

Tomb Editor Manual

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Contents

I	Introduction	5
1	History of Tomb Raider Level Editors	7
1.1	Back to 2000: <i>Tomb Raider Level Editor</i>	7
1.2	Paolone's <i>Next Generation Level Editor</i>	8
1.3	MontyTRC89's <i>Tomb Editor</i>	8
2	Basic concepts to know about Tomb Raider	9
II	Getting started	11
3	Installing Tomb Editor	13
4	Starting a new project	15
5	What is a level?	19
5.1	Level map	19
5.2	Playable level	19
5.3	Level script	20
5.4	Crucial attachments	20
5.4.1	Item files	20
5.4.2	Texture files	21
5.4.3	Sound files and their catalog files	22
5.5	Conclusion	23
6	Starting a new level map	25
6.1	Using TombIDE wizard	25

7	Time to run the first (default) room	29
7.1	Open your level in <i>Tomb Editor</i>	29
7.2	Default level properties	29
7.3	Wait! Something is missing...	31
7.4	Ready to play your first room?	32
8	Main contents of the level scripts	33
8.1	What is Lua?	33
8.2	Scripting Studio in TIDE	34
8.3	Visual Studio Code	35
8.3.1	What is VS Code	35
8.3.2	Integration with TIDE	35
III	Principles of game development	37
9	Beta testing	39
9.1	In General	39
9.2	Alpha Testing	40

Part I

Introduction

Chapter 1

History of Tomb Raider Level Editors

1.1 Back to 2000: *Tomb Raider Level Editor*

Tomb Raider marked a sensational new approach to 3rd person gaming. Fans not only fell in love with Lara and her moves, but with the imaginative and intriguing worlds of her adventures. It all started with Lara's visit to some Egyptian ruins back in 1996, and now with the release of the Tomb Raider Level Editor has come full circle, offering a different sort of adventure in another Egyptian setting. *Tomb Raider Chronicles* marks the end of the line of Tomb Raider games made with these development tools; but rather than viewing this as an end, the release of the editor makes it seem more like a beginning...

The **Tomb Raider Level Editor (TRLE)** includes a tutorial that will walk you through the basics needed to create your own stand alone Tomb Raider levels (but please read the legal disclaimer about commercial use of this product). Even though you will not be able to edit objects or animations (that means Lara's outfits), you have a wonderful variety of object sets from which to choose. You can sculpt and design on many different 'levels' – trigger events, create awe-inspiring spaces, simple to complex... and as you experiment you will learn more about what can be done, and quite possibly discover new methods of applying the knowledge you have acquired.

We sincerely hope you will enjoy inventing, designing, and building with

and for Lara as much as we have over the past 4 years. We thank all those who have held the enthusiasm for the Tomb Raider series, thereby contributing to its success. We wish you happy adventuring with Lara and the tools used to create her worlds. [2]

1.2 Paolone's *Next Generation Level Editor*

The **Next Generation Level Editor**, often abbreviated **NGLE**, is a modified version of the Tomb Raider Level Editor, created by Paolone, and released in January 2007. [3]

Tomb Raider Next Generation (TRNG) tools, improve the TRLE tools used to build custom levels with the engine, supplied by Eidos, of Tomb Raider - The Last Revelation.

Many objects have been added, some imported by other TR adventures, like boat or frog-man, other built ex-novo like Detector or Elevator.

There is a new scripter program named NG.Center. This program other than to build your script.dat supplies other little tools. [5]

1.3 MontyTRC89's *Tomb Editor*

Tomb Editor (TE) is a level editor designed for the full range of classic Tomb Raider game series (1-5), as well as for contemporary engine reimplementation projects and game engines designed for community modding and level building. [4]

Chapter 2

Basic concepts to know about Tomb Raider

Part II

Getting started

Chapter 3

Installing Tomb Editor

First of all, you need to download and install the Tomb Editor pack on your computer. It is available eg. [here](#).

The default route of Tomb Editor installed is `C:\Tomb Editor`. The contents of this main folder are:

- Tomb Editor program.
- Side programs dedicated to Tomb Editor: SoundTool, TombIDE, Wad-Tool.
- Most of the files which are necessary to start a basic project and level for Tomb Engine. (But texture files for room faces must be find somewhere else. But this is still not necessary now, when you start reading this tutorial.)
- Other important files for Tomb Editor pack.

