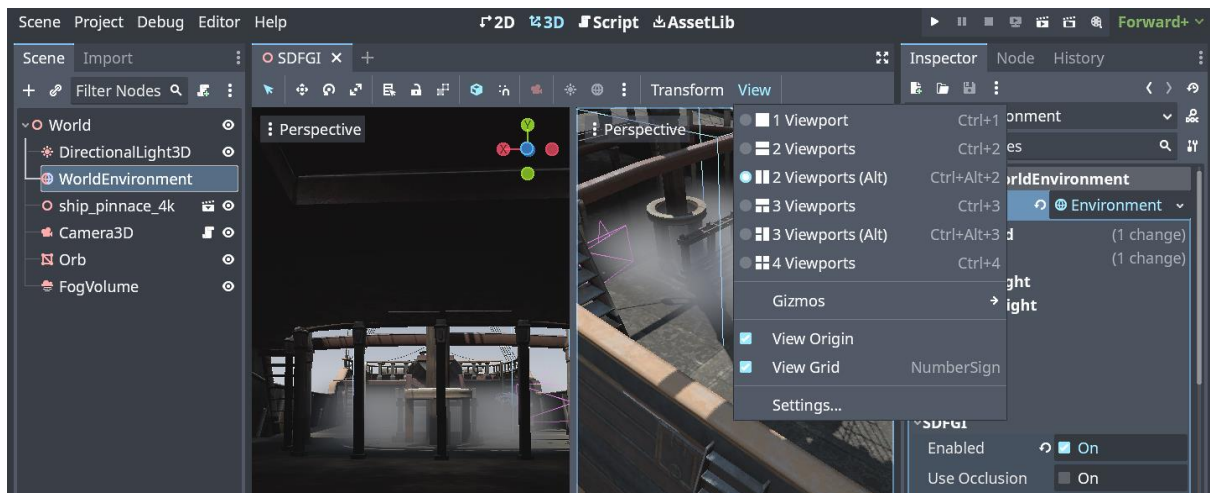
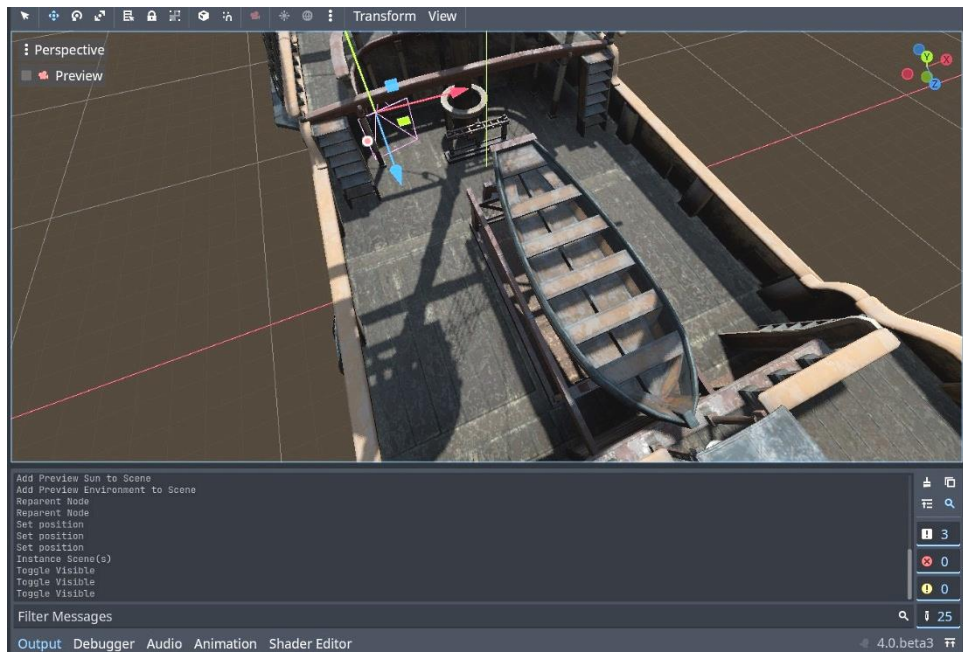
Editor Description

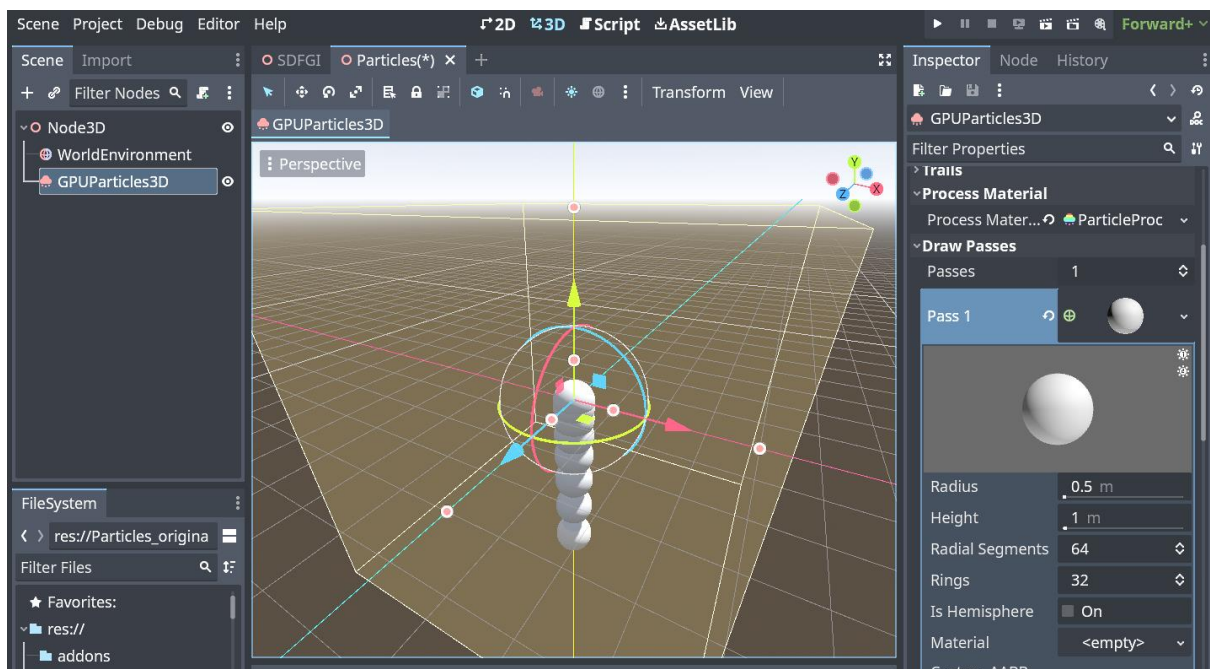
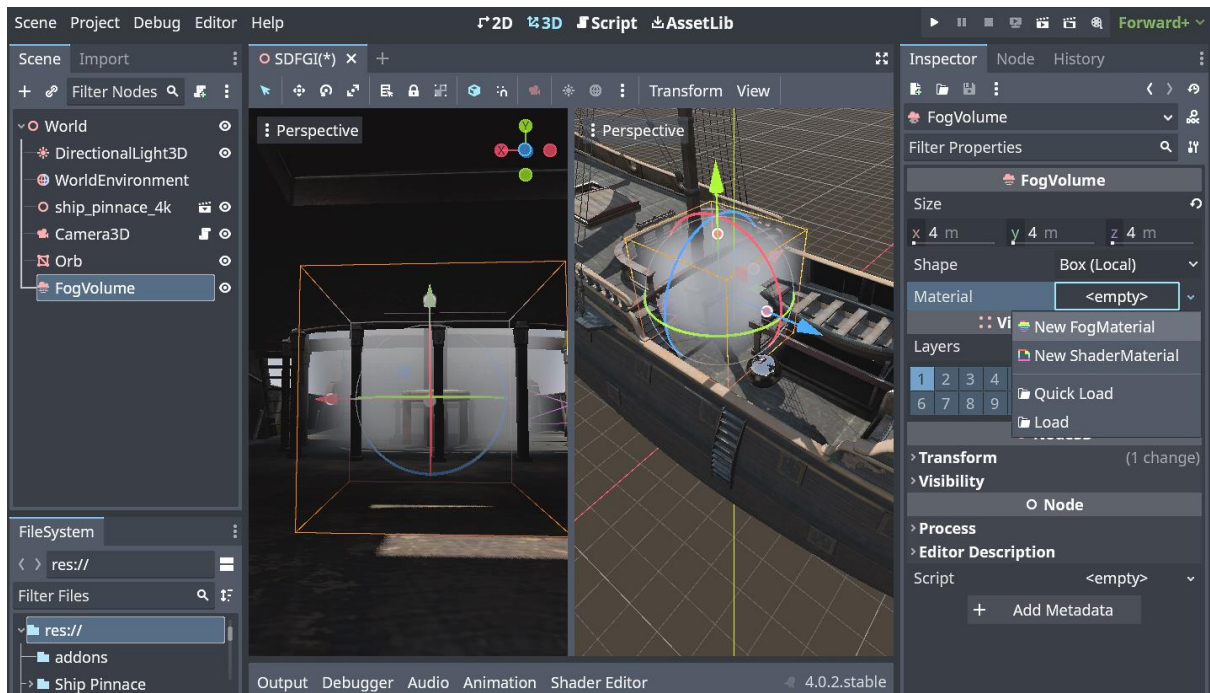
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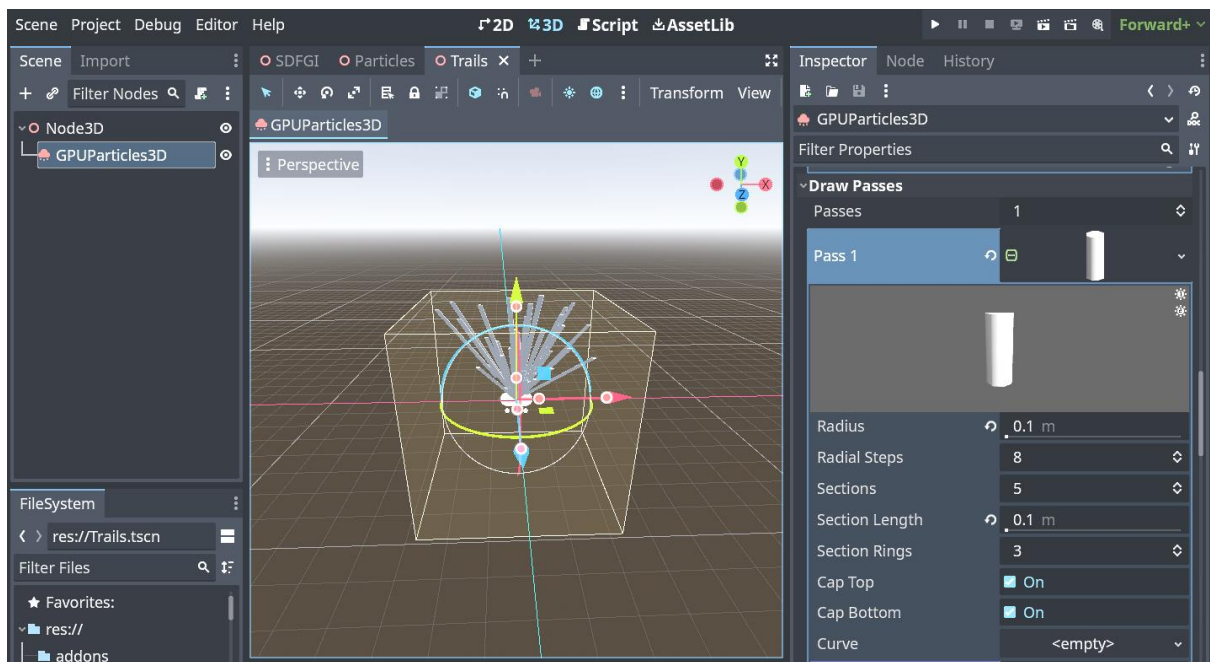
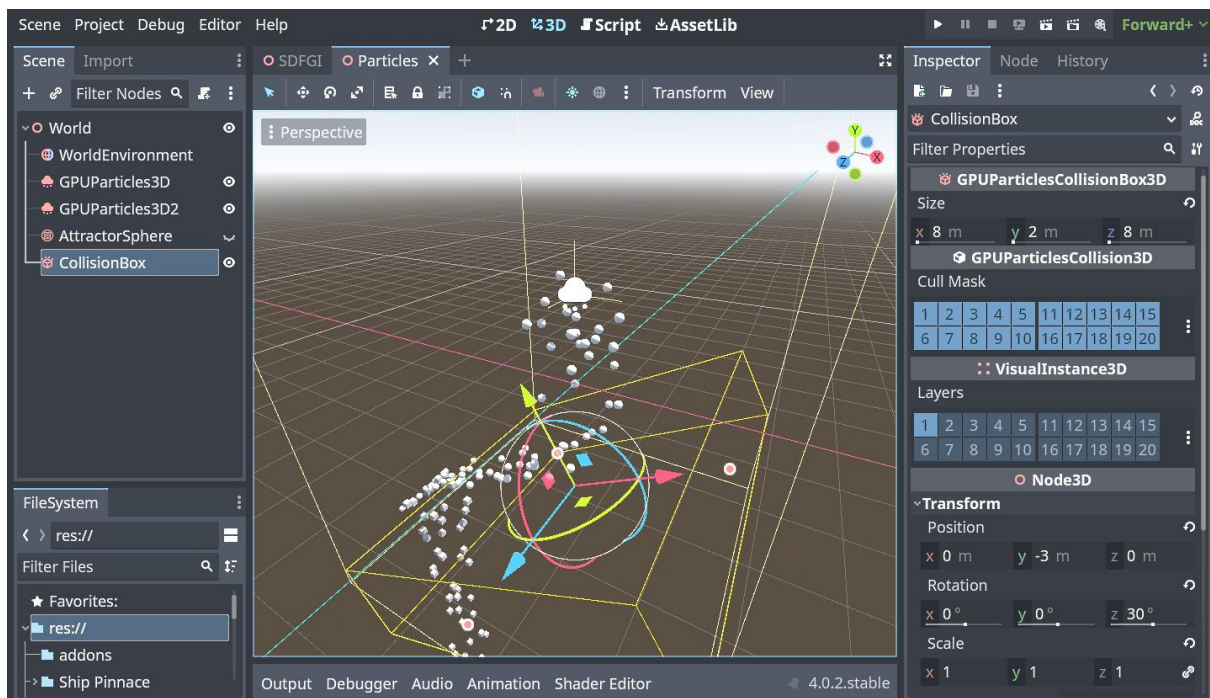
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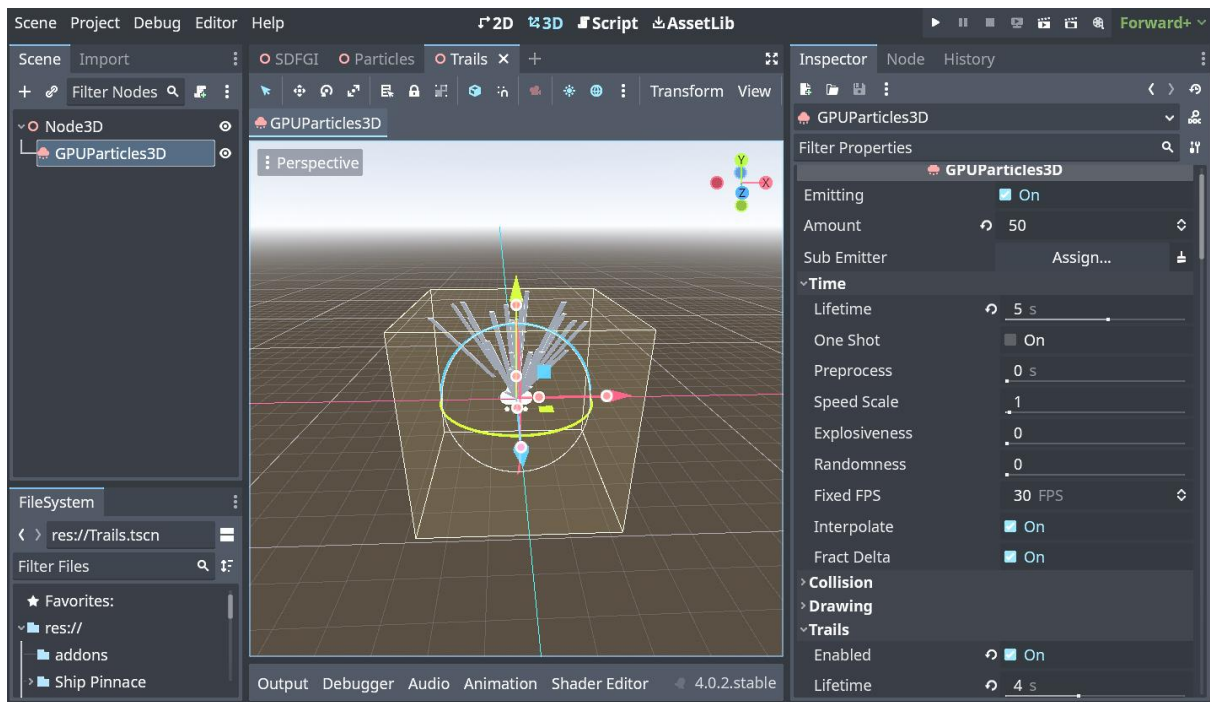
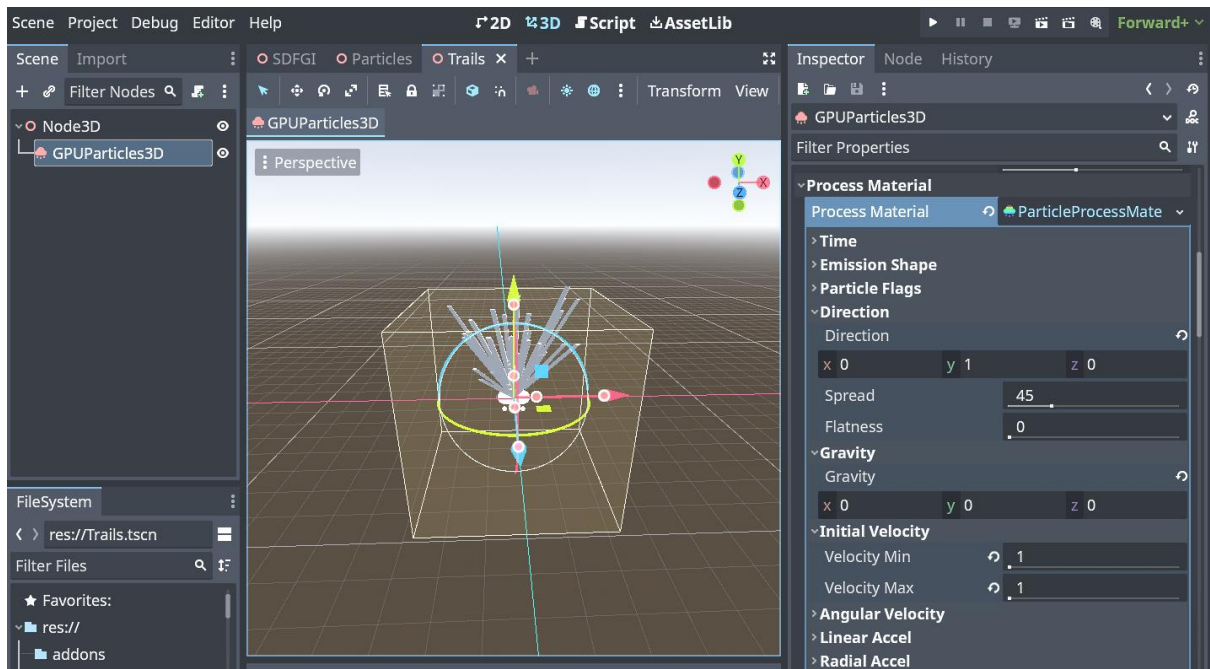


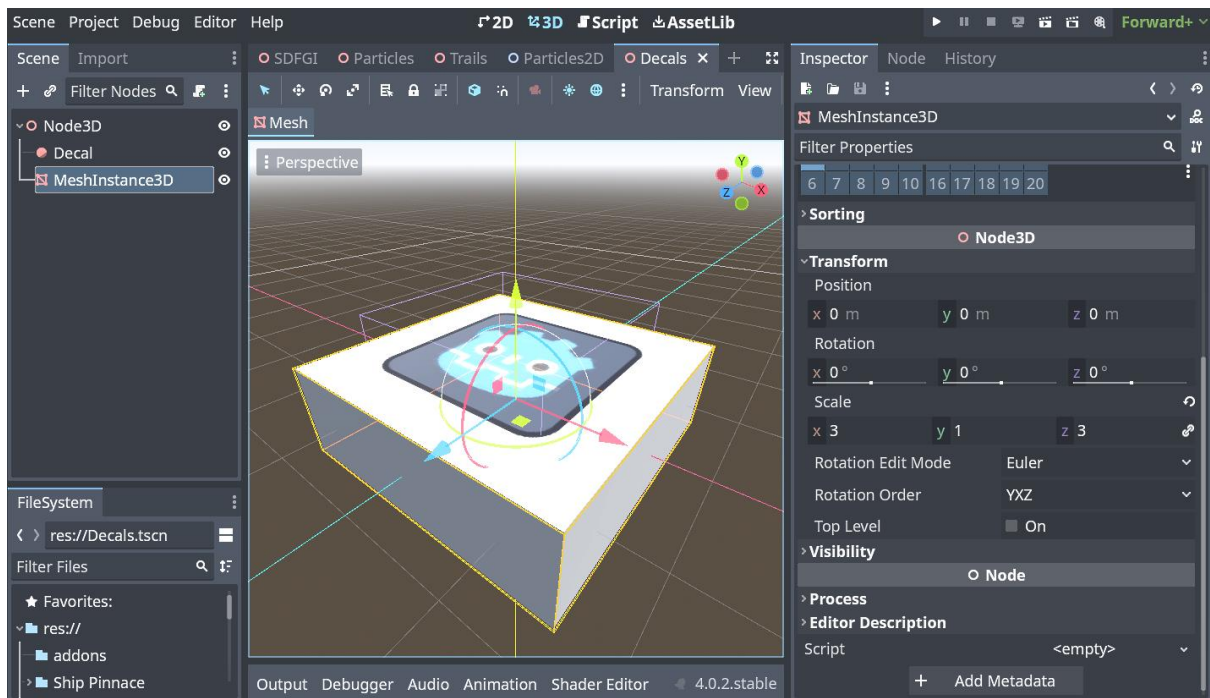
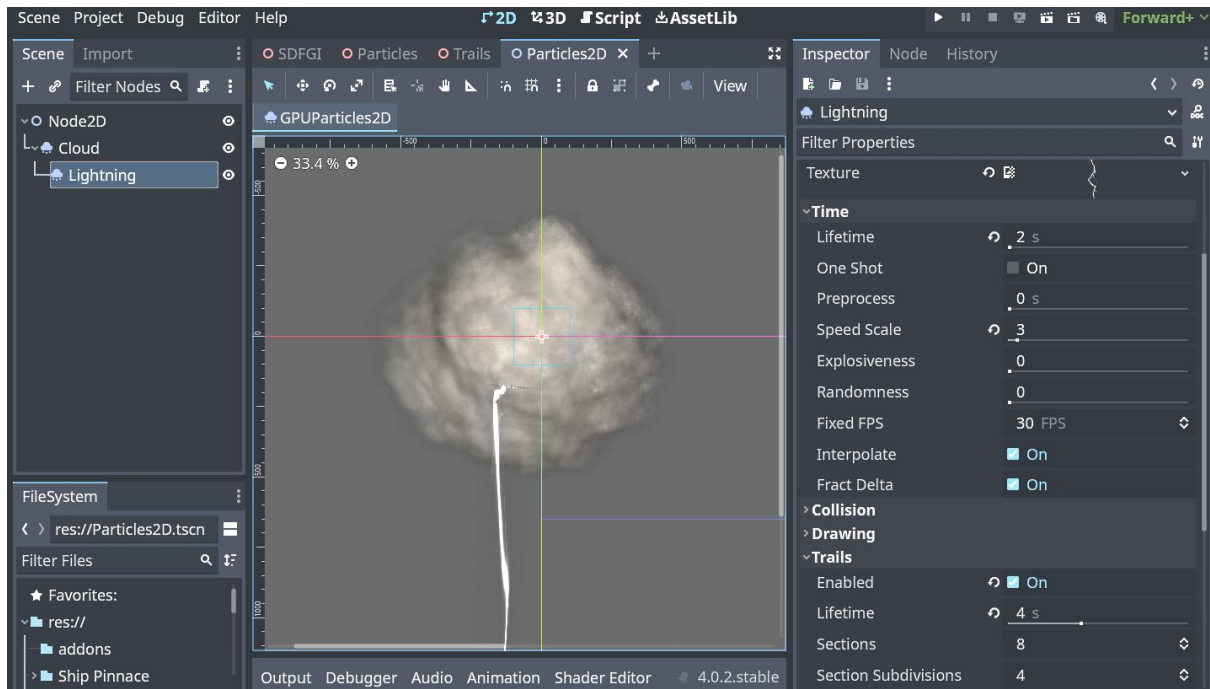
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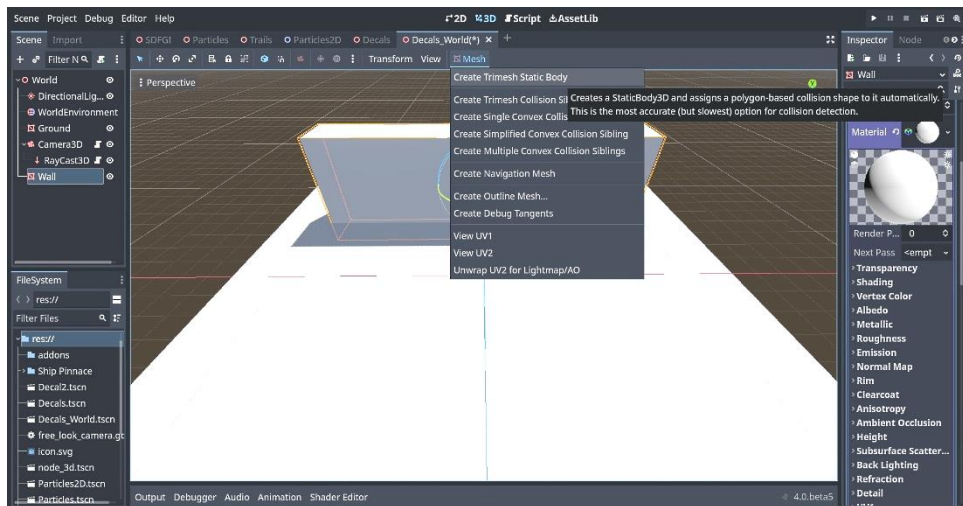
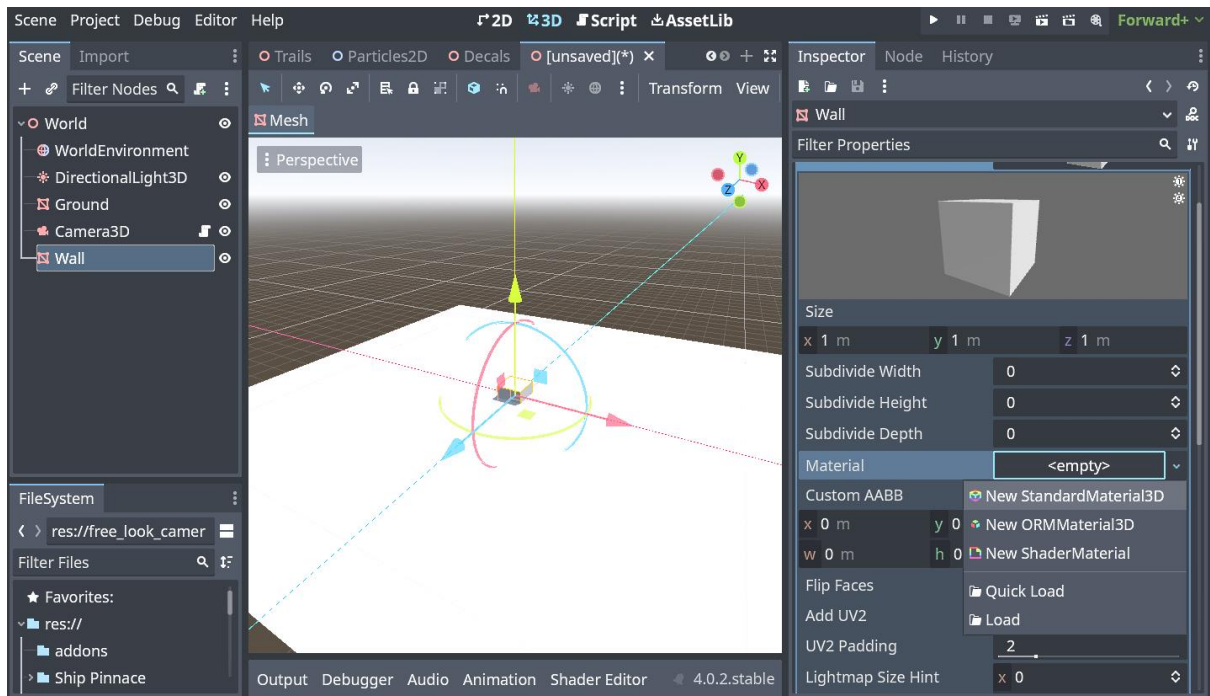