So when you have the Tomb Editor pack installed on your computer, then you are just ready to start building levels for Tomb Engine. [\[1\]](#)

Chapter 4

Starting a new project

After the installation of Tomb Editor pack, you are ready to make your very first Tomb Engine project. (Level map file extensions are well-known as “PRJ” files, but do not misunderstand: what we call “project” now is not a level, but a whole level set - i.e. your current Tomb Engine game itself, which will be released when you fully made it.)

But where do you need to place your projects? Well, NOT in Tomb Editor main folder - that is a place you usually never modify while editing. I suggest placing all of your projects nicely collected in a so-called general project folder. This could be called eg. "My_Tomb_Raider_projects", created manually. (I created it in Documents folder.)

Each project you make will be placed in its own main folder. Does it mean now you should also create manually a project main folder in the general folder? No, there is a TombIDE wizard which will do the whole project-creating procedure for you.

Projects are handled in **TombIDE (Tomb Integrated Development Environment or TIDE)** program, that is why the whole project-creating procedure is also being done there. So start **TombIDE.exe**, and the panel of TIDE Start page opens up. Click on “Create a new project” button now. The first page of a new panel opens up (General Information, [4.1](#)):

- Let’s suppose the project you start now has the name of “Lara’s Newest Adventures”. So type it now here.
- Click on “Browse” button, find and select the general project folder.
- After that, the little window in the middle of this first page shows that

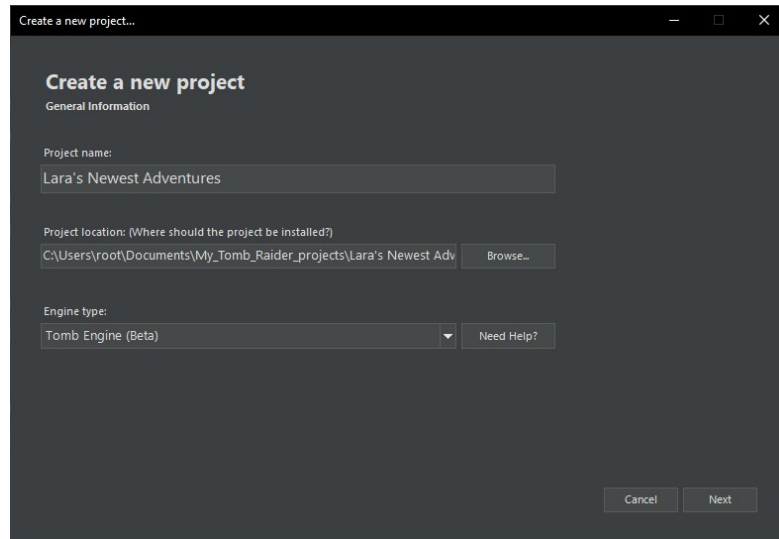


Figure 4.1: General Information

a subfolder in the general project folder will be created as the main folder of this project, having the project name.

- The engine type you choose now is naturally Tomb Engine.

Now click on “Next” button to continue the procedure on the next page of the panel (Extra Options, 4.2).

I suggest changing nothing here. Which means level map files will be handled in a folder called “Levels”, which is a subfolder in the main folder of the project. (I mean, this is the default place for level map files, and you, the beginner probably should keep it like this.)

Now click on “Create” button here, then look at the increasing bar at the bottom of the panel. When the bar is at 100 %, then you get a message that the project has been successfully created (4.3).

And this project main folder has been also created on the selected route, with the basic contents a TEN project should have. (Including Levels folder - still being empty - in that default position., 4.4)

Double-click on that row (or click on “Open selected button” below), so the project opens in TIDE, you will be able to work on it. Each project opened in TIDE has more pages, now you can see its Level Manager page. (See the panel header which names the current project.)