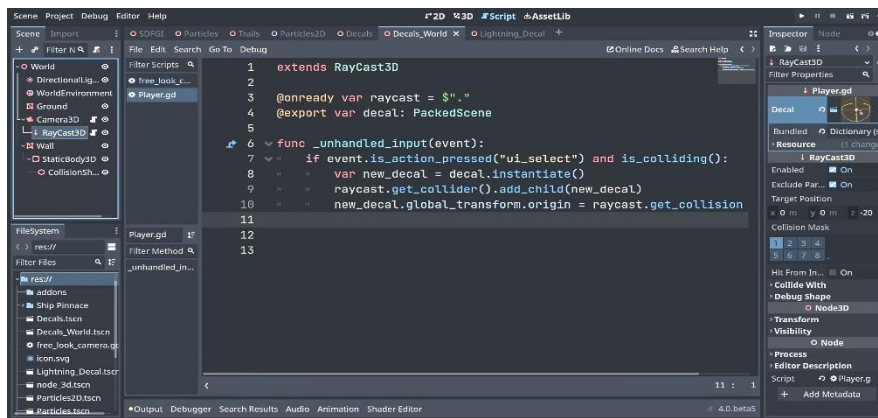
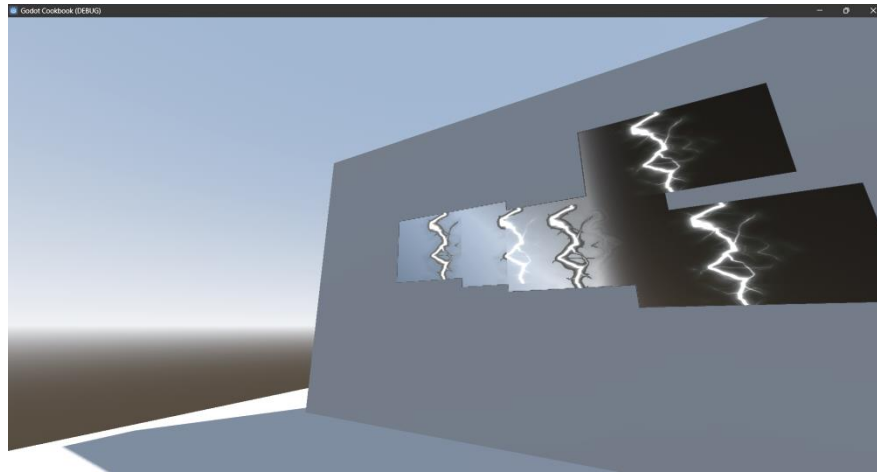




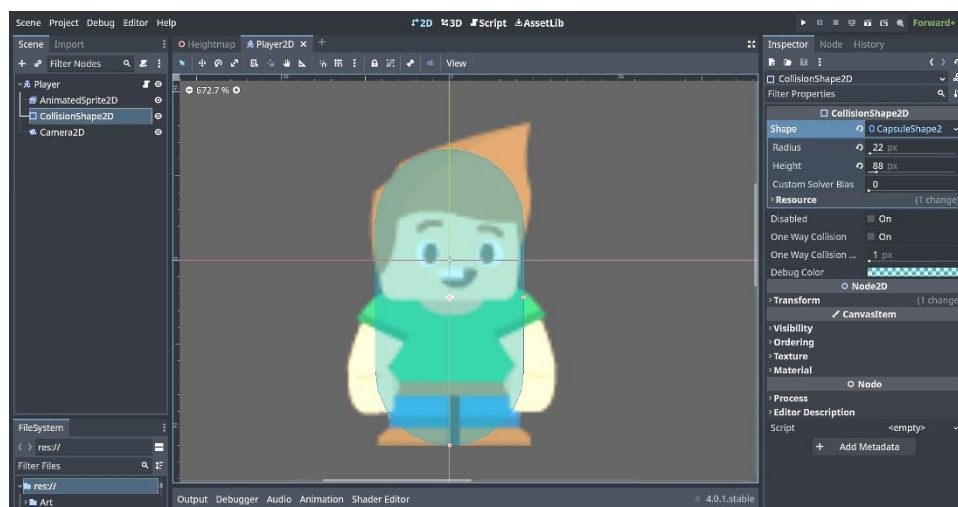
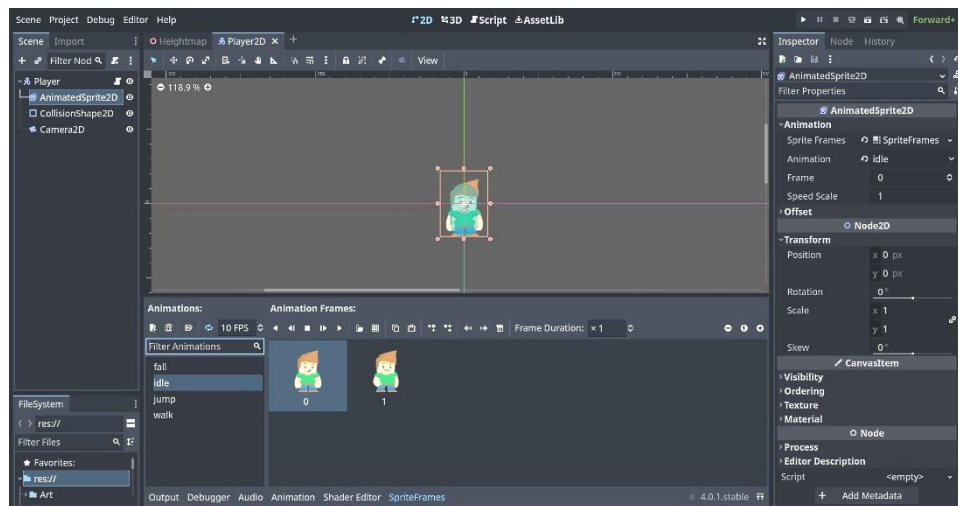
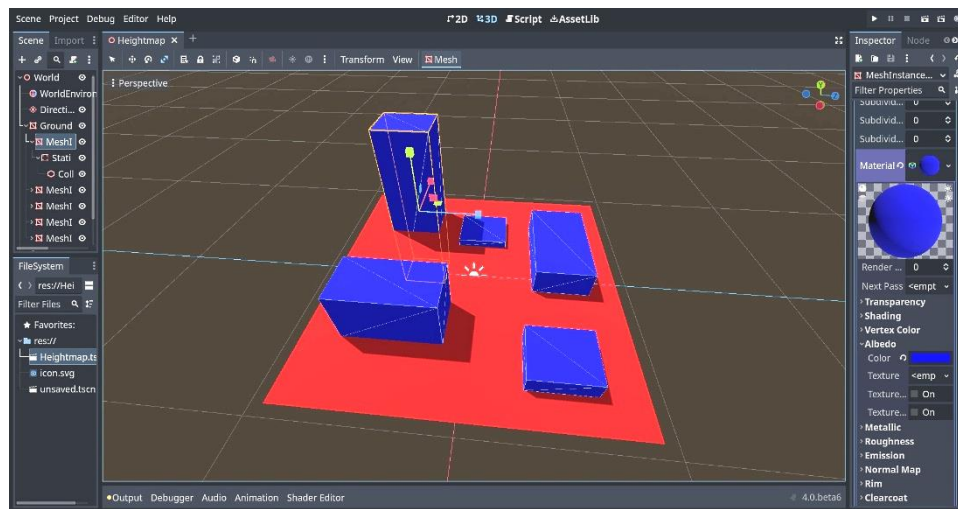


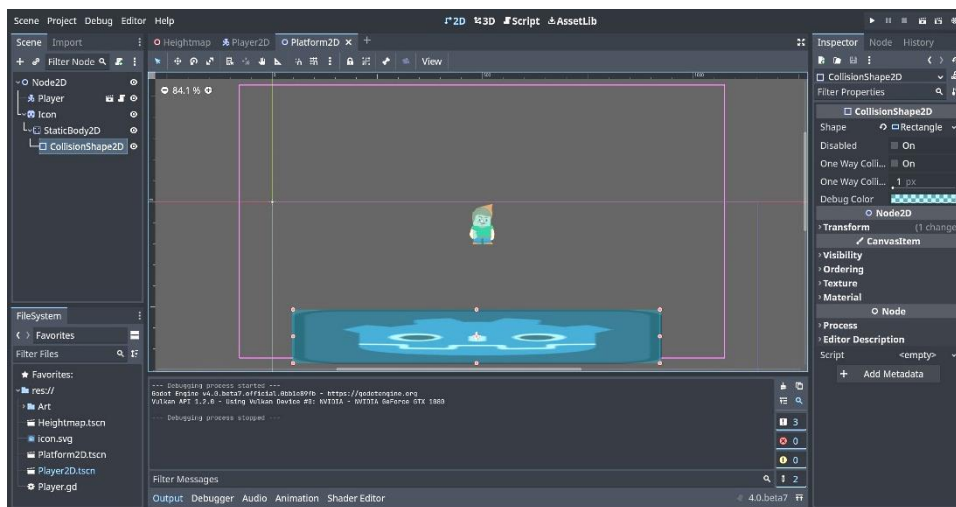
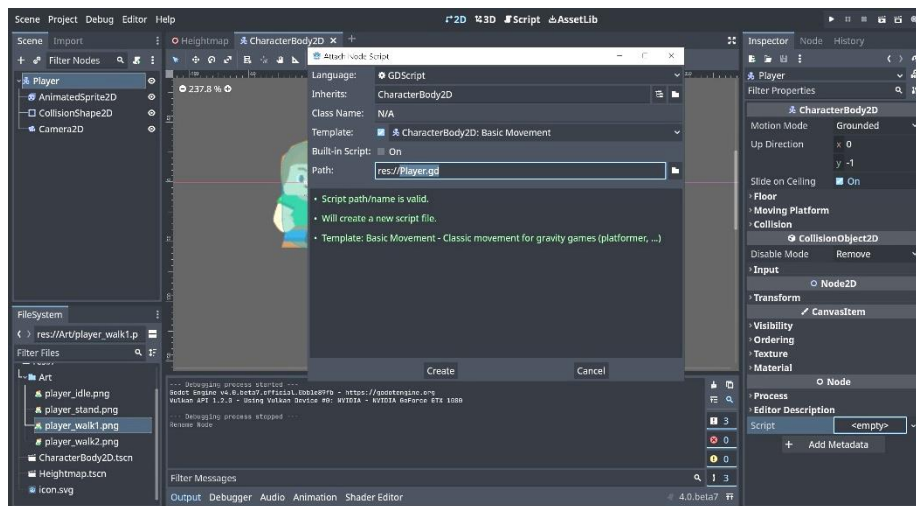
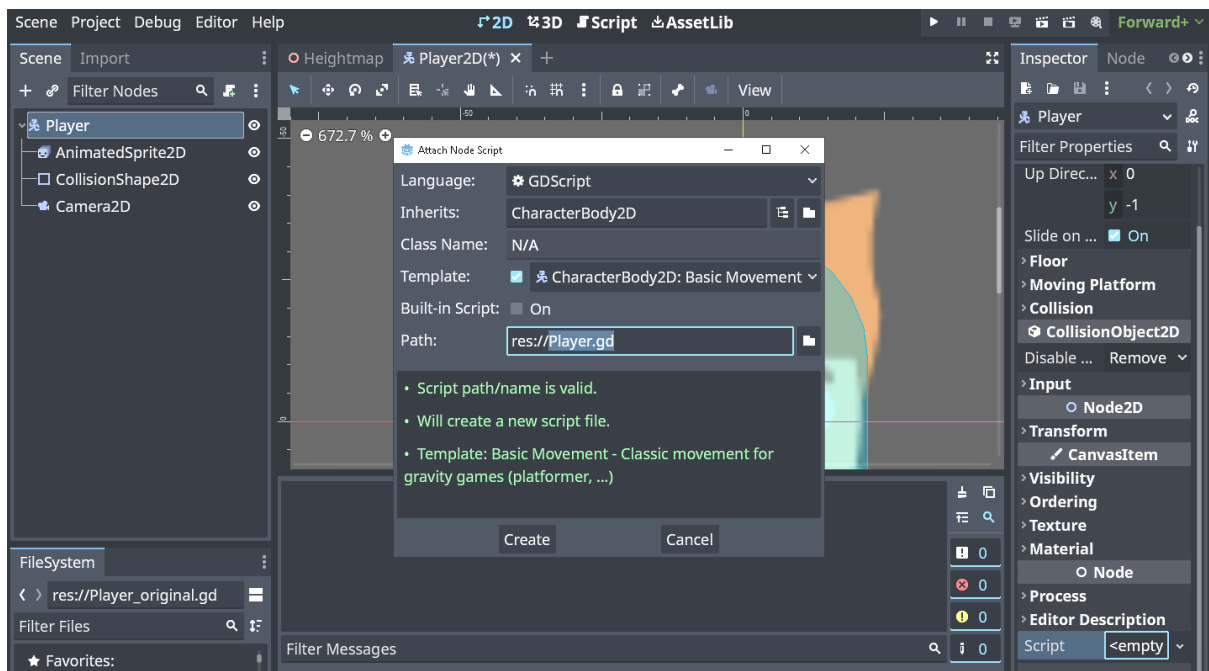


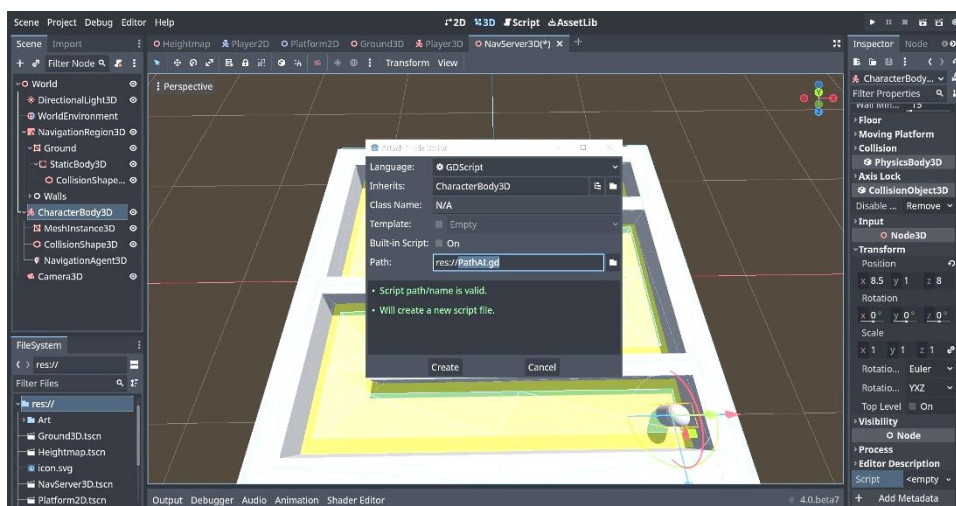
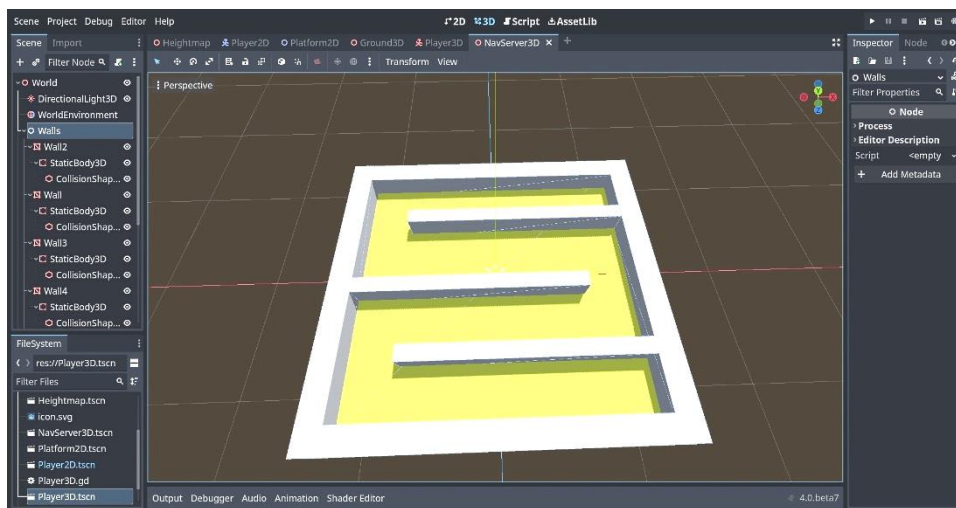
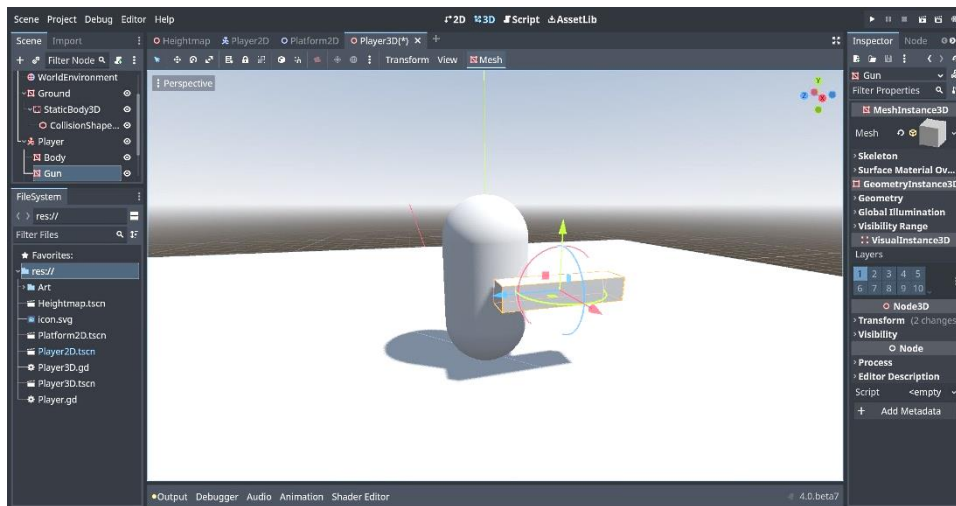




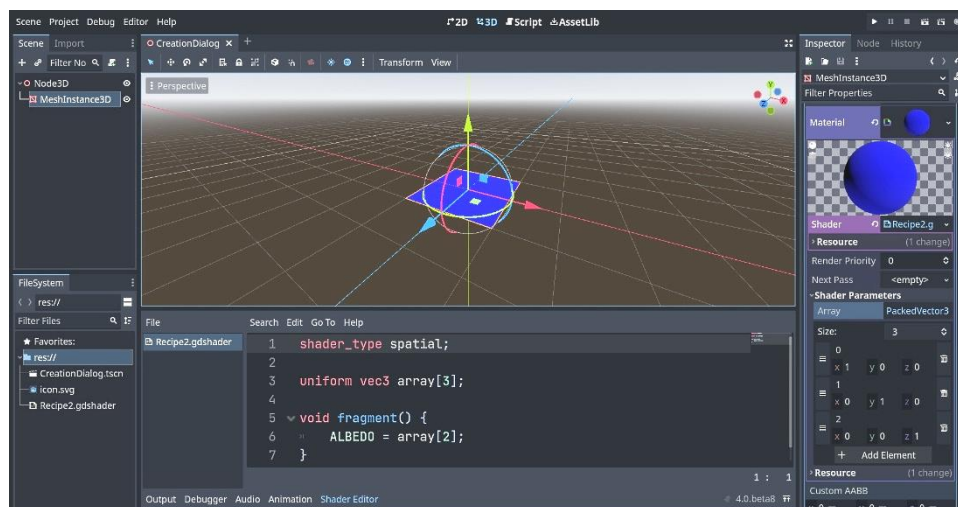
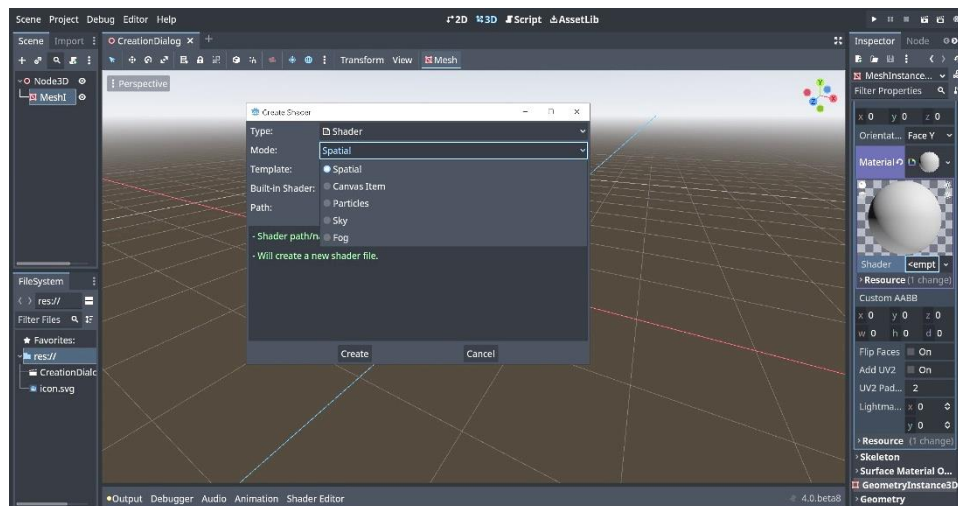
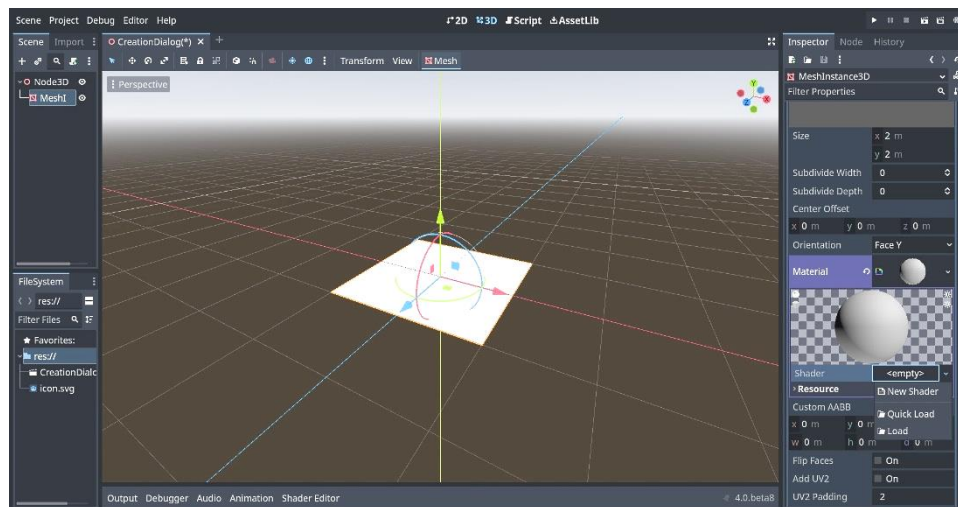
Chapter 04: Practicing Physics and Handling Navigation in Godot 4

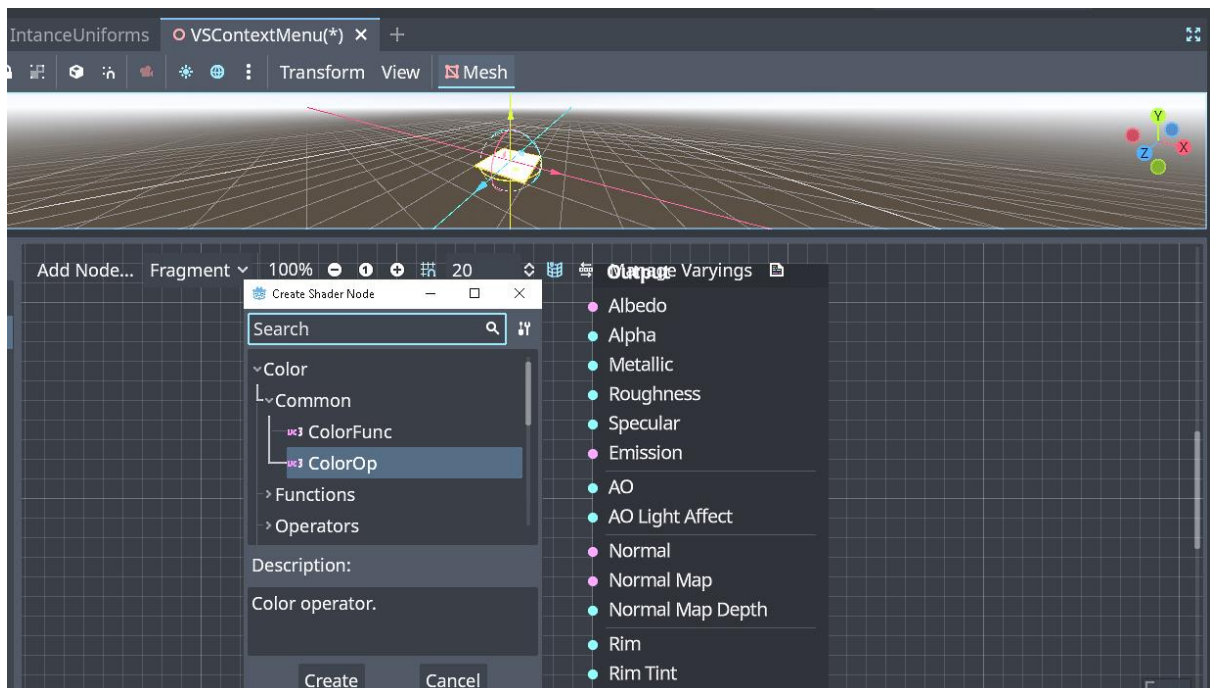
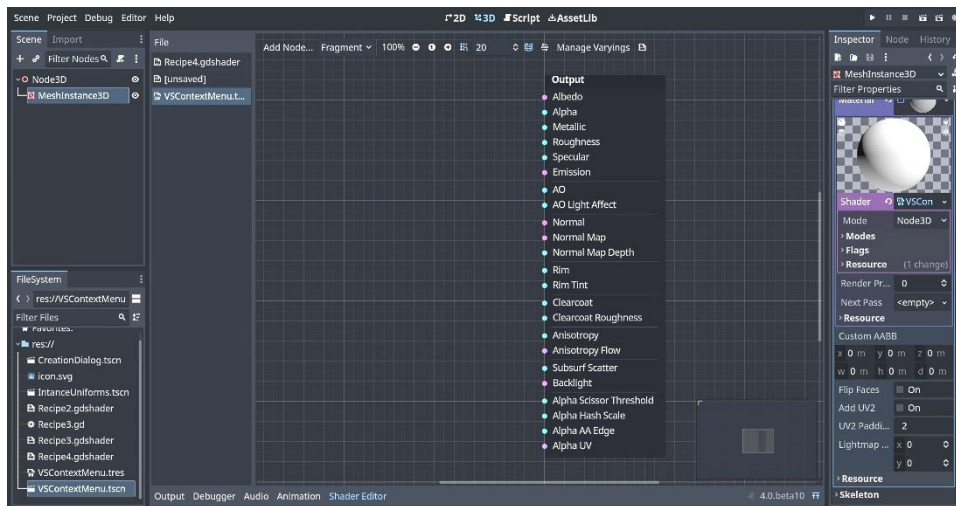
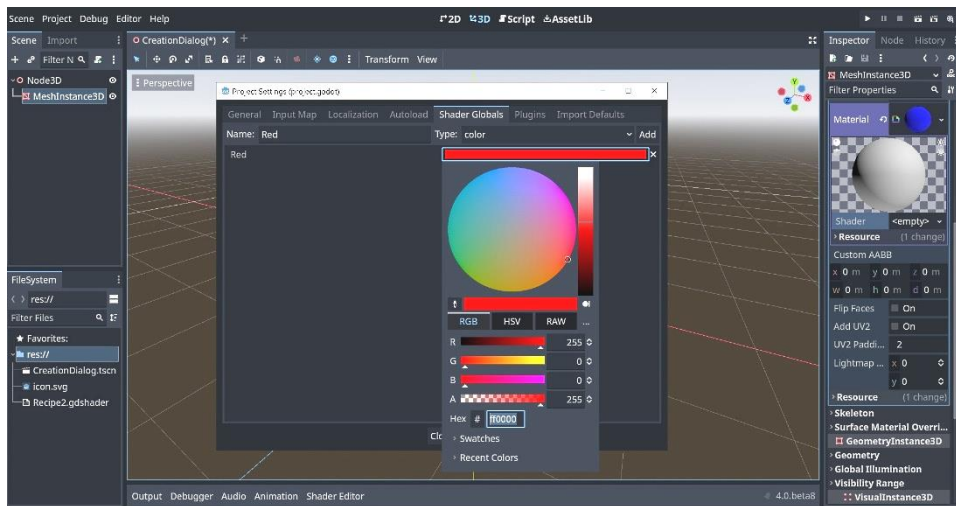


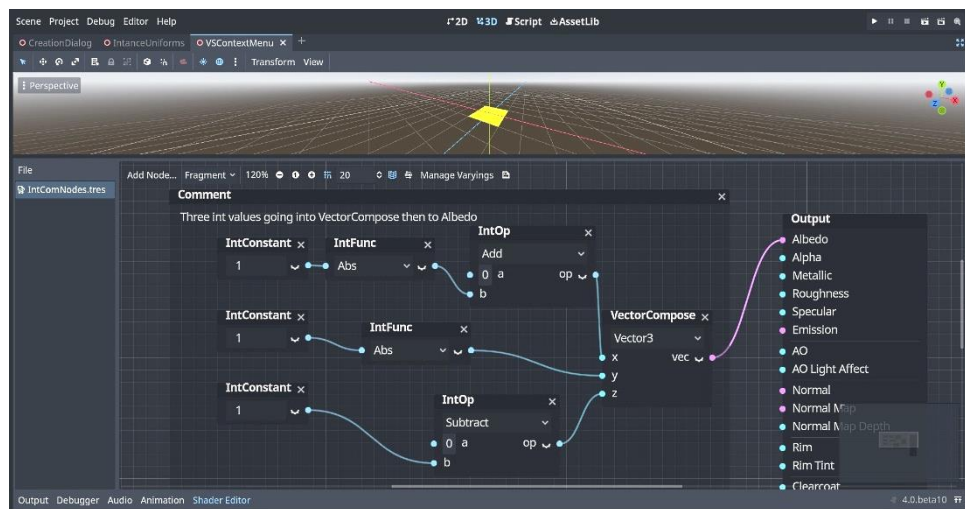
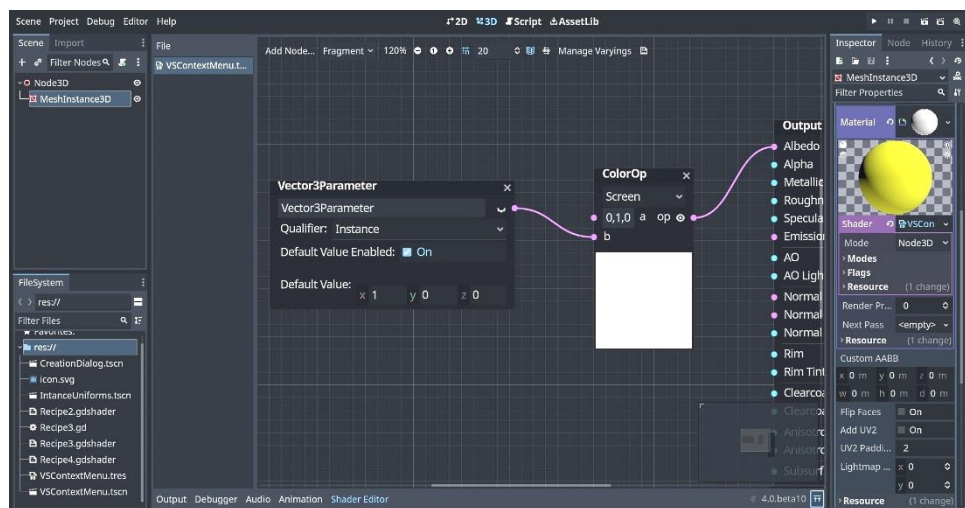
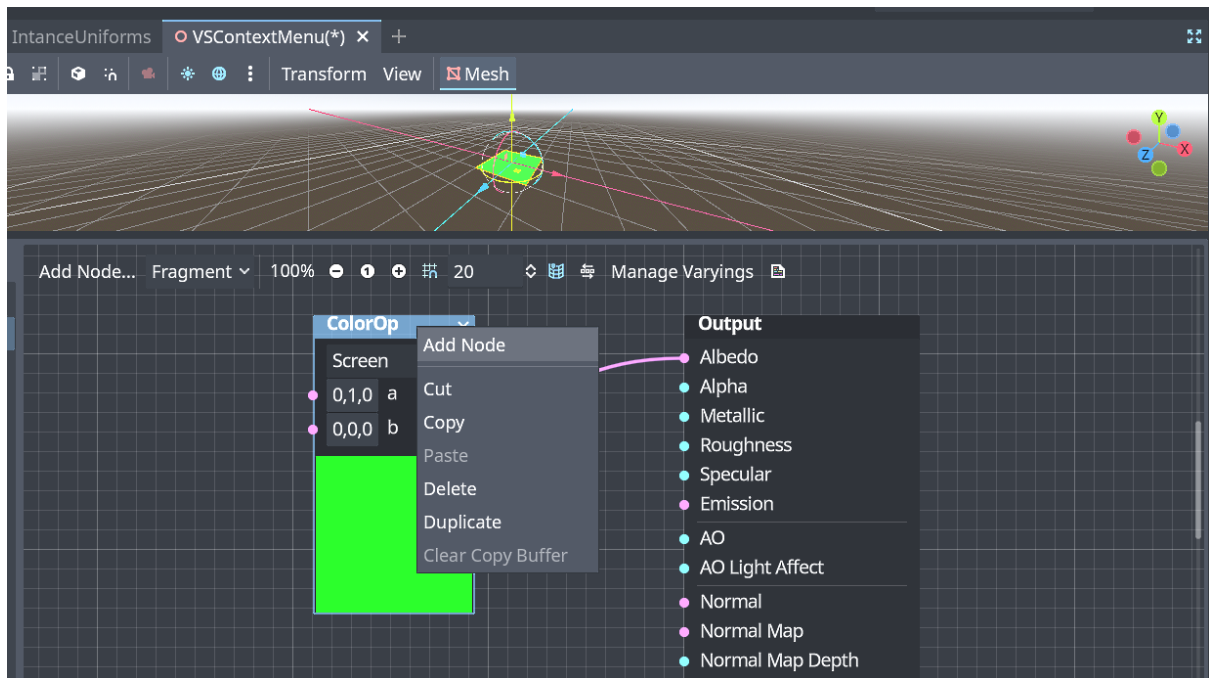


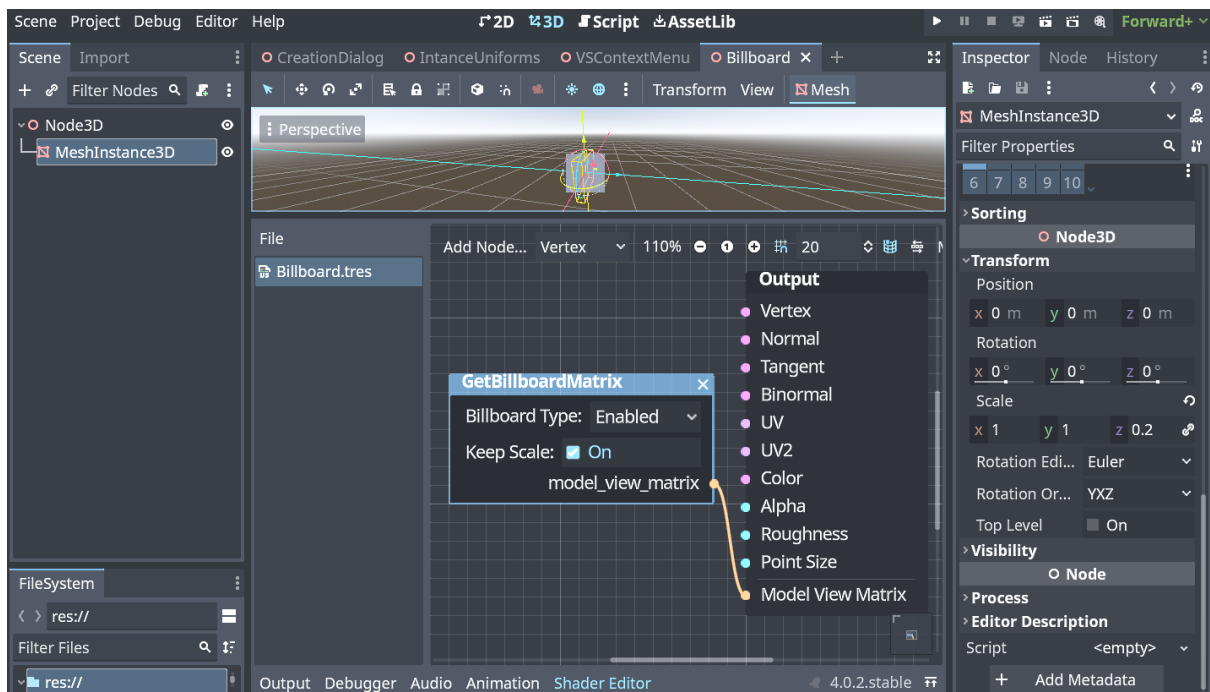
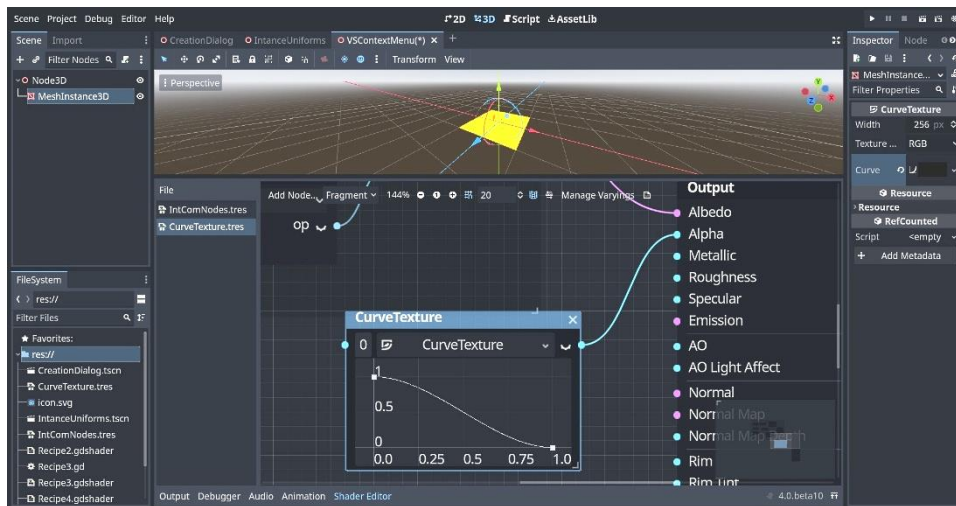


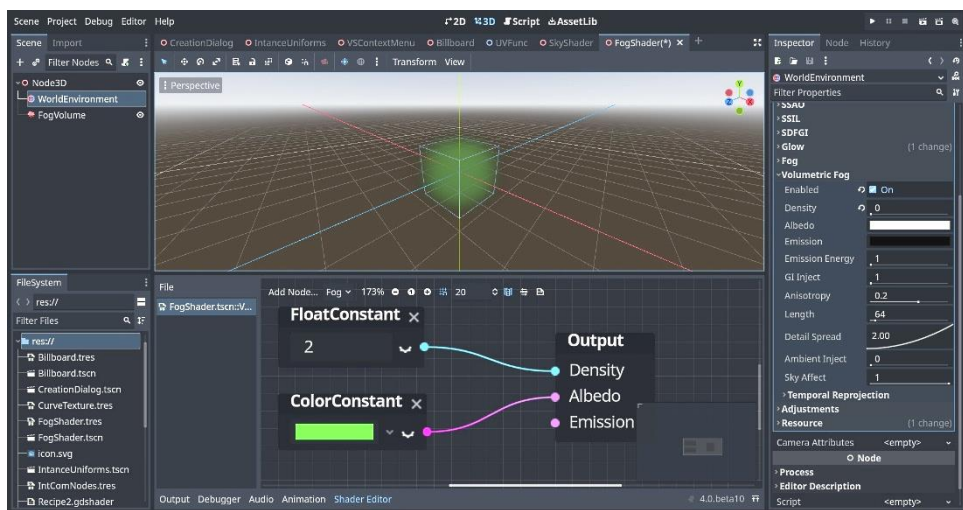
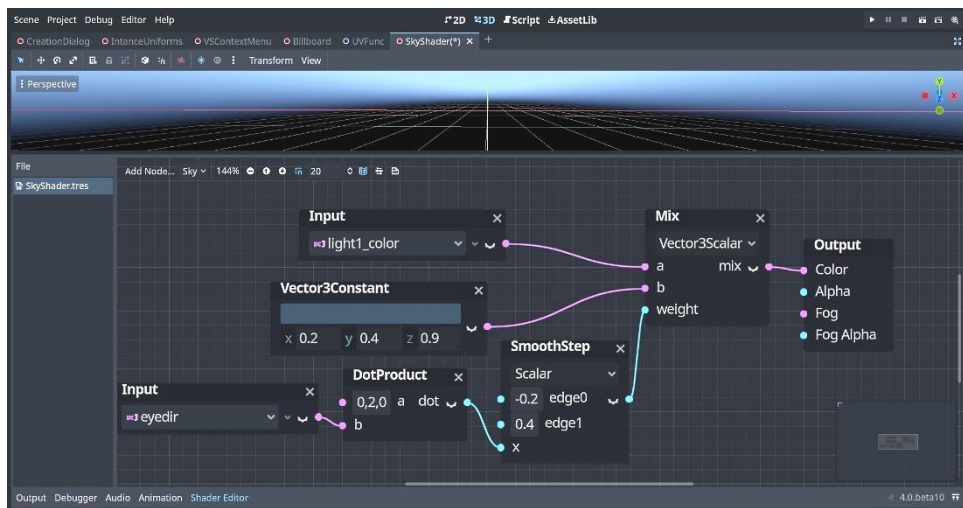
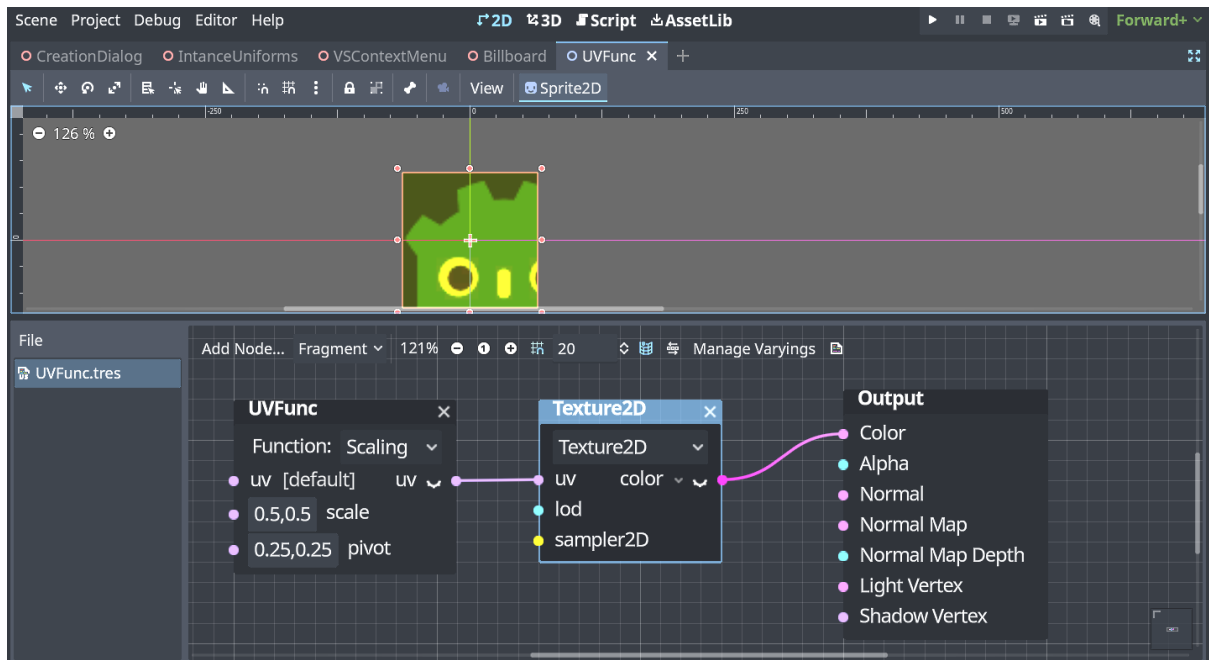
Chapter 05: Playing with Shaders in Godot 4