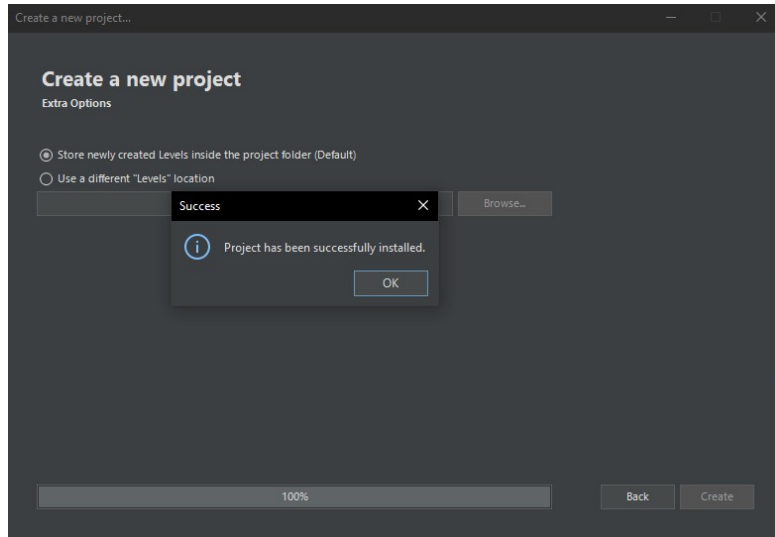


Figure 4.2: Extra Options

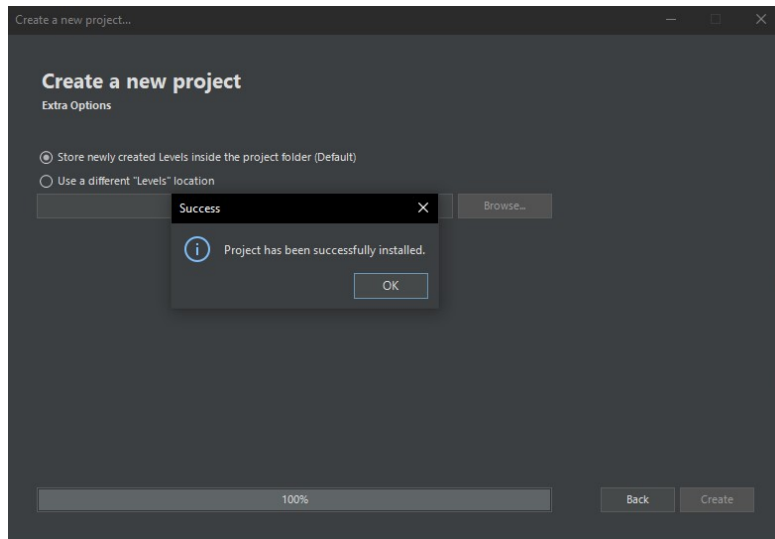


Figure 4.3: Project has been successfully installed

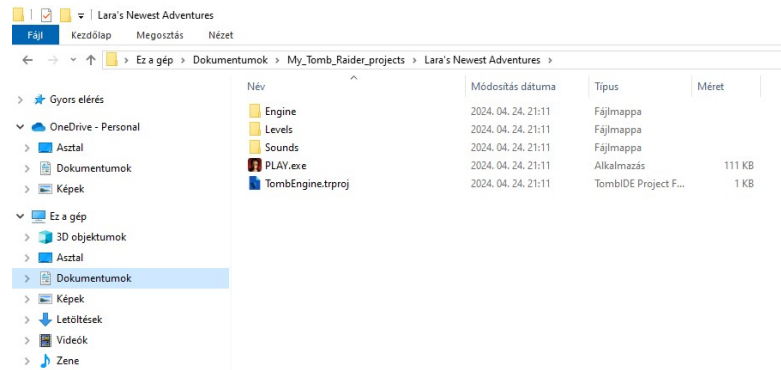


Figure 4.4: Project directories have been created (Since TEN 1.7., the project main folder has an Assets subfolder as well.)

Now click on the blue TIDE icon in the upper left corner of the page, then a menu opens. One of the menu options is an arrow, with "Back to Start Window..." name. Click on it to close this project now, going back to TIDE Start page. [1]

Chapter 5

What is a level?

Before we discuss how to start a new level, important to understand, that actually what a "level" is. (*Don't do anything now, just read and listen.*)

5.1 Level map

Level maps are the editable versions of levels. So when you create, modify a level in the level editor program, then the changes are saved and stored in level map files. TE has its own level map formula, whose extension is called PRJ2.¹

At the moment you don't have PRJ2 files, but soon you will create them and save them in Levels folder of the project main folder. (In fact, in subfolders of Levels folder, and each subfolder is dedicated only to one level of the project, having a name which nicely refers to the level name.)

5.2 Playable level

The playable version of the level is a level file what the game will play as a level. This playable file is made by a conversion, converted from the PRJ2 level map file of this level. (The conversion will be a very simple task to you: only a simple click on a button.)