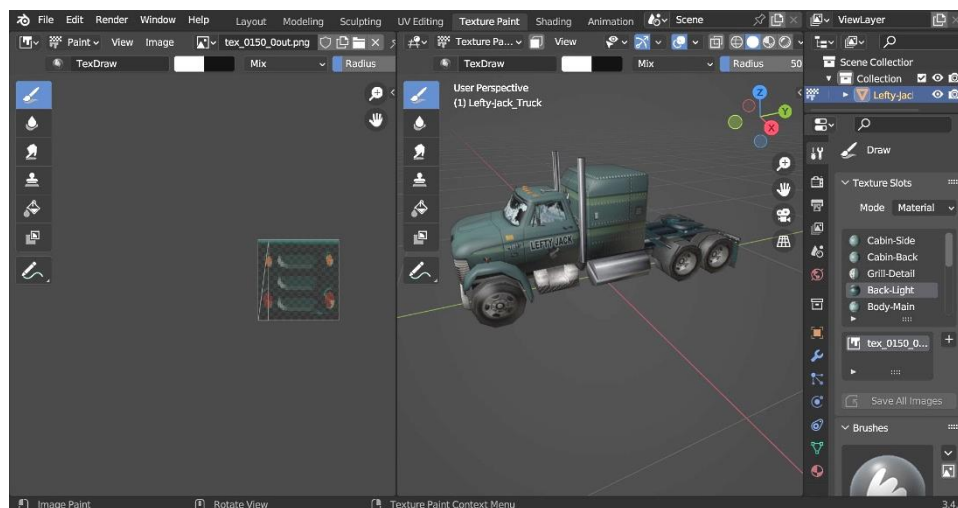
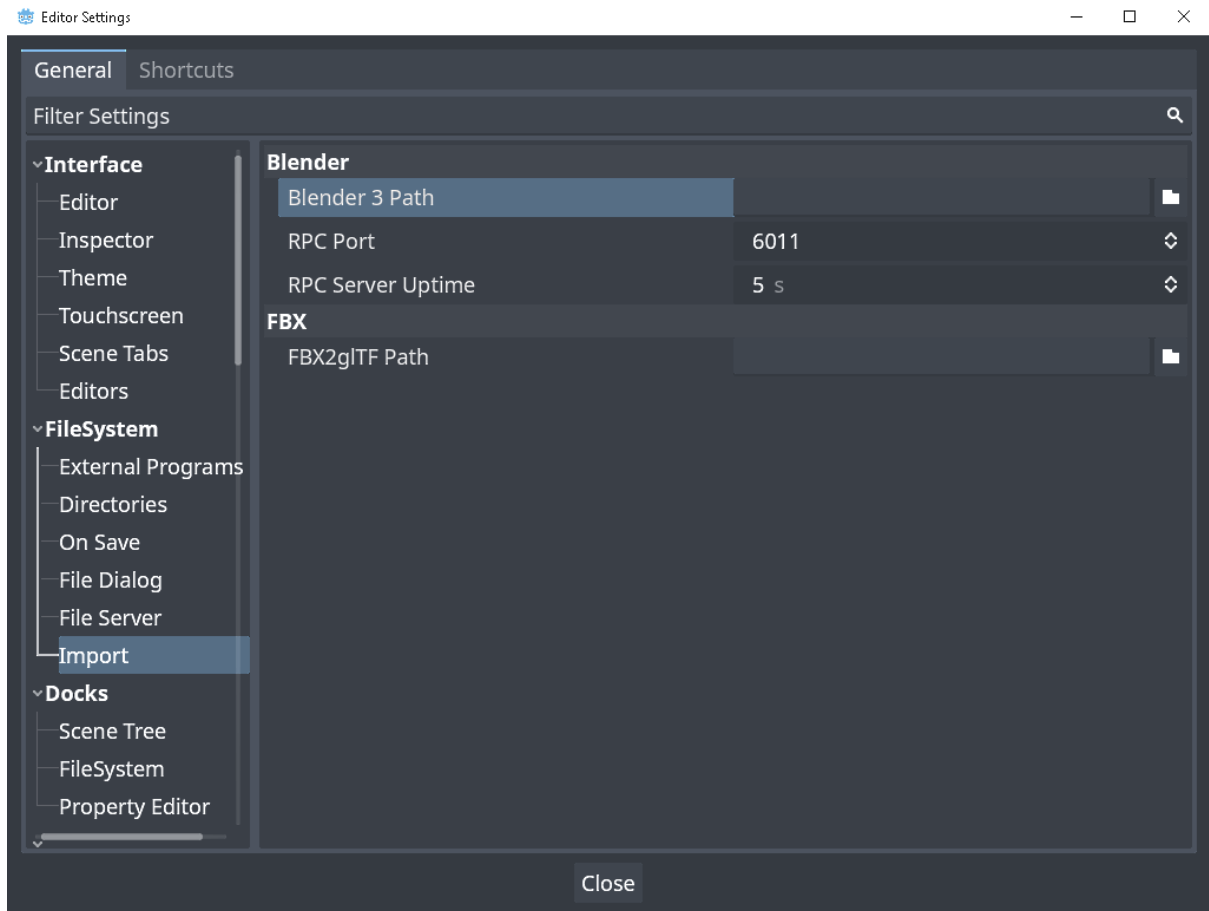


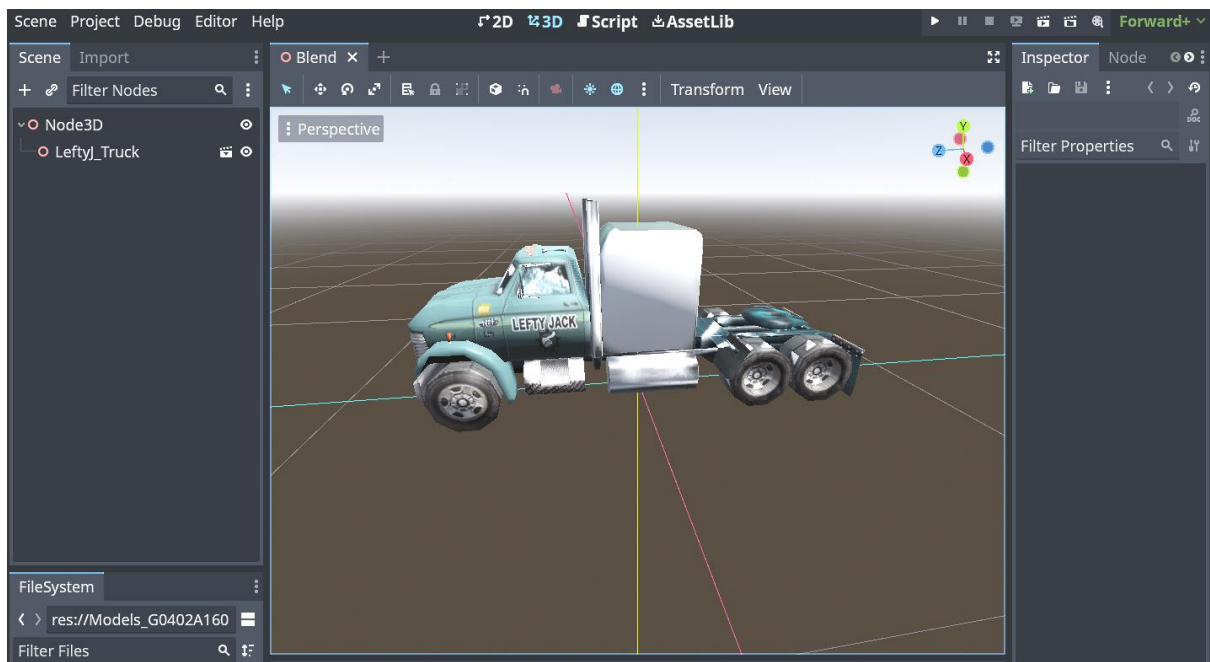


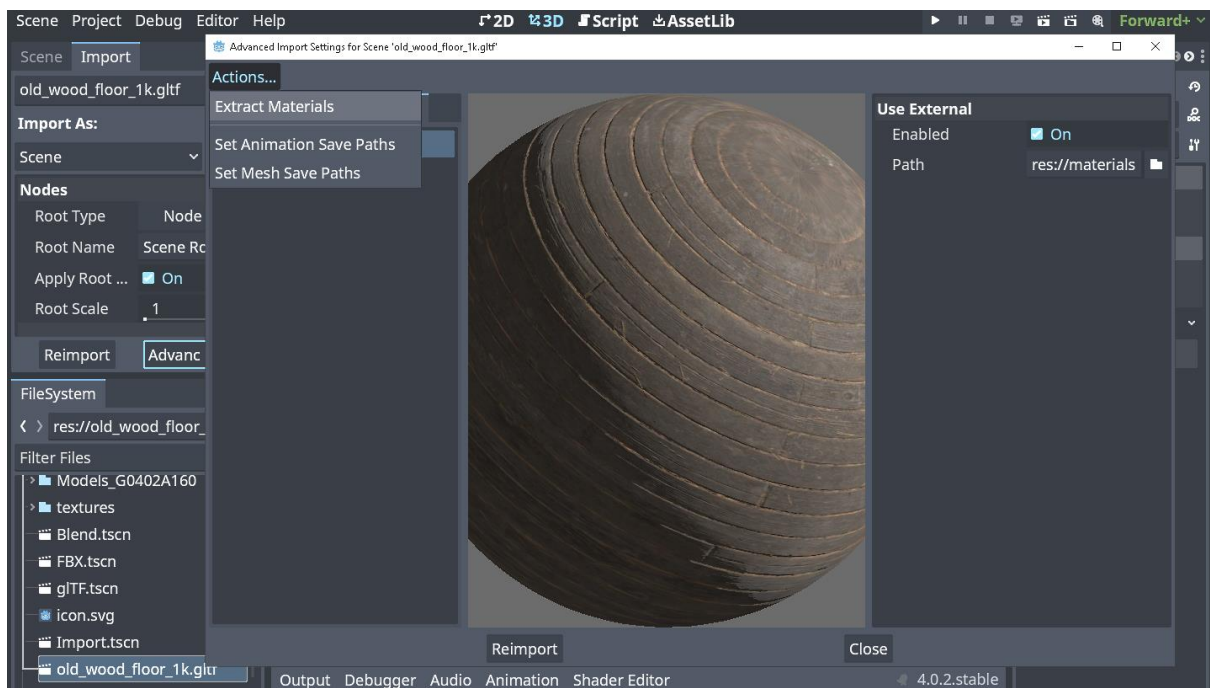
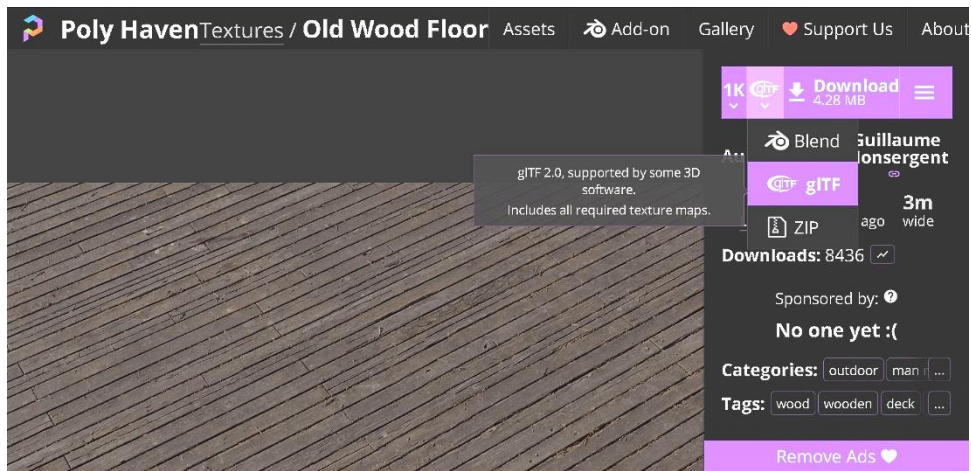




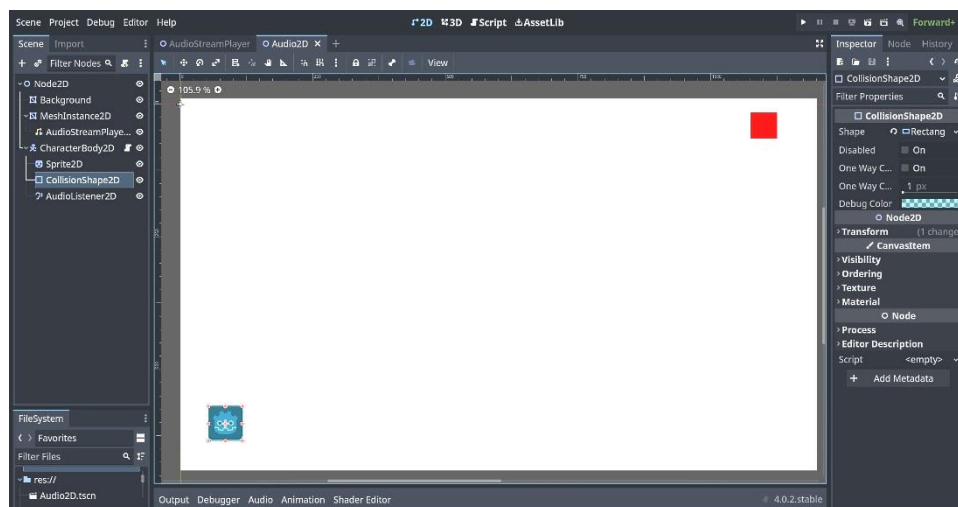
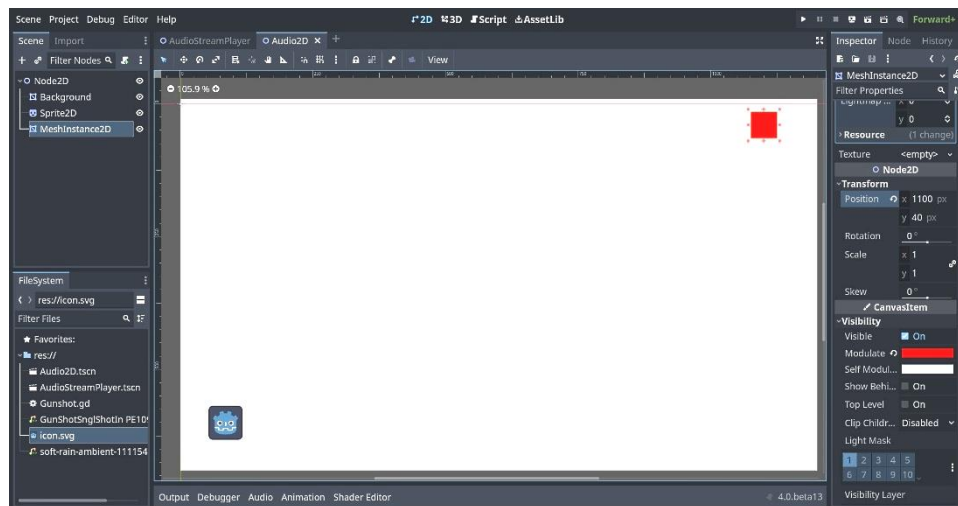
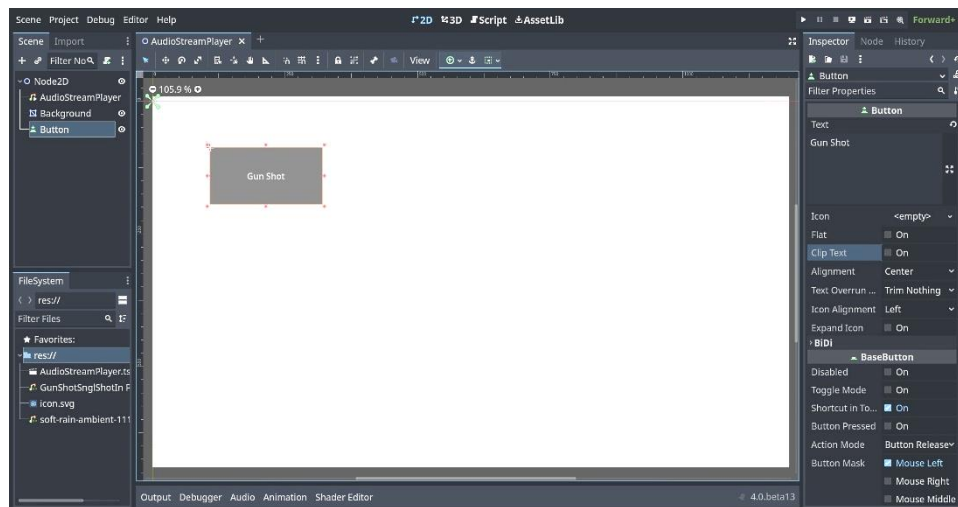
Chapter 06: Importing 3D Assets into Godot 4

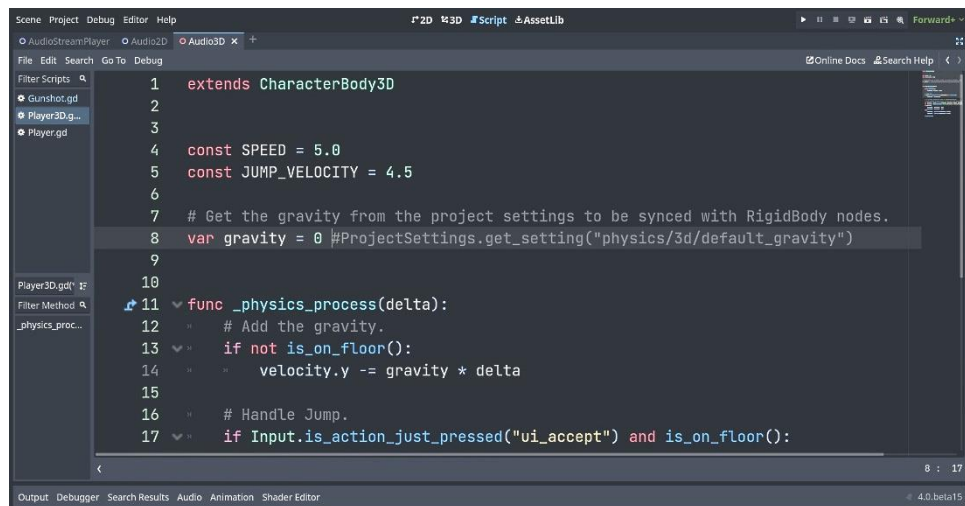
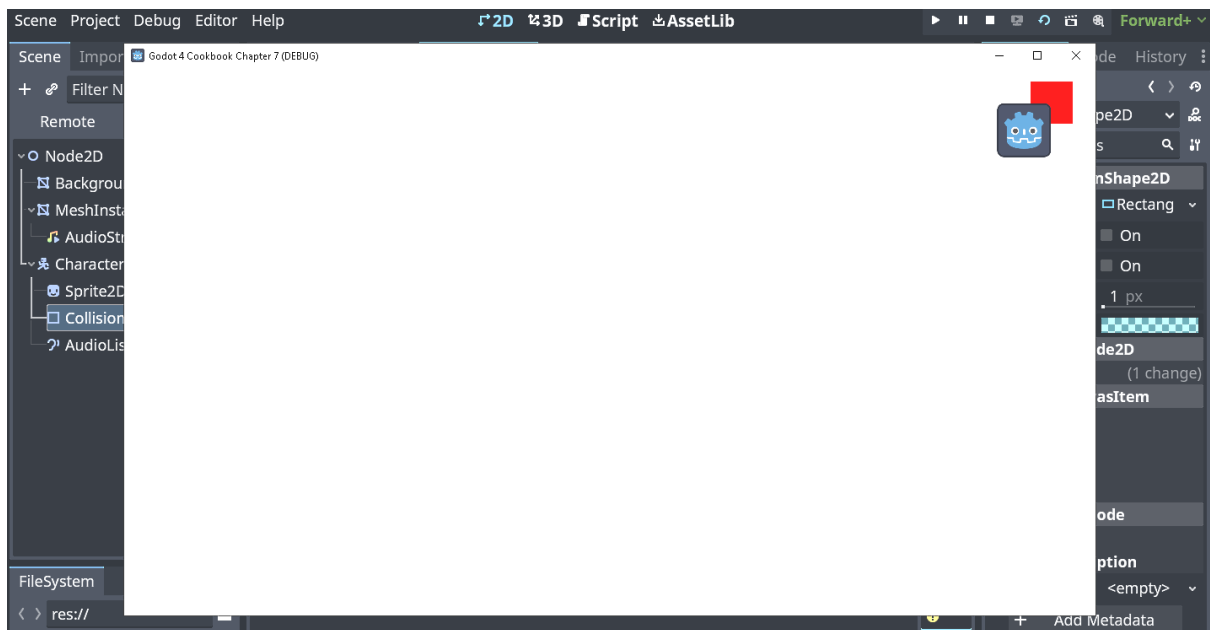


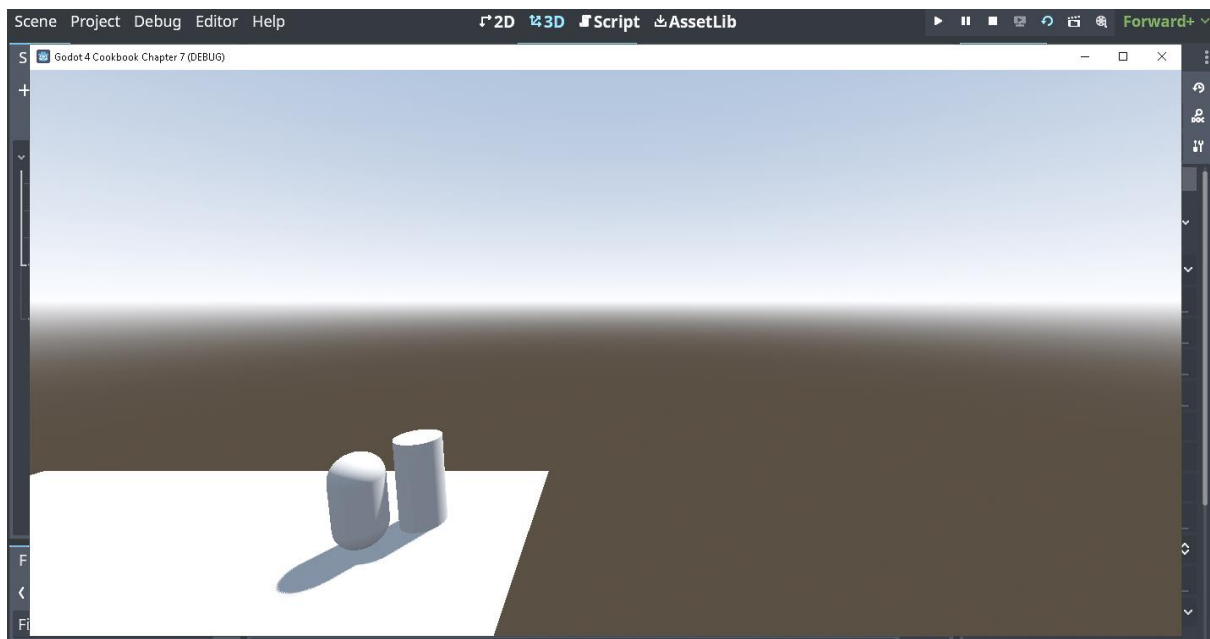
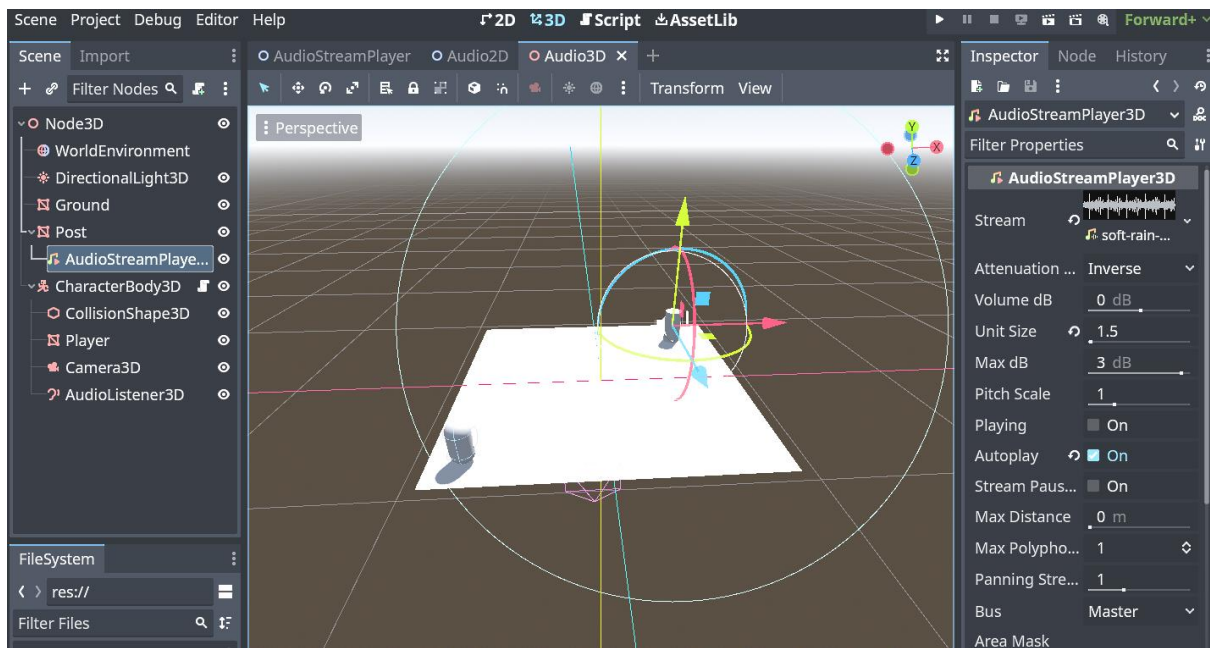