¹Previously level map files was known as files with PRJ extension.

5.3 Level script

Script means game or level data, described simply by typing some texts. There is a tool in TE pack dedicated to edit script. This is TIDE you have already used to create your project, and you definitely will use it later much to edit your script. ²

5.4 Crucial attachments

Literally or "only" technically, but levels are useless without their crucial attachments. (Which you will attach in TE to the level map. Then you need to save the map to keep it.)

- Item files
- Texture files
- Sound files and their catalog

5.4.1 Item files

An item file (attached to a level) contains all the Moveable and Static objects (Lara, creatures, statues, furniture, effect emitters etc.) and sprites ³ which can be used in that level. In TE you can select more than one item file for a level. (And if an object is there in both, then you can set which one of them should be applied in the level.) ⁴

- Builders using TRLE/NGLE previously definitely know that the extension of an item file is **WAD**, acronym standing for *Where's All the Data?* ⁵, made/edited probably with WadMerger program. But it is

²In TRLE or NGLE there is a "level block" in the script, where all the scripted data of that level are typed. In TE it works the same way - except if the engine for your TE project is TEN. In that case script works a bit differently, as you will see. (Though, a level block also exists there.)

³In computer graphics, a **sprite** is a two-dimensional bitmap that is integrated into a larger scene, most often in a 2D video game. [8]

⁴Unlike the older editors, where only one item file could be selected per level.

⁵WAD is generally a main architectural component of retro games - see e.g. https://en.wikipedia.org/wiki/Doom_modding for usage in *Doom* custom games.

not obvious any more, if your level editor program is Tomb Editor. In TE WAD extension is usually supported, but not preferred.

- WAD2 extension means an enhanced item file (eg. with the feature of UV-mapping ⁶ which is not possible in WAD files). WAD2 files are made and useable only for TE levels, it is the preferred extension here. There is a tool in TE pack dedicated to edit item files, called WadTool. Just open a WAD in it, and save it. It will be saved automatically as a WAD2 item file. (Or you can naturally arrange even a brand new WAD2 in WadTool.)
- TEN engine is able to use only specific WAD2 files, which means WAD extension is not supported for TEN engine. (Except if WAD has only objects having non-TEN specific behaviors, like Statics.) You can find a menu option in WadTool, to convert your other item files into a TEN WAD2.
 "Specific" means eg. TEN Lara object is optimized for TEN, so a "casual" (non-TEN) Lara would not be animated properly there. (Later we discuss it in this tutorial - but not the details, because it is not a TEN WAD2 tutorial.)

WAD2 files for a TEN level should be placed in Levels folder, in the subfolder of that level. (It is recommended to use a sub-subfolder there for it.) - Though, technically it is not a must, they can be placed even anywhere in your computer.

5.4.2 Texture files

A texture ⁷ file (attached to a level) contains all the texture tiles which can be placed on room faces (floor sector, ceiling sector, wall section) in that level.

In TE:

⁶**UV mapping** is the 3D modeling process of projecting a 3D model's surface to a 2D image for texture mapping. The letters "U" and "V" denote the axes of the 2D texture because "X", "Y", and "Z" are already used to denote the axes of the 3D object in model space. [10]

⁷A *texture map* refers to a 2D image ("texture") that adds visual detail to a 3D model. The image can be stored as a raster graphic. A texture that stores a specific property—such as bumpiness, reflectivity, or transparency—is also referred to as a *color map* or *roughness map*. [9]

- you can select more than one texture file for a level, placing tiles even from each in your level,
- not only TGA extension is supported for texture files, but even other ones: BMP, JPG, PNG etc.

Texture files for a TEN level should be placed in Levels folder, in the subfolder of that level. (It is recommended to use a sub-subfolder there for it.) - Though, technically it is not a must, they can be placed even anywhere in your computer.

5.4.3 Sound files and their catalog files

Sounds saved in sound files can be emitted mostly by Moveable objects (mostly Lara or other creatures), but even by any effect (like a rumbling earthquake). Etc.

Sound files have WAV extensions - just like in the old times.

Sound files are not directly attached to a level map, for two reasons:

- Sound files for a TEN level should be placed in Sounds subfolder of project main folder. (Though, technically it is not a must, they can be placed even anywhere in your computer.) Initially you can find all the original sounds here of the legacy engines, in their own subfolders. - But naturally you are allowed to edit these contents, modifying, deleting, adding sound files here.