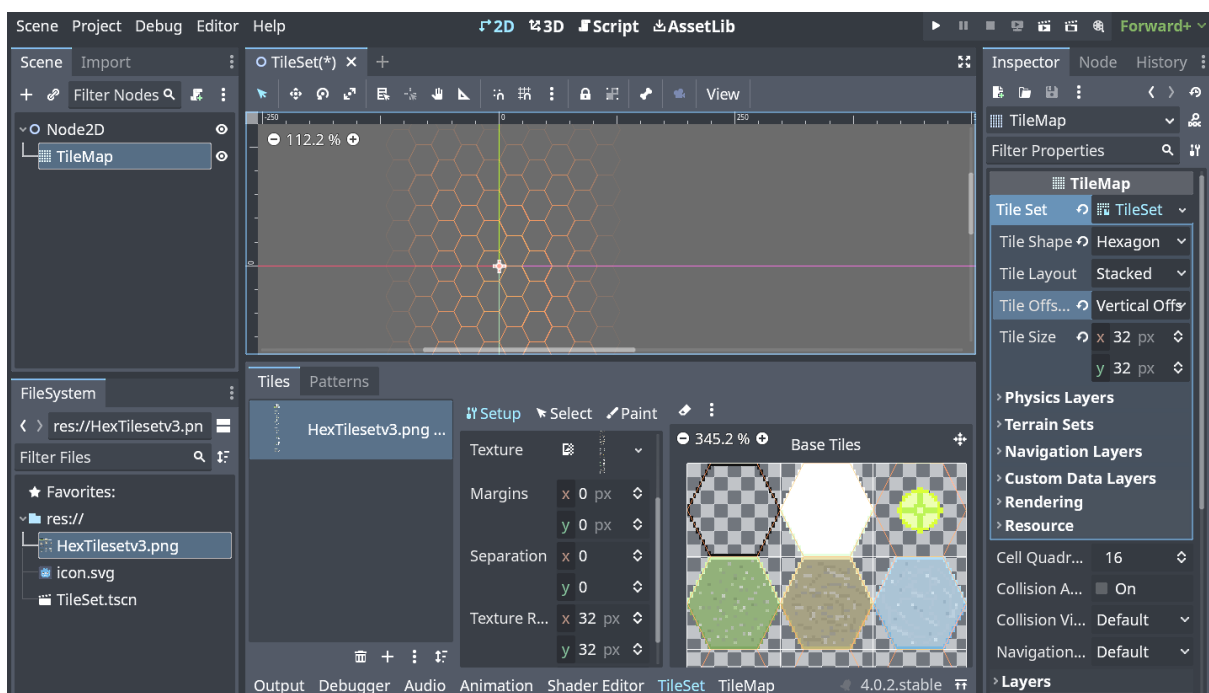
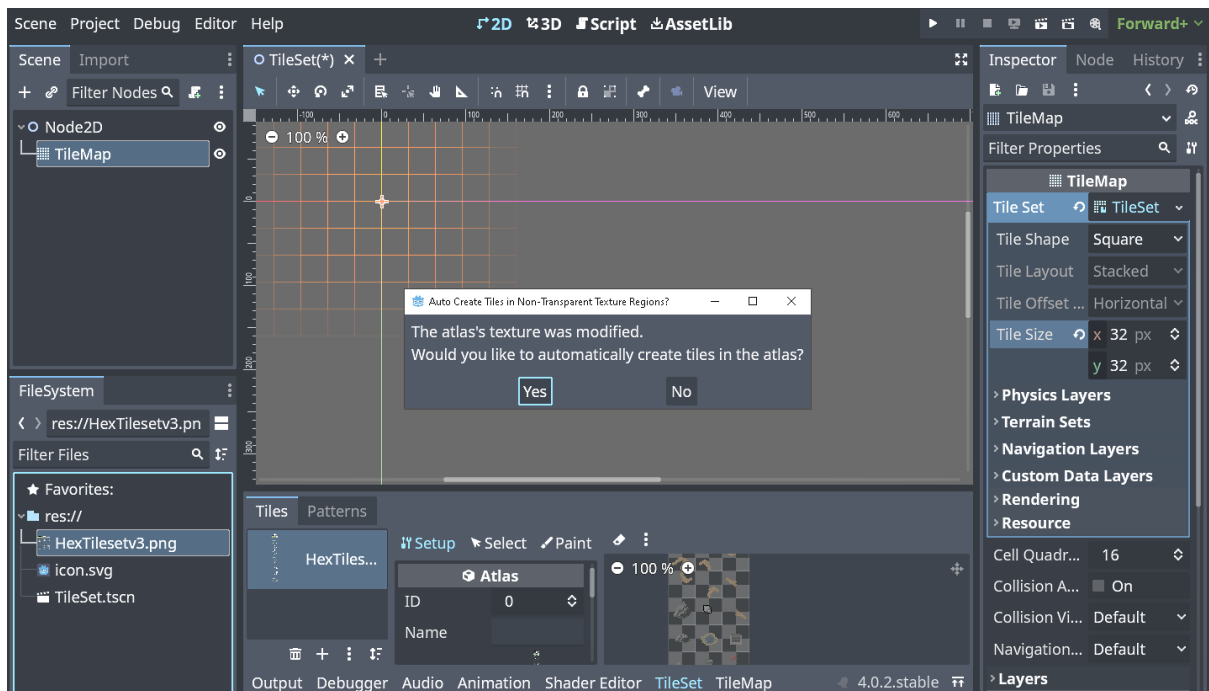
Chapter 07: Adding Sound and Music to Your Game

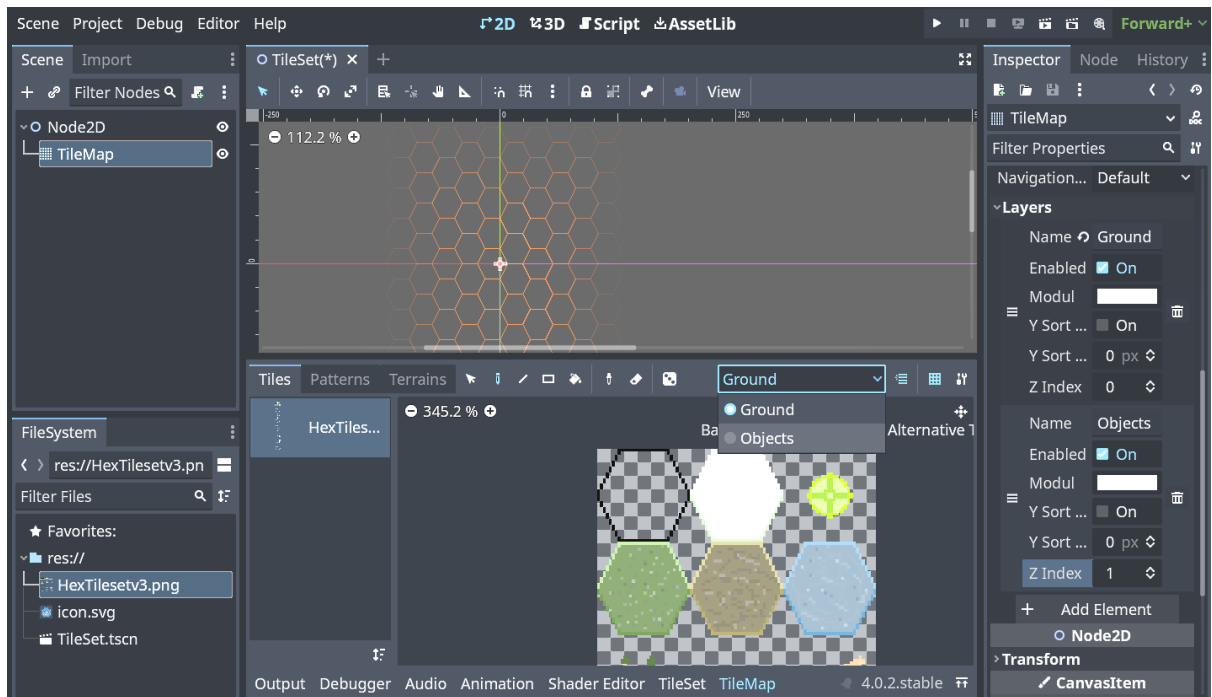
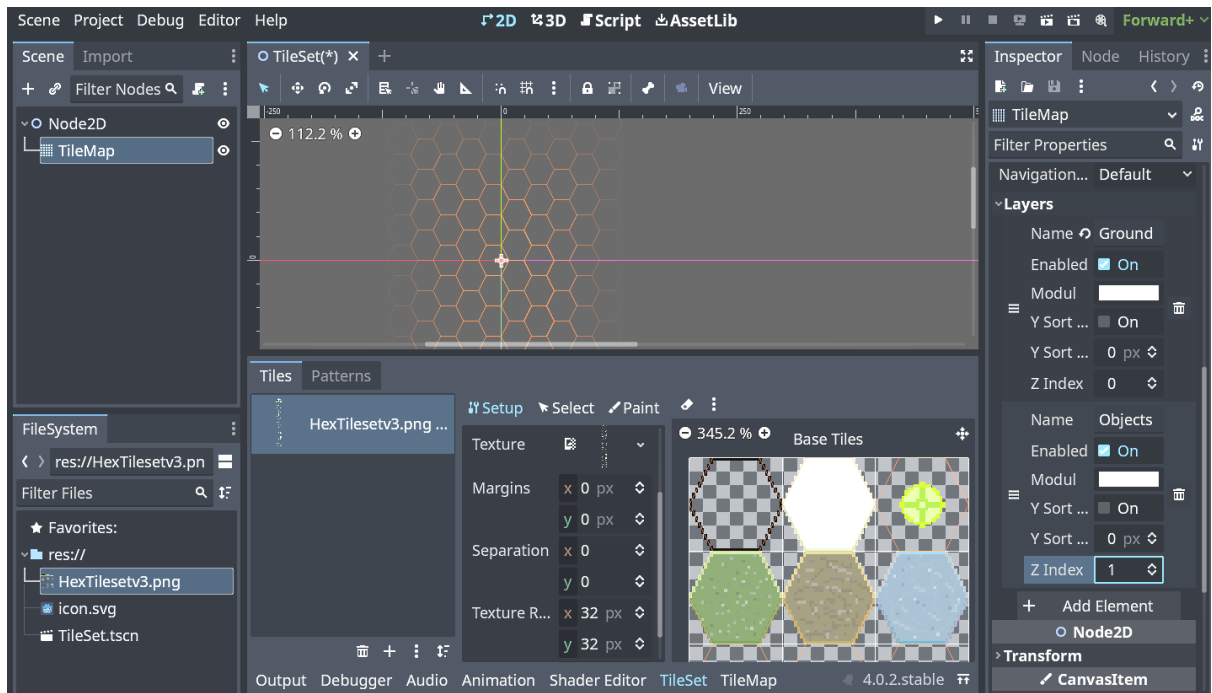


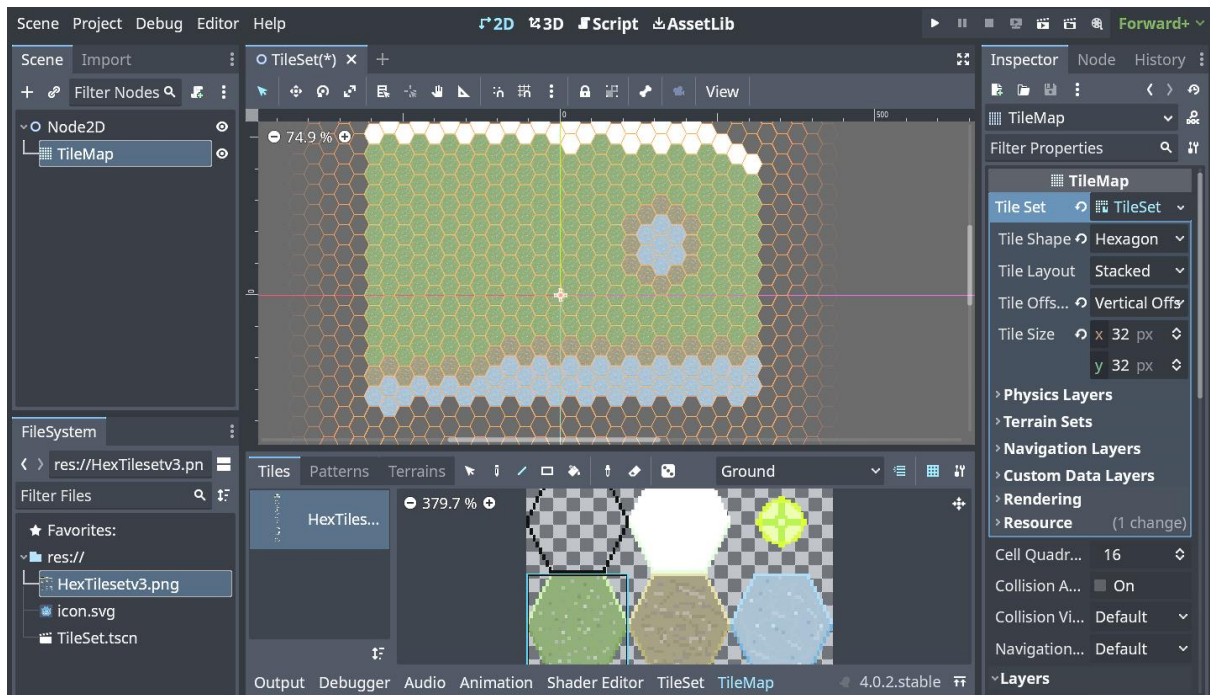
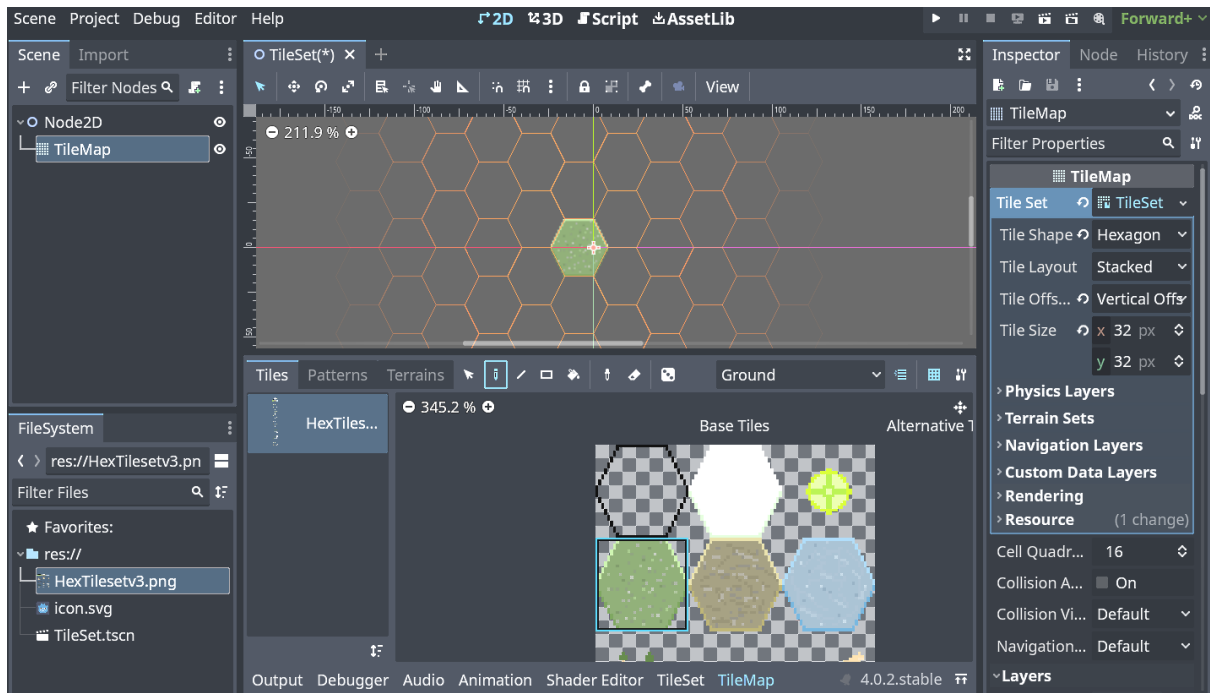


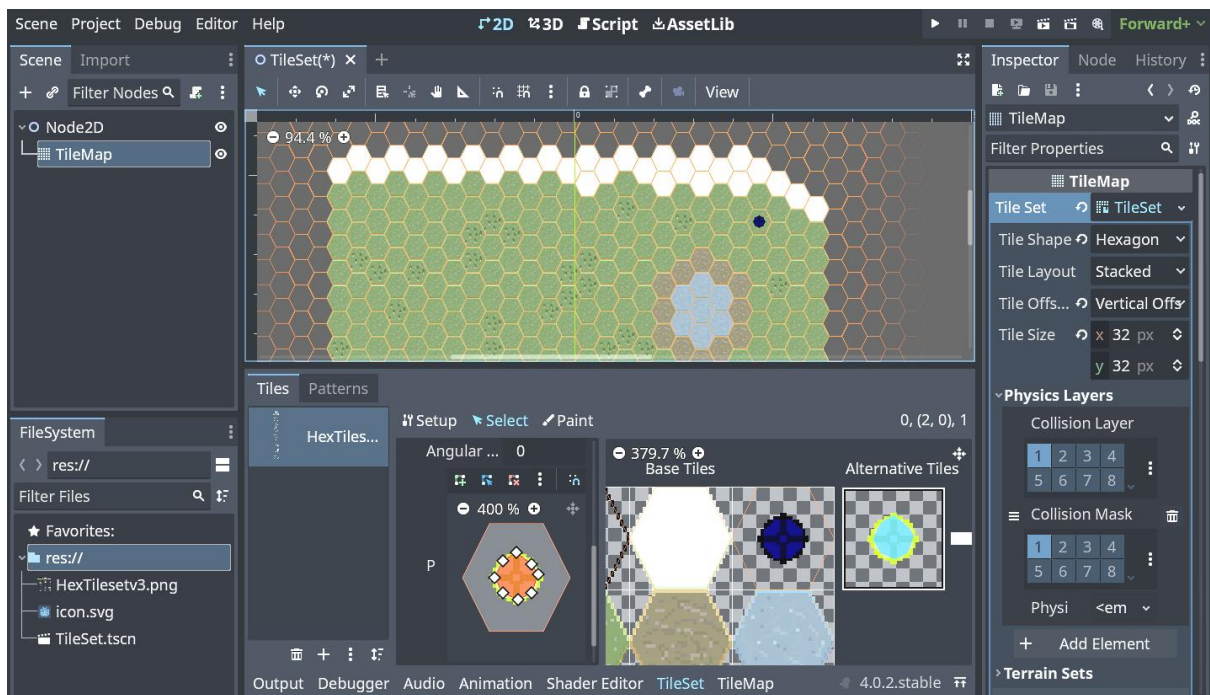
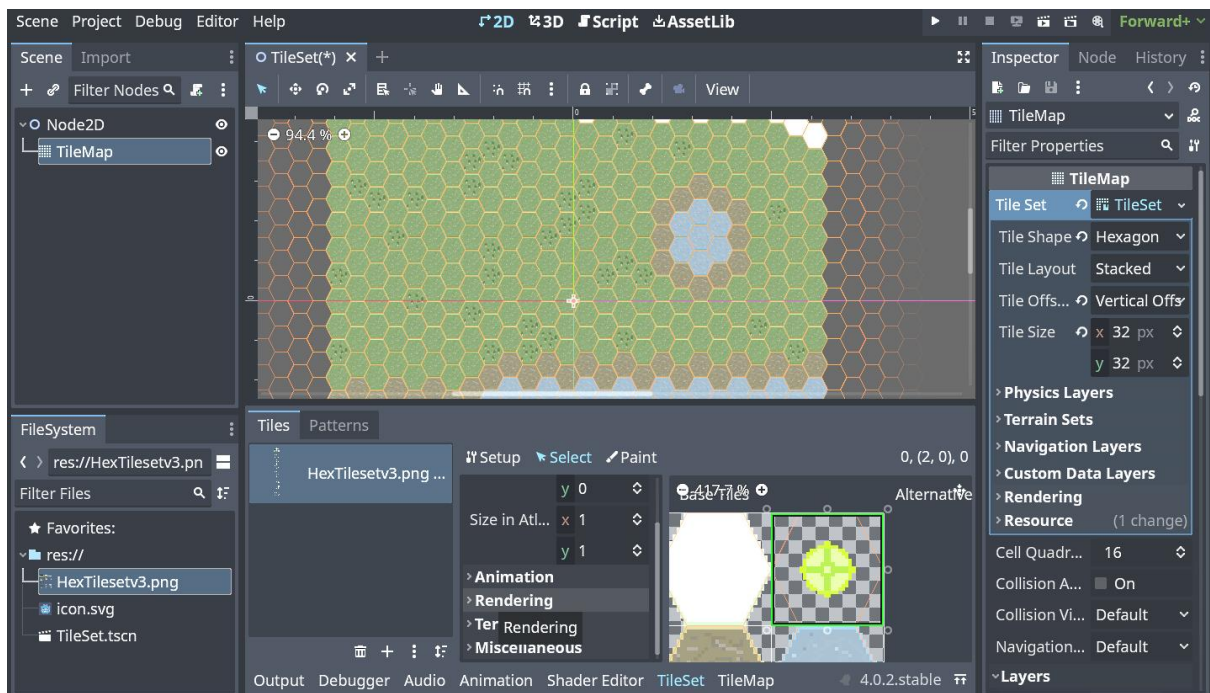