These places are needed to be attached to that level.

- There must be one catalog file (or, unlike the older editors, even more catalog files), attached to the level, where the sounds you want to attach are named. The main reason is that sounds can have different properties for different levels, and the catalog will describe the properties that this sound will have on this level

Sound catalogs can be even older types, familiar from TRLE/NGLE (Sounds.txt or SFX/SAM files of WAD files), or the ones having XML extensions, which are made for TE. Later you will be able to make custom XML files, but some of them are created when saving a WAD2 file. And there are even some preset XML catalogs in Catalogs/TEN Sound Catalogs subfolder of Tomb Editor main folder.

There is a tool in TE pack dedicated to edit sound catalogs, called

SoundTool. If you want, just open a non-XML catalog into it, and save it as an XML one.

5.5 Conclusion

When you start building a new level for your project, then these are your tasks, recommended in this order:

1. Create a PRJ2 level map file.
2. Add this level to the project.
3. Check the needful contents of the level script. If your script has less contents than that, then the level is useless in the game.
4. Check the main settings (in TE) for the level. If they are wrong, then the level is useless in the game.
5. Check the crucial attachments.
6. You can try to edit something in the level map - then save it.
7. Convert the PRJ2 level map into a TEN playable level.
8. Start the level in the game, try what you have just edited in the map.

[1]

Chapter 6

Starting a new level map

6.1 Using TombIDE wizard

1. Open the "Lara Newest Adventures" project in TIDE, remaining on Level Manager page.
2. See the left big window here, with the title of "Level list". As the text says in it, click on it, or - because the text is not available when there is at least one level in this window - click on the "+" button on the upper left corner of the window.
3. The panel of "Create a New Level" opens ([6.1](#)):
 - **Level Name:** this level name will be shown in the game for this level. Let's say it is "Test Level 1" now.
 - **Use custom PRJ2 / DATA name:** if you tick it, then you can add an alternative name key instead of the default one. Name keys are the names of the most important files of this level. The default name key is mostly the Level Name, except: there cannot be spaces. So eg. for Test Level 1, level files will be auto-created with this name key later: Test_Level.1.prj2, Test_Level.1.ten etc.
Let's suppose we don't want the default name key now, so tick the option and type "Test1" as the name key. (So the file names will be Test1.prj2, Test1.ten etc.)

- **Generate Lua script:** as I said above, there is a scripted part even for TEN. If you untick it, then the wizard will skip this part, not creating the needful contents of the level script. So later you have to create it manually (but before starting the level at the very first time in the game).

Some values in the scripted part you need to define now:

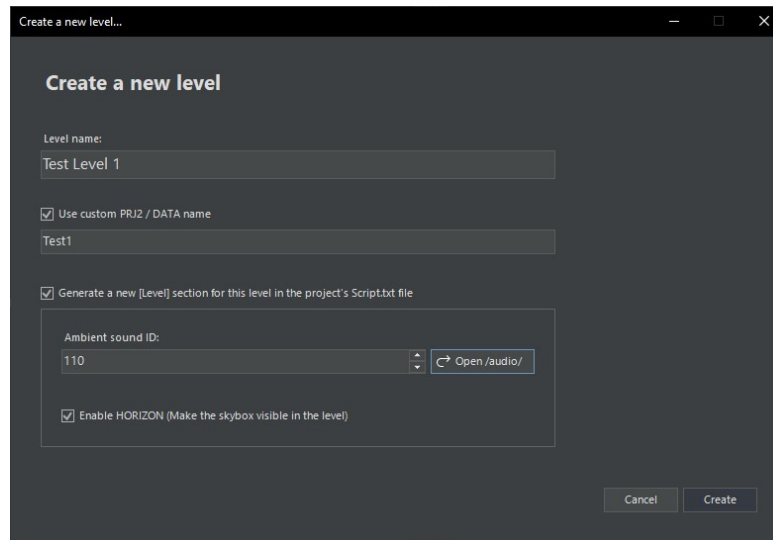
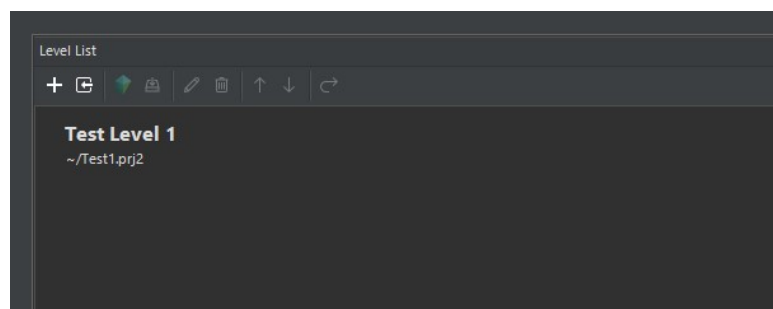
- **Ambient sound ID:** the initial ambient background noise of the level. I suggest accepting this 110.wav now, because later you can change it any time. Or you can click on Open /audio/ button to open Engine \Audio subfolder in the project main folder now, to try to find another one. ¹
- **Enable HORIZON (Make the skybox visible in the level):** the sky above you can be visible in the outdoor areas of the level only if it is ticked. I suggest ticking it, because later you can change it any time. footnoteSkybox and horizon are working together, but they are not the same. But it doesn't matter now.