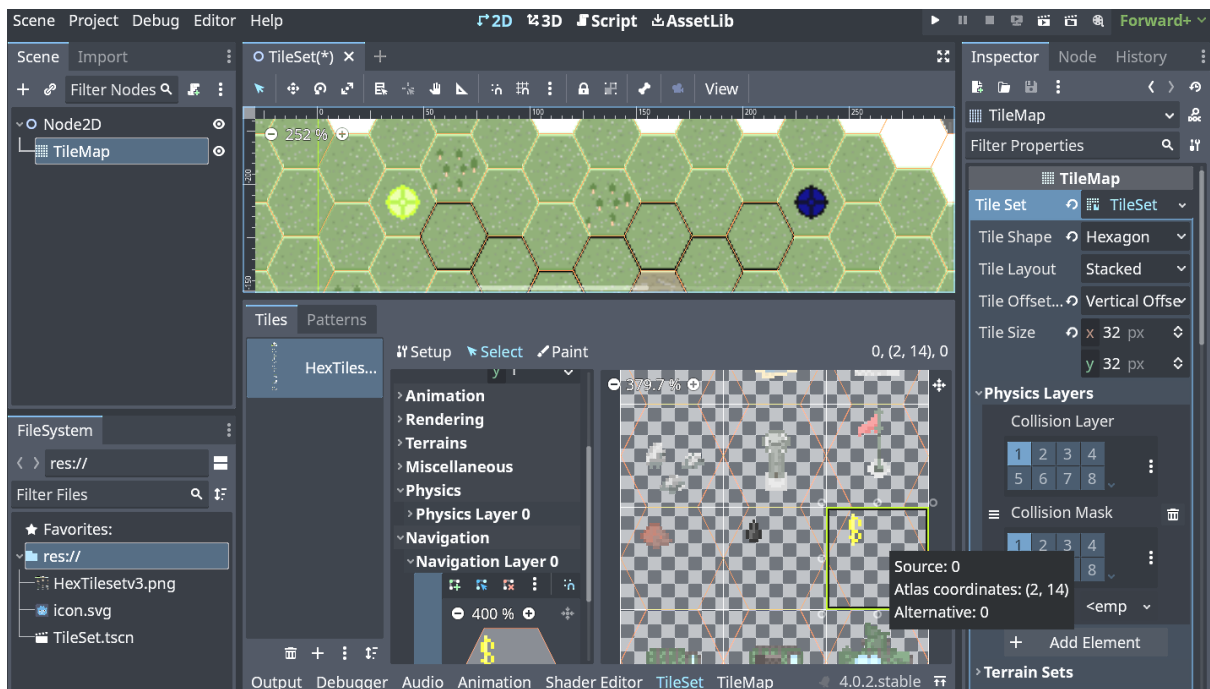
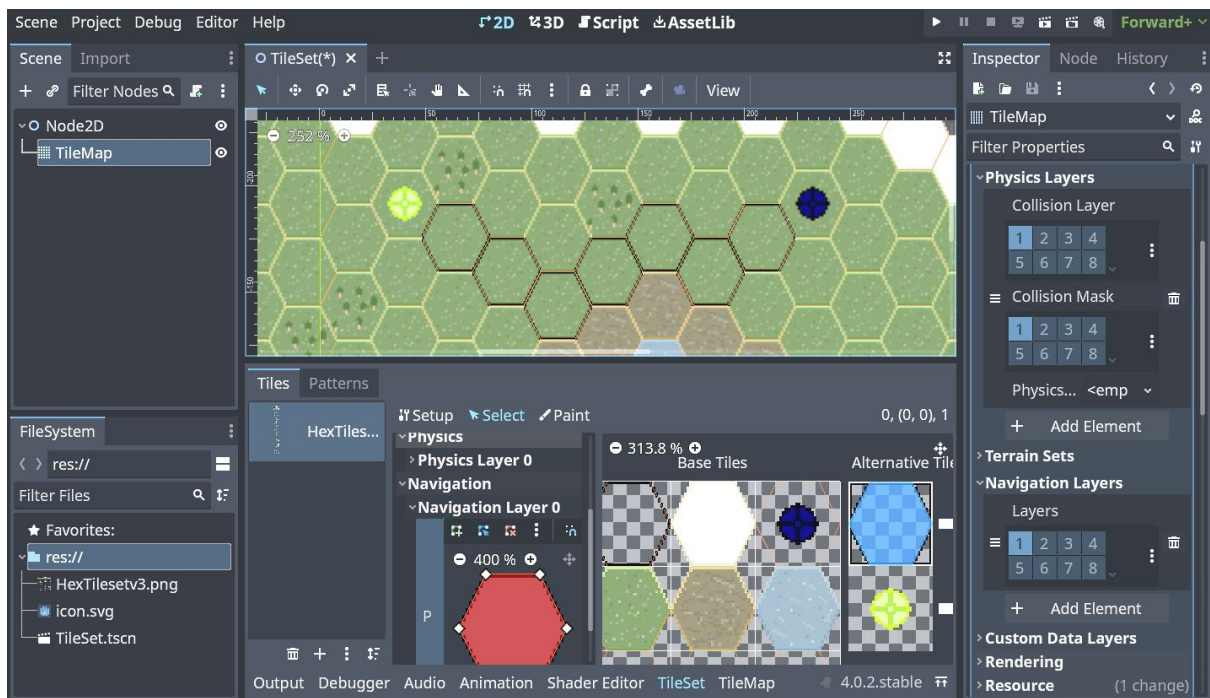
Chapter 08: Making 2D Games Easier with TileSet and TileMap

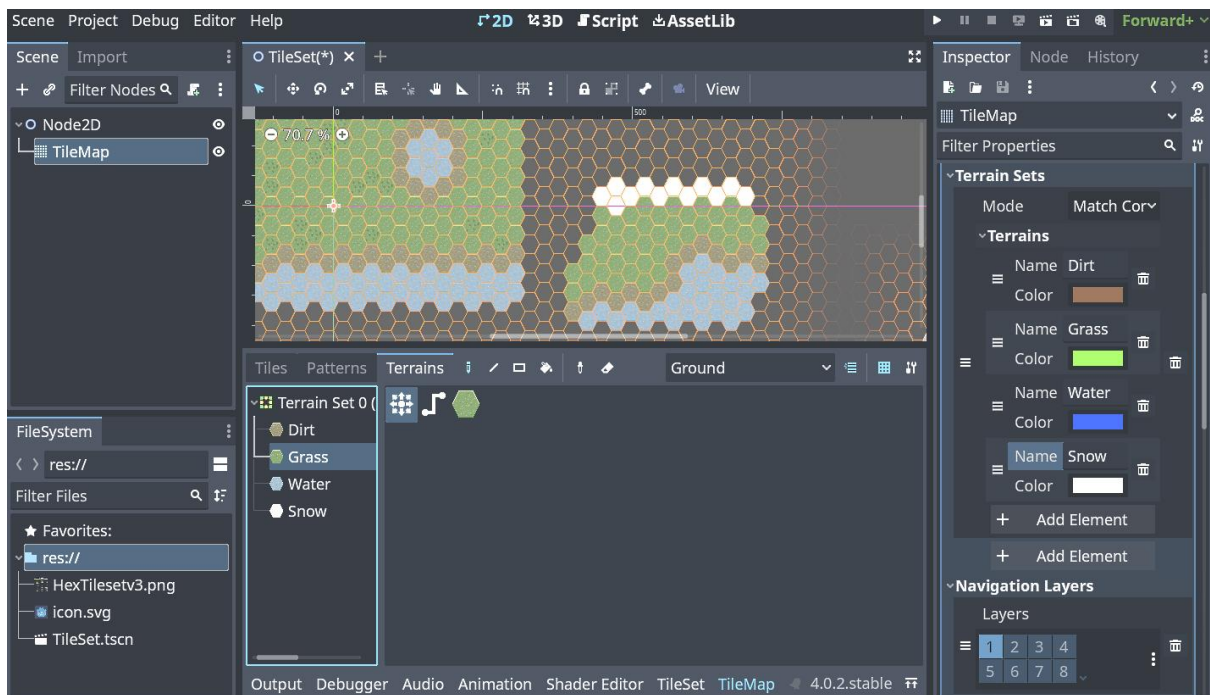
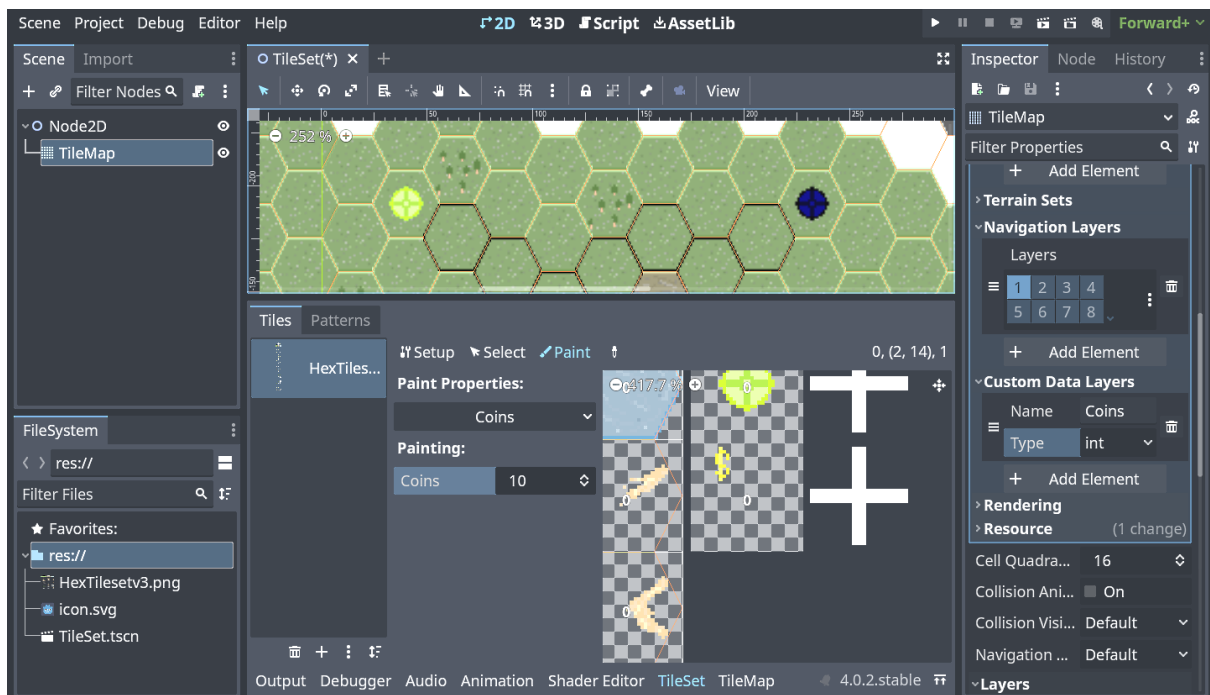


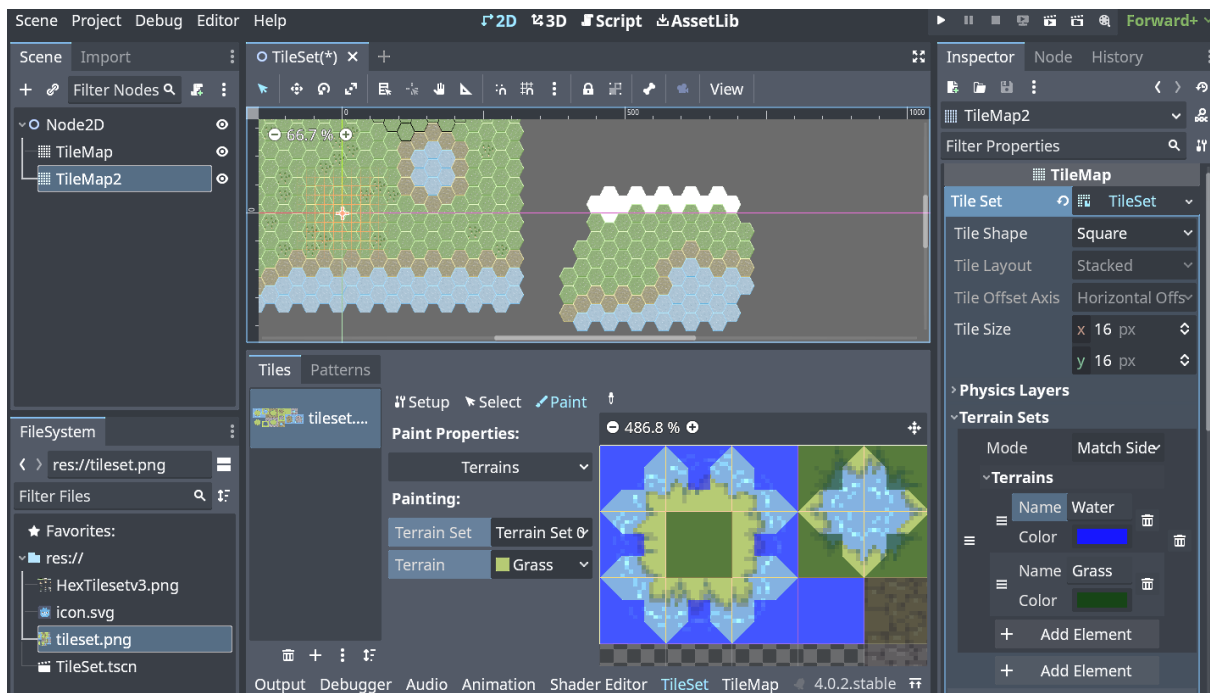
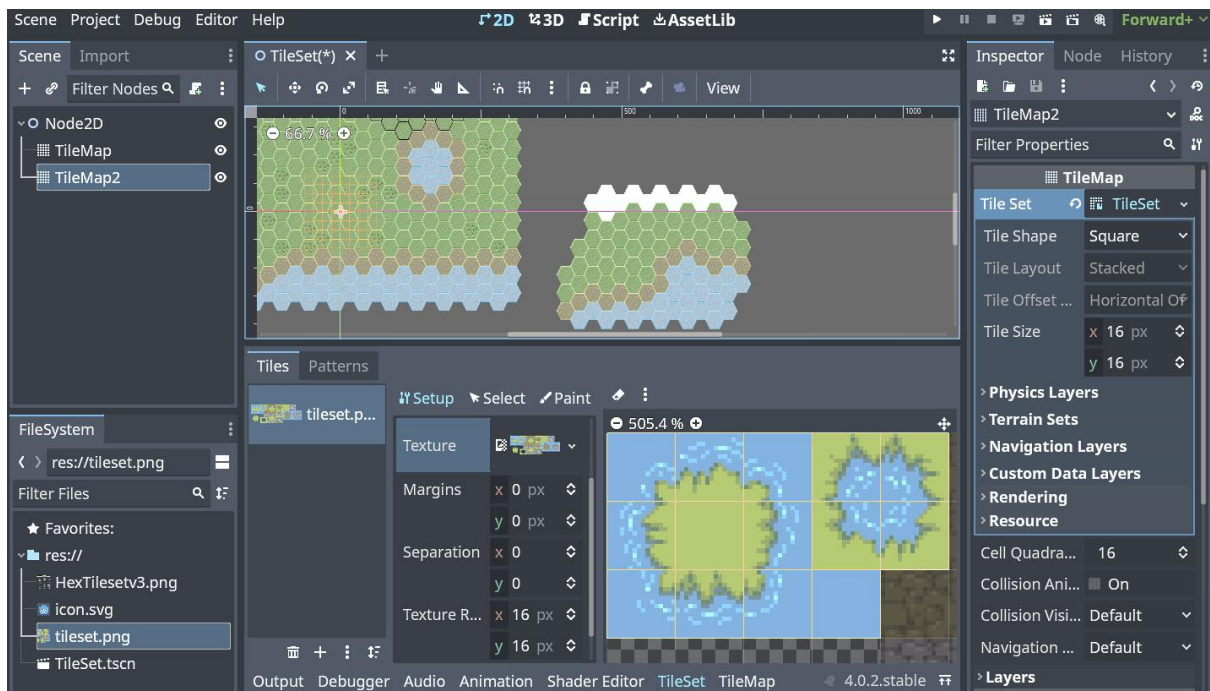


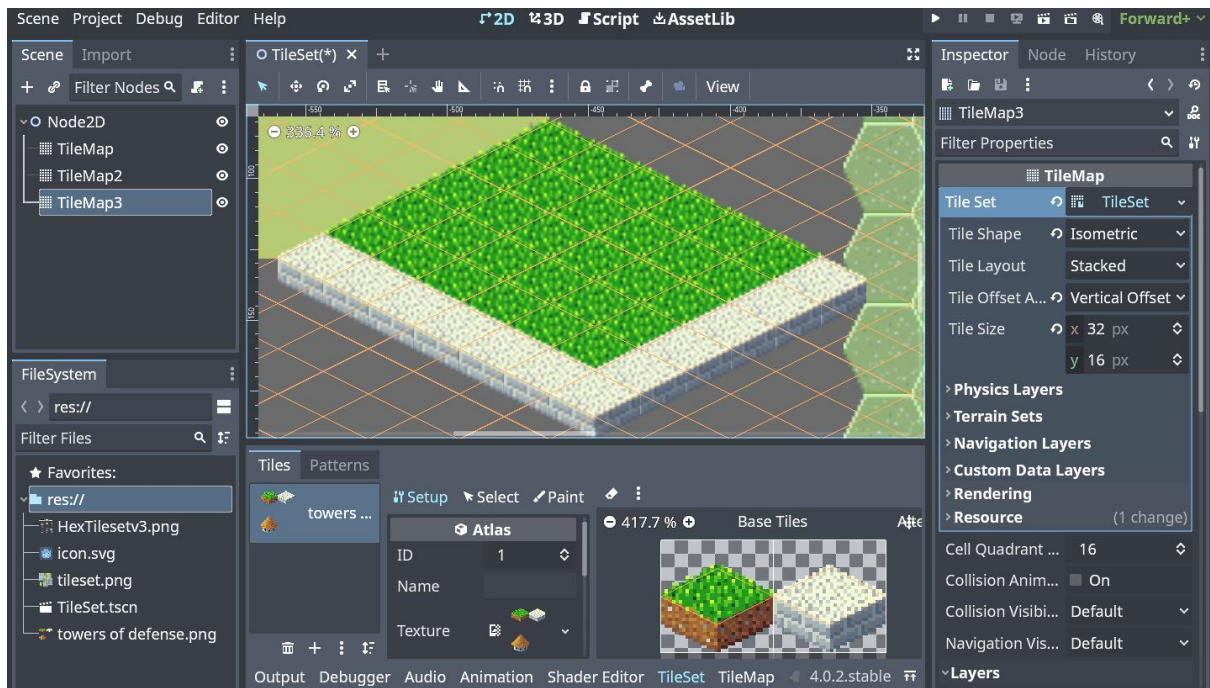
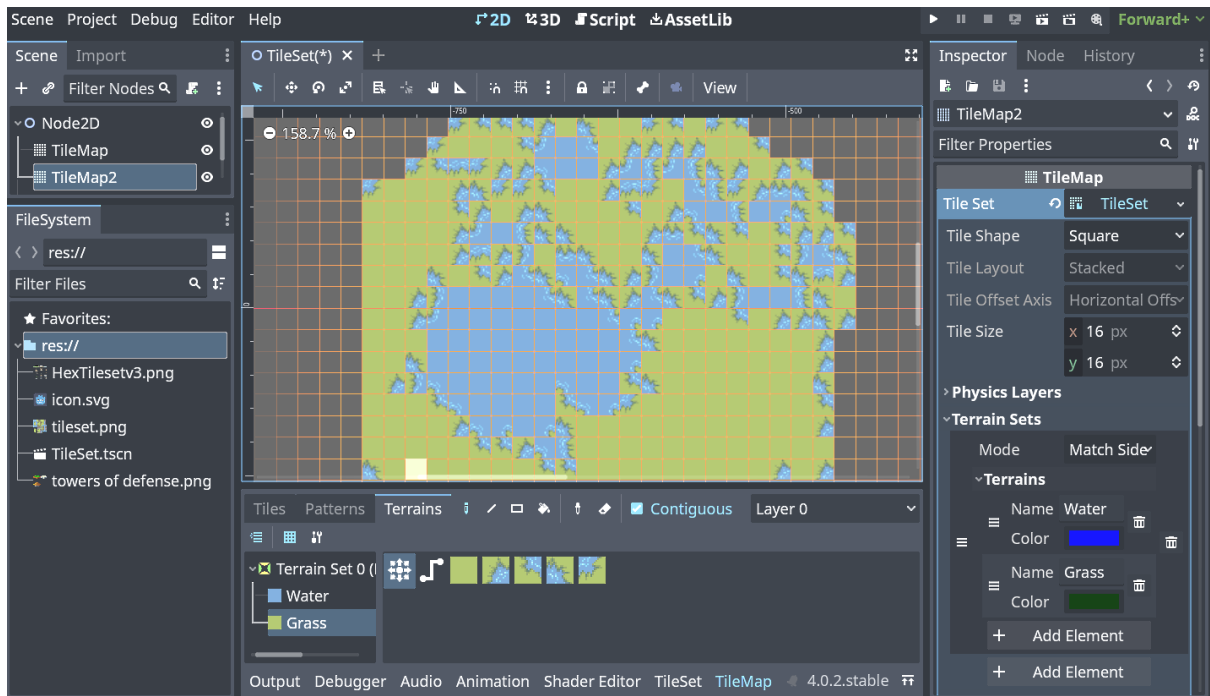




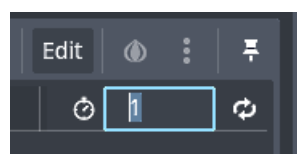
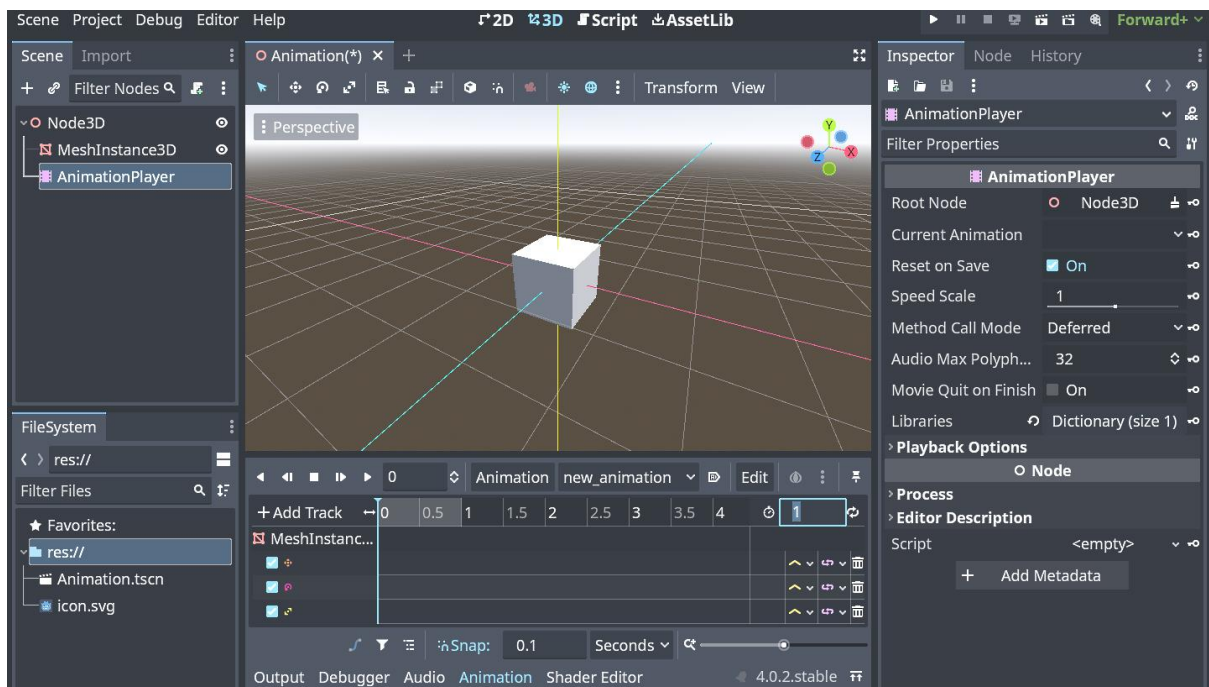
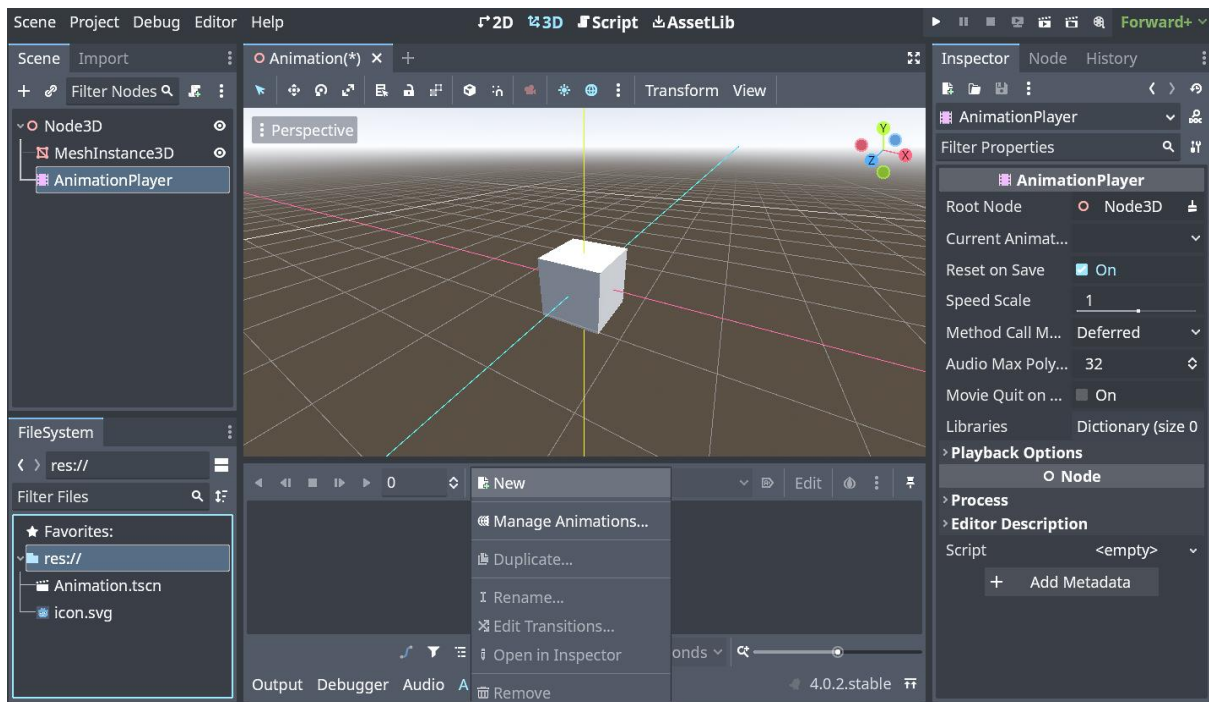


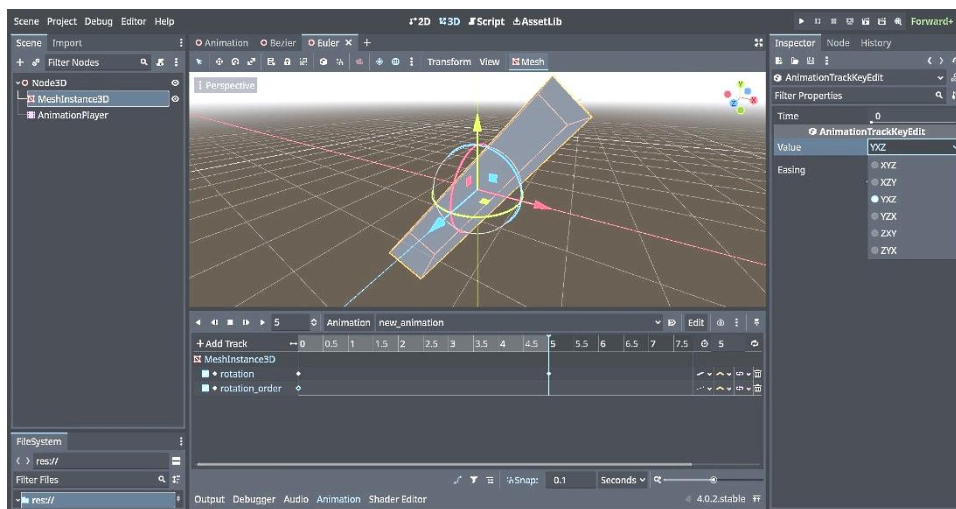
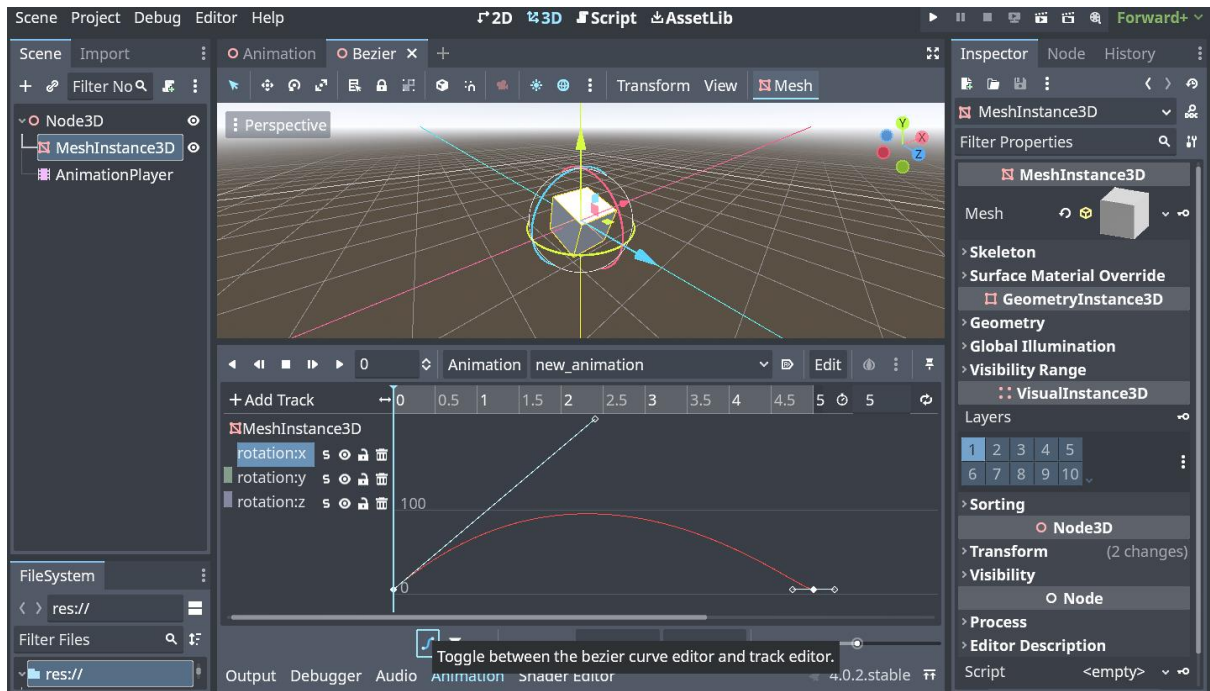


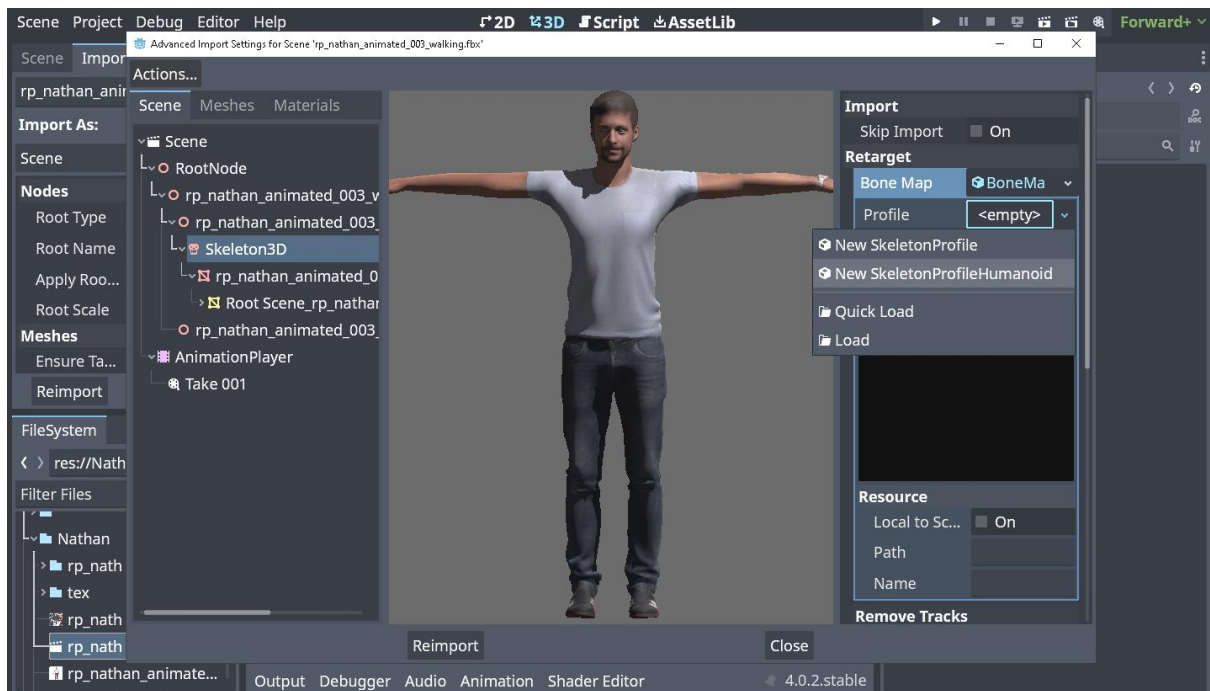
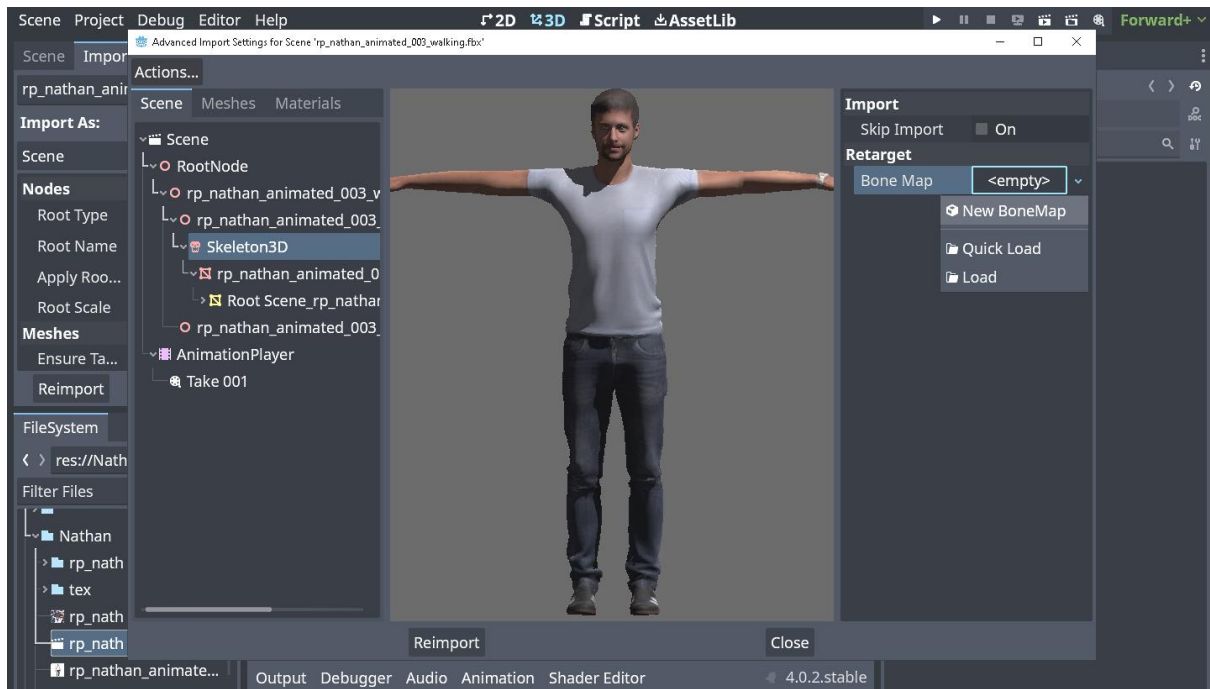


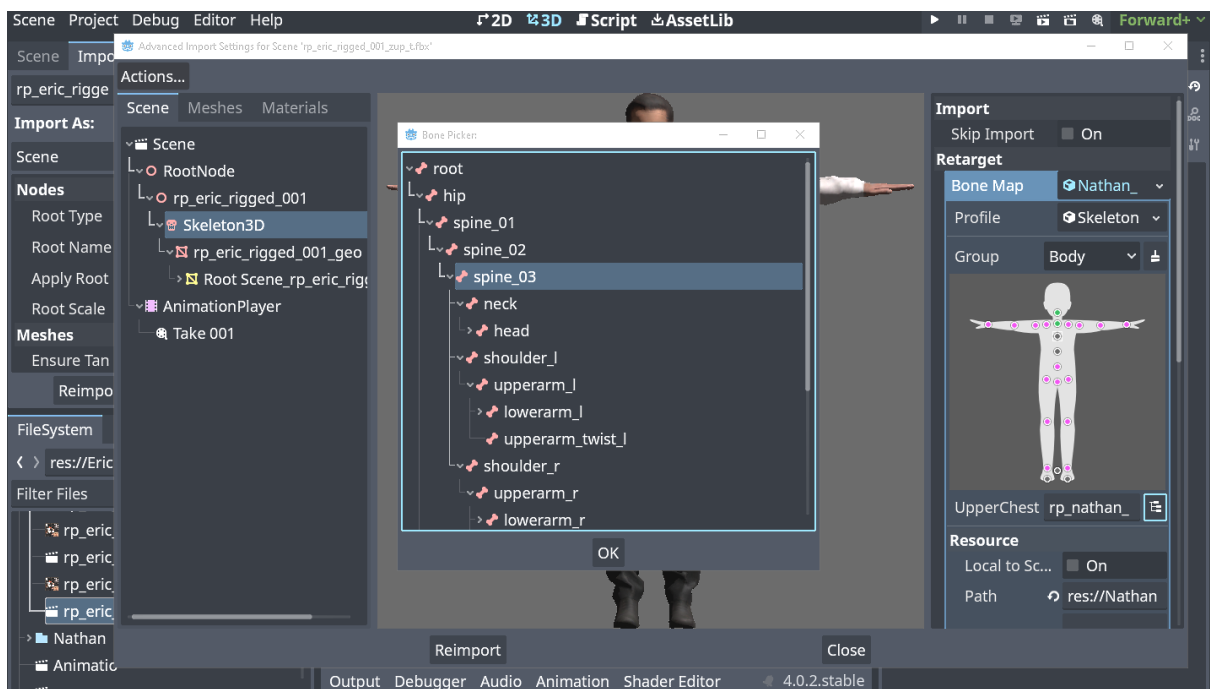
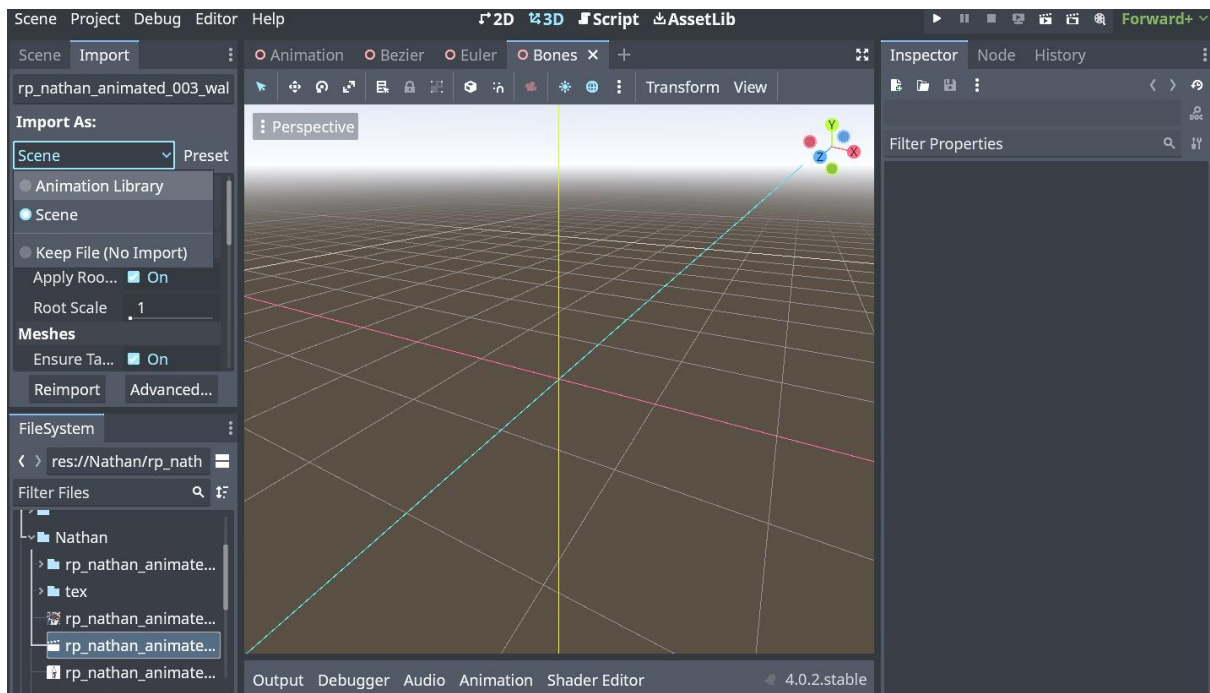


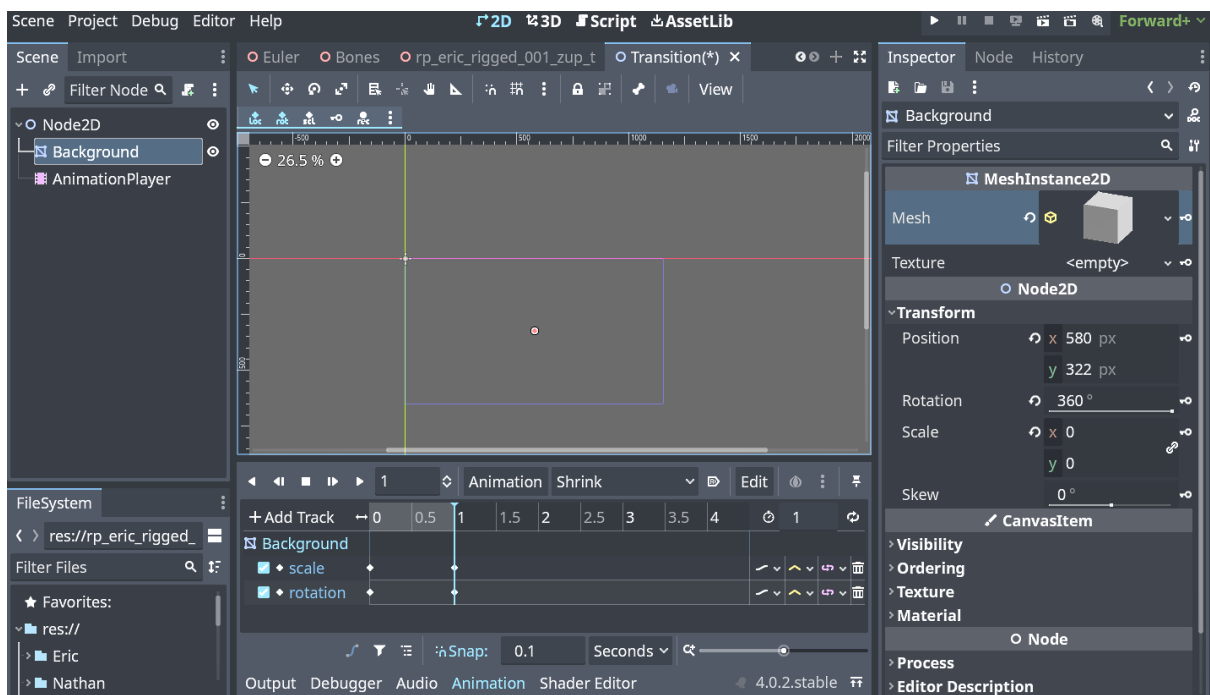
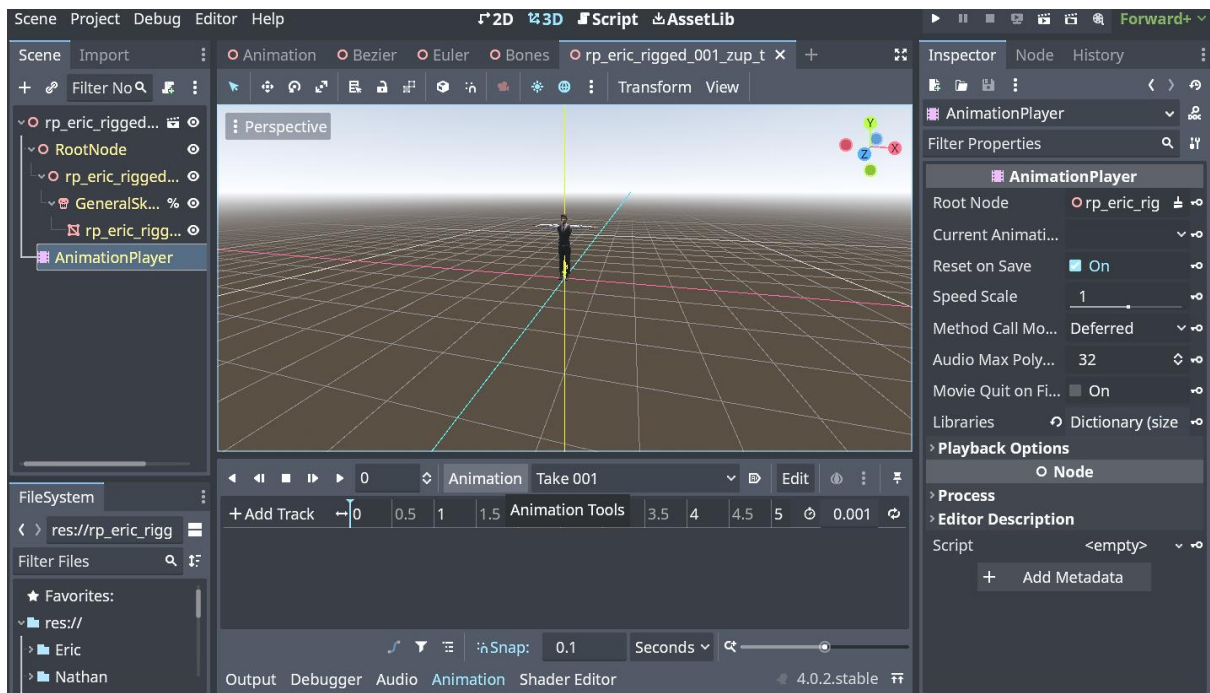
Chapter 09: Achieving Better Animations Using the New Animation Editor

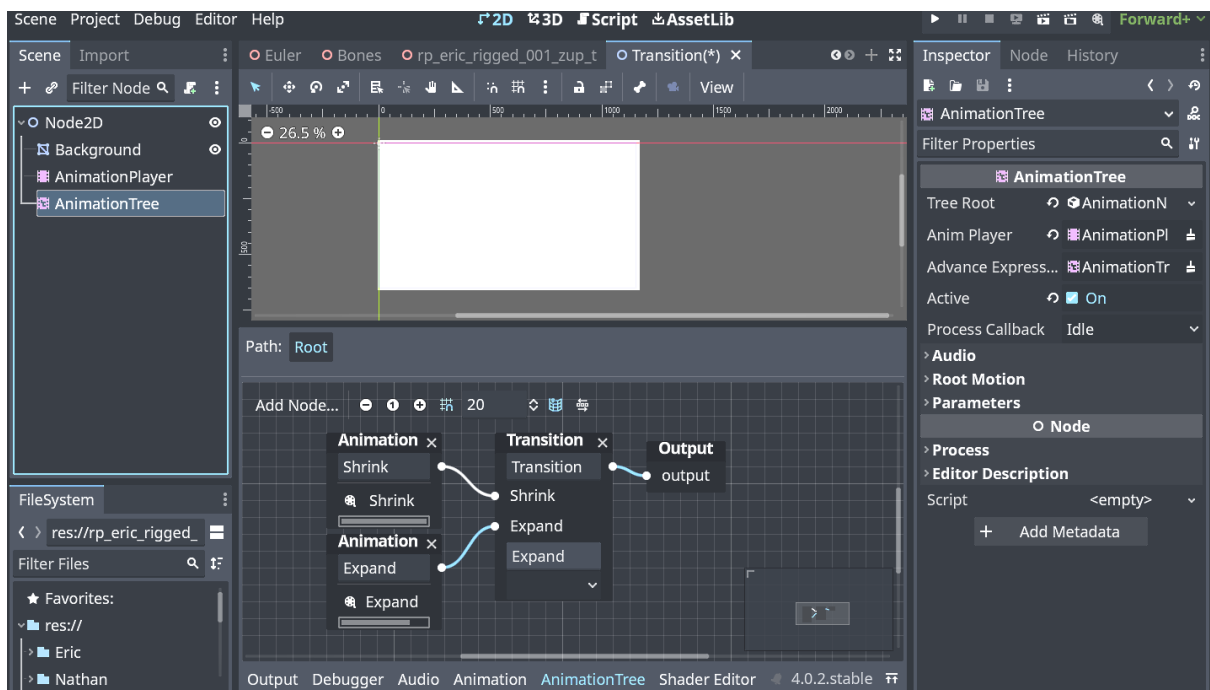
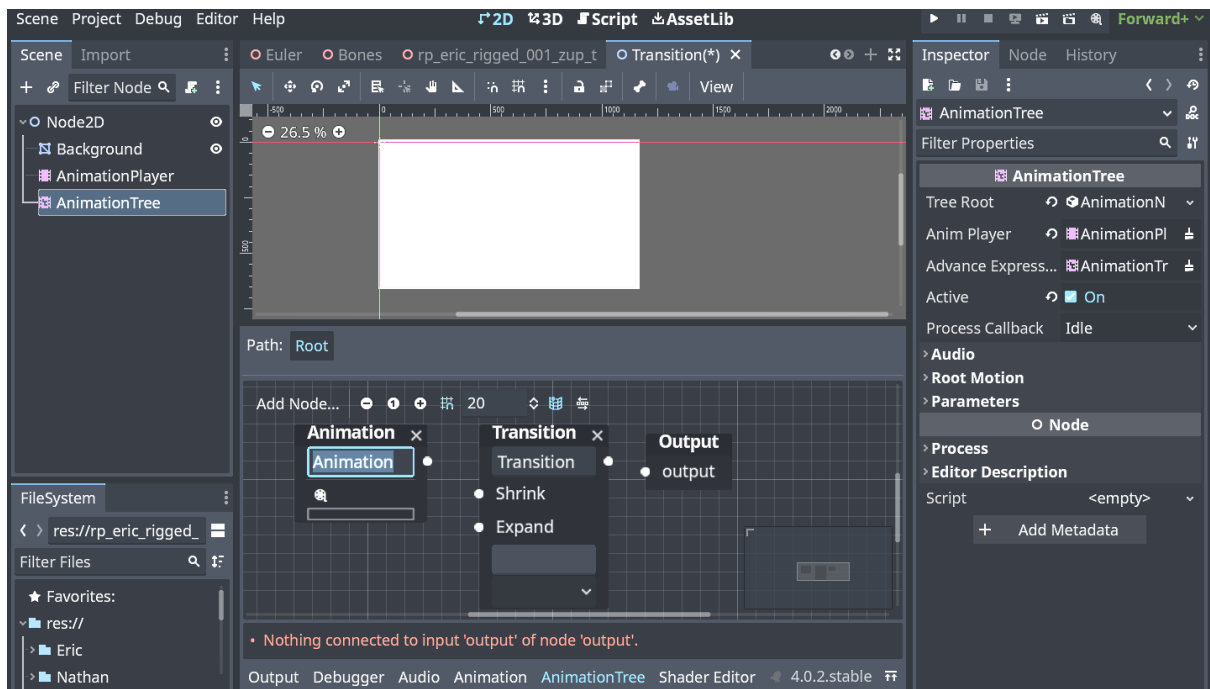


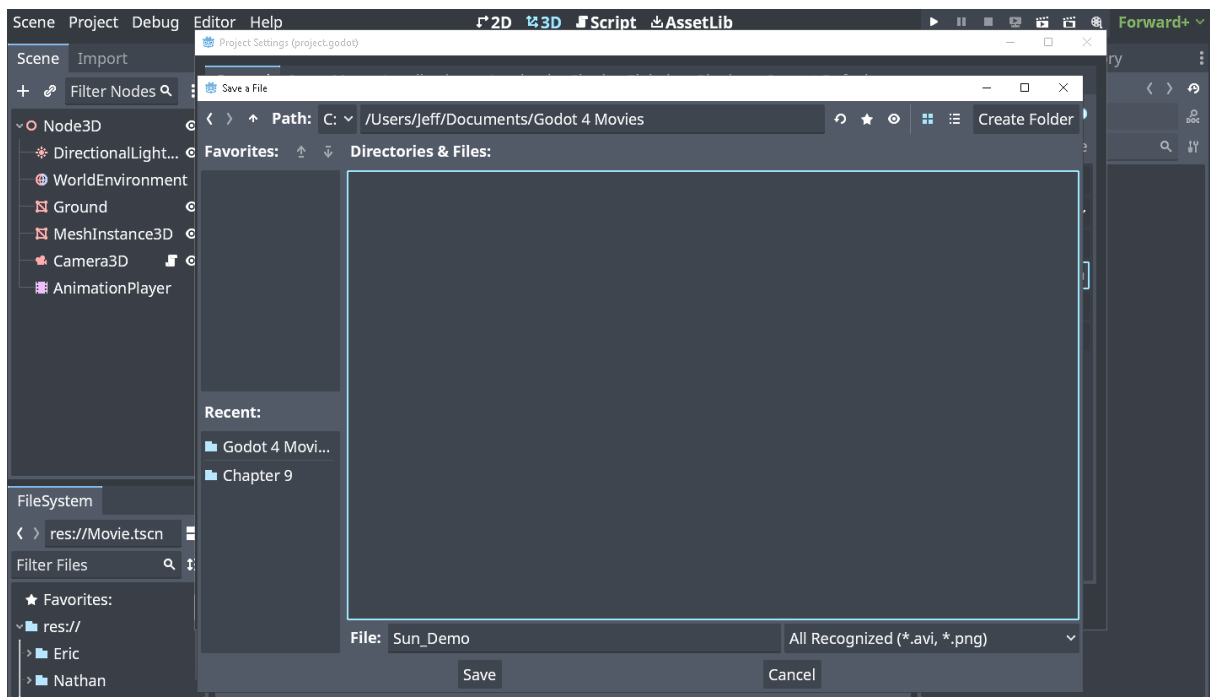
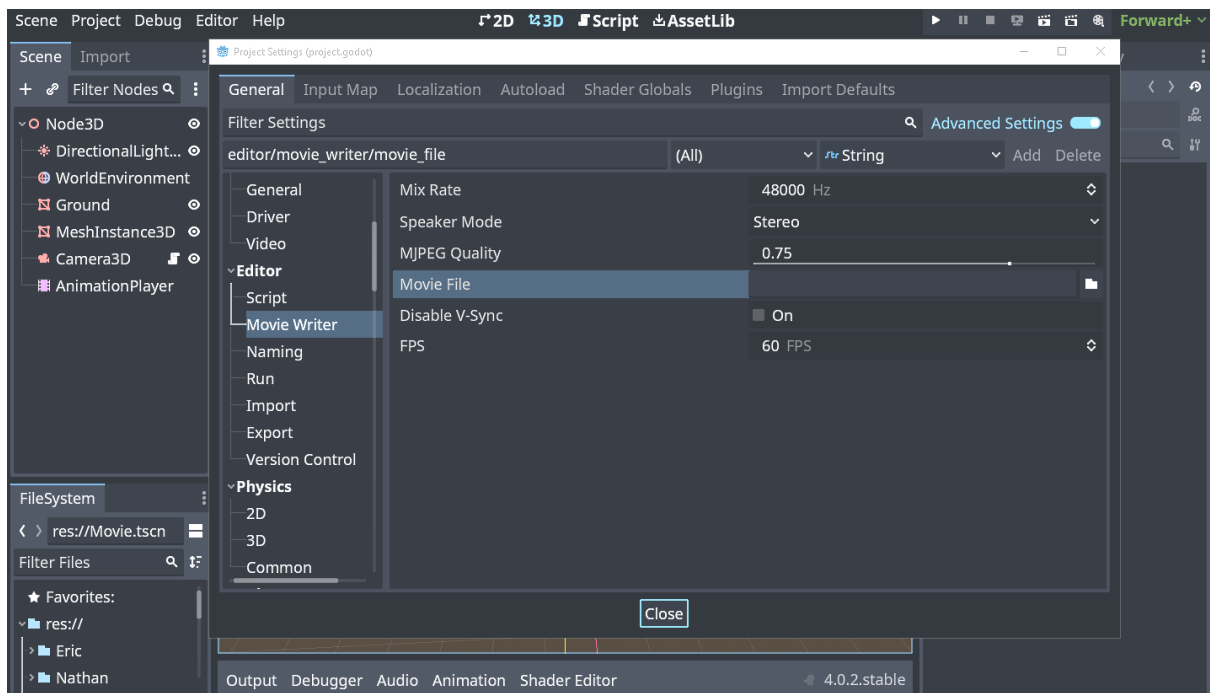


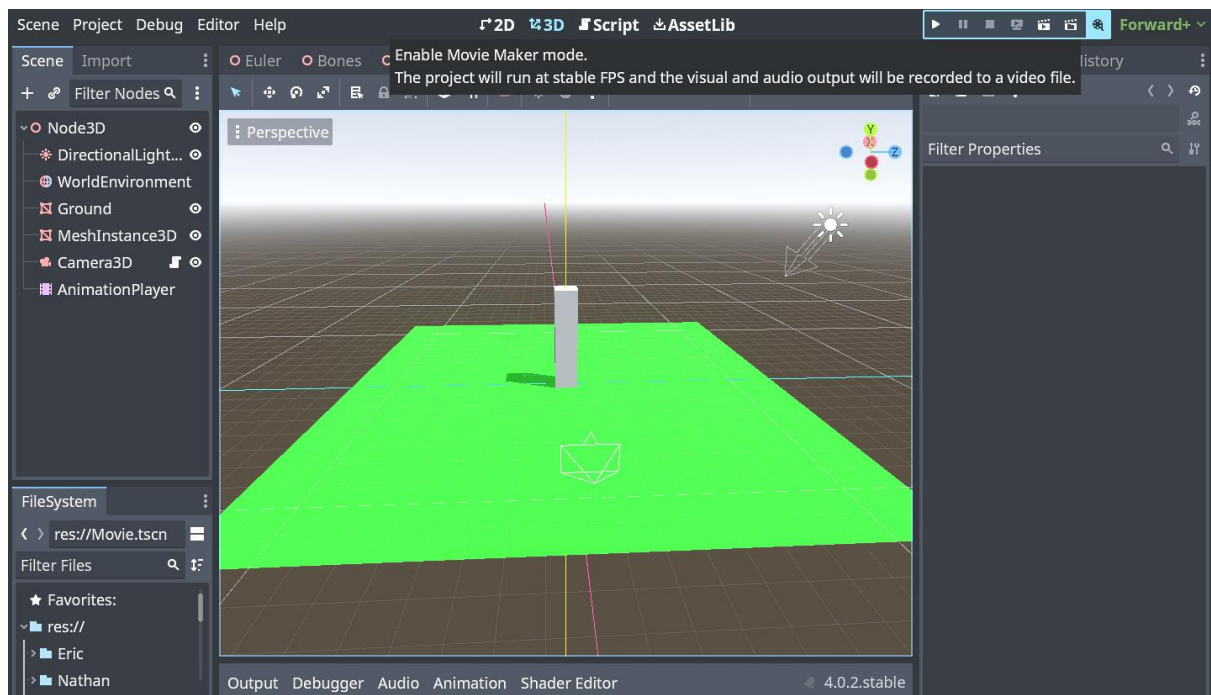




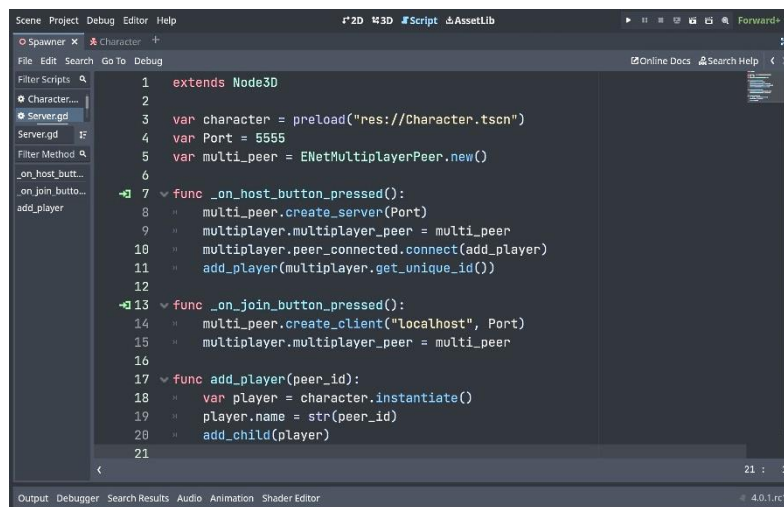
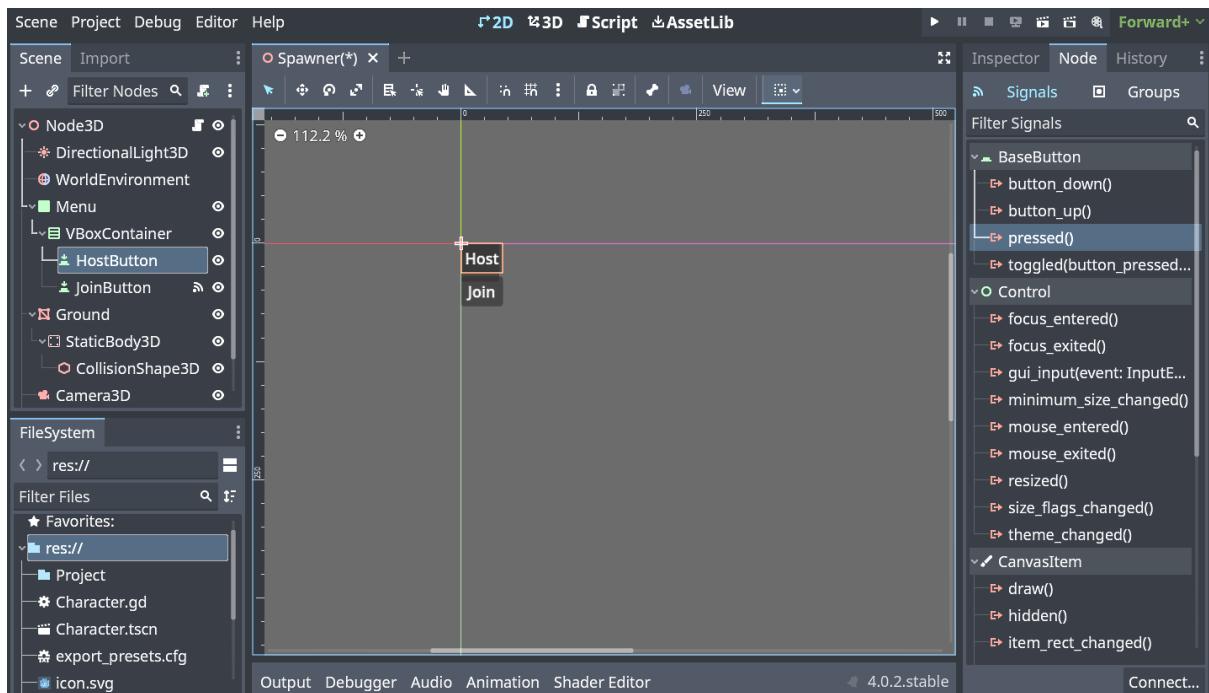


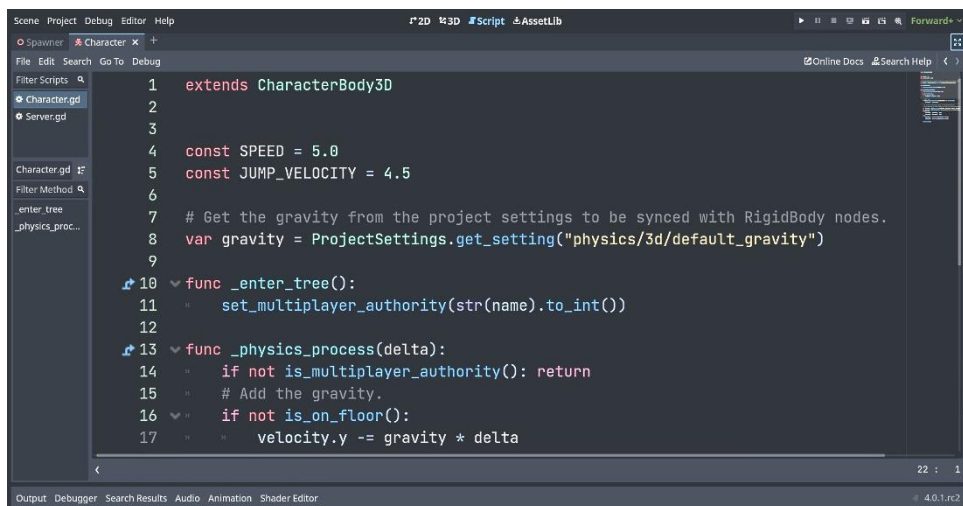
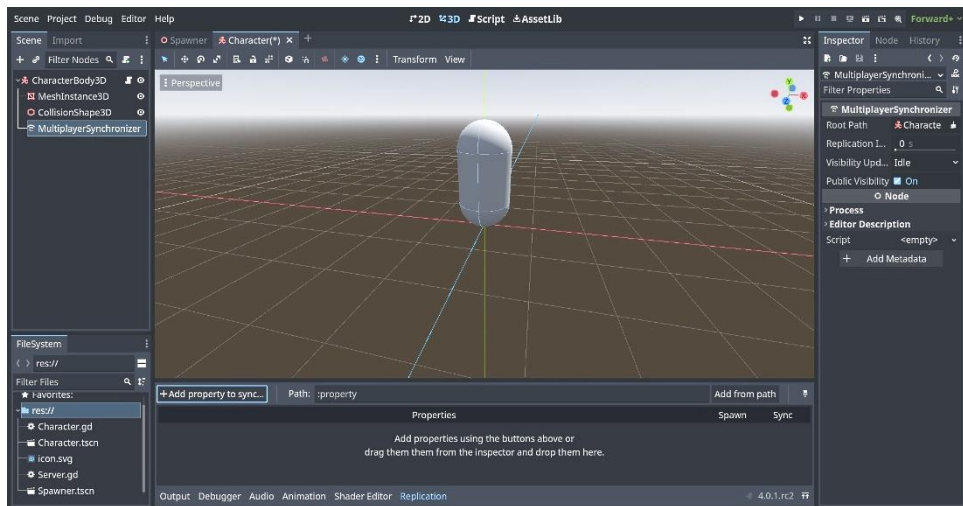
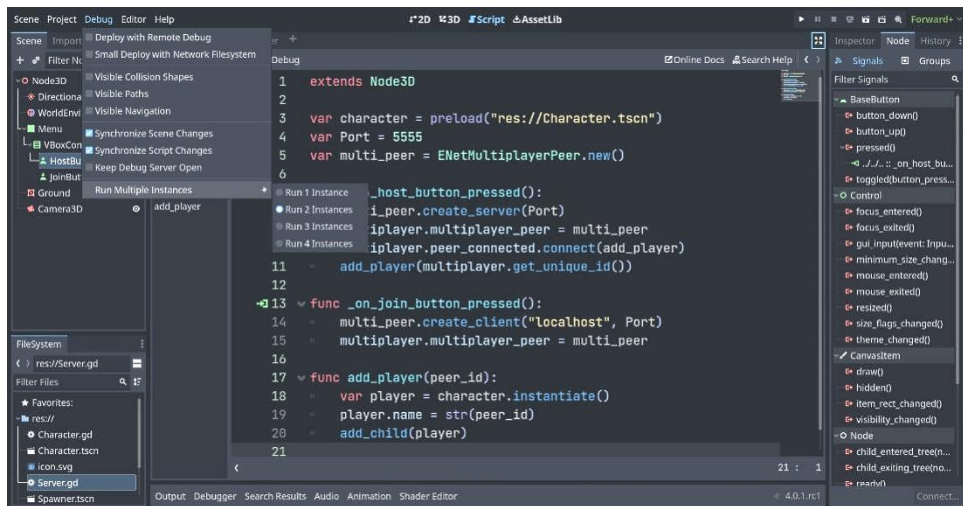


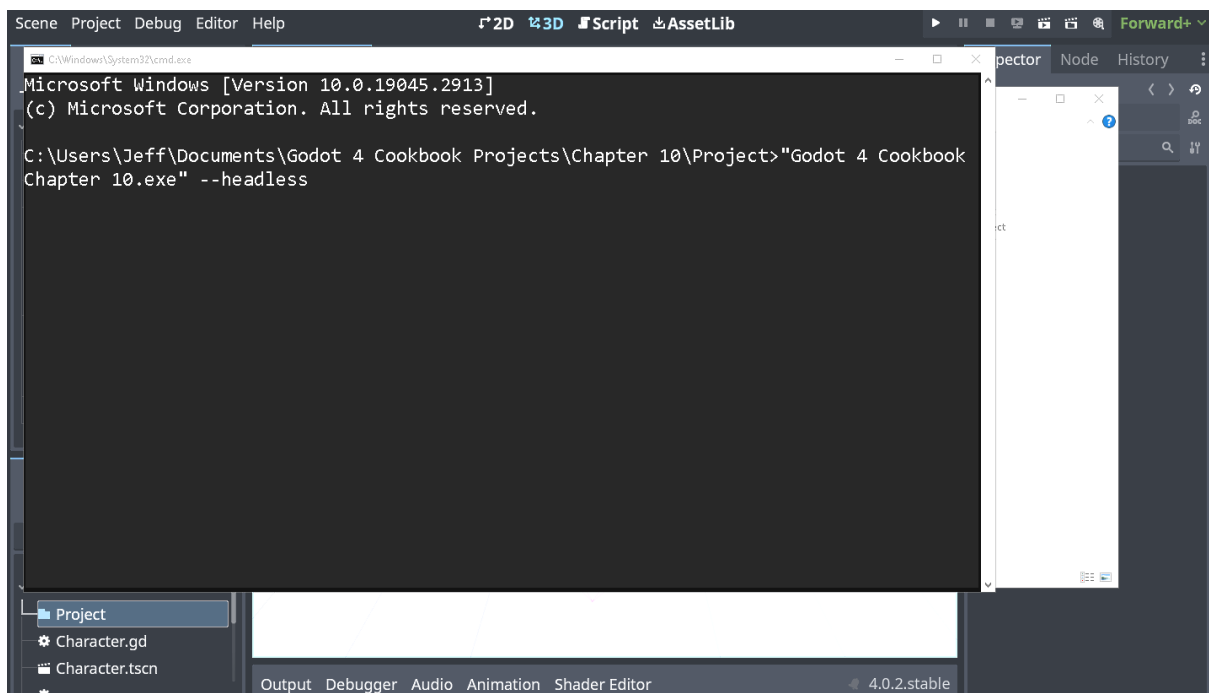
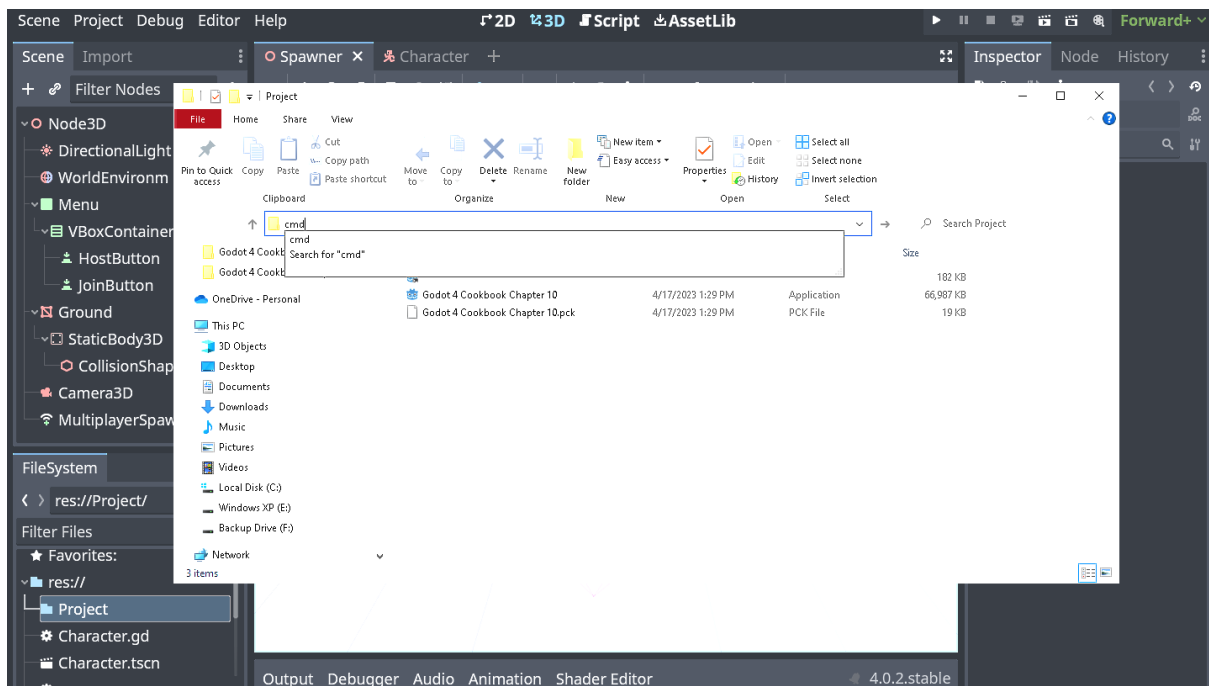




Chapter 10: Exploring New Multiplayer Features in Godot 4







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Scene Project Debug Editor Help
UPNP x
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1 extends Node2D
2
3 func _ready():
4     var upnp = UPNP.new()
5     var find_result = upnp.discover()
6
7     if find_result == UPNP.UPNP_RESULT_SUCCESS:
8         if upnp.get_gateway() and upnp.get_gateway().is_valid_gateway():
9             var map_result_udp = upnp.add_port_mapping(5555, 0, "game_udp", "UDP", 0)
10            var map_result_tcp = upnp.add_port_mapping(5555, 0, "game_tcp", "TCP", 0)
11
12            if not map_result_udp == UPNP.UPNP_RESULT_SUCCESS:
13                upnp.add_port_mapping(5555, 0, "", "UDP")
14            if not map_result_tcp == UPNP.UPNP_RESULT_SUCCESS:
15                upnp.add_port_mapping(5555, 0, "", "TCP")
16
17            var external_ip = upnp.query_external_address()
18            upnp.delete_port_mapping(5555, "UDP")
19            upnp.delete_port_mapping(5555, "TCP")
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