4. Click on Create button.

What happened now are:

- As I said, each level should have a folder dedicated to it, in Levels folder of this project. Now a dedicated folder to Test Level 1 automatically has been created there, having this level name.
- A Test1.prj2 file has been also automatically created, in Test Level 1 folder.
- The main settings of this level have also been done properly.
- Some crucial attachments of the level has been automatically attached. (Later we discuss it in the tutorial.)
- In Level list window of this project (on Level Manager TIDE page), a row for this level has been also automatically created (6.2).

¹Audio subfolder has the original audio file set of The Last Revelation game. Later you can change the contents any time. Now I suggest choosing a WAV above 100 value here, because in that set, background noises are placed on those IDs. However, for TEN you can use any ID for a background noise - but we won't discuss it in this tutorial.

Figure 6.1: *Create a New Level* panelFigure 6.2: *Level list* panel showing level you've created

- The needful contents of the level script has been also automatically created. (Later we discuss it in the tutorial.)

Now you can click on the arrow menu option in the menu of the blue TIDE icon to go back to the Start page of TIDE.

Chapter 7

Time to run the first (default) room

7.1 Open your level in *Tomb Editor*

Once you're in the TombIDE start page, double click on your project *Lara's Newest Adventure* to open it (or alternatively, select the project and click on the "Open selected project" button), then:

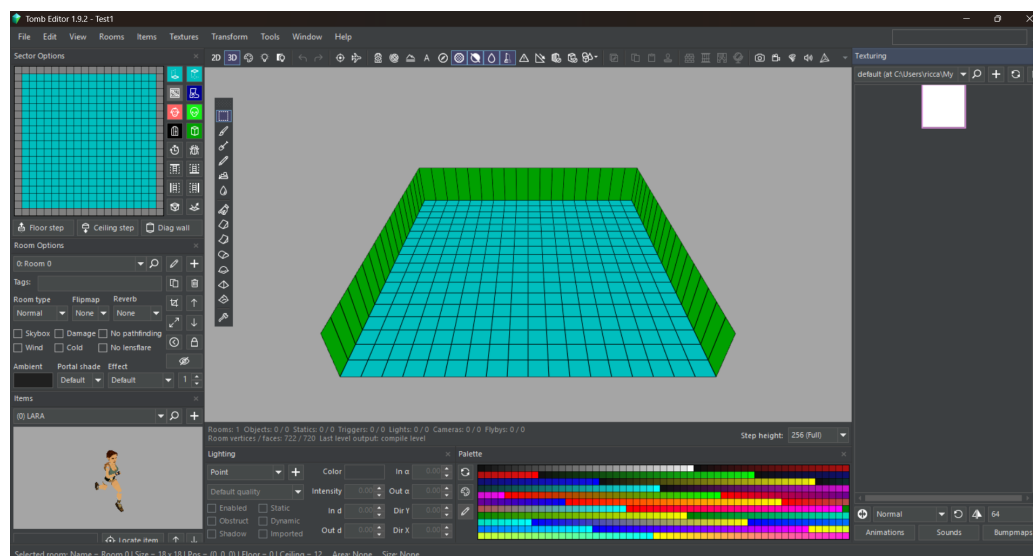
- double click on your "Test Level 1"
- or alternatively, select "Test Level 1", then click on the icon in the upper part of the Level, similar to a green prism. This is the icon of the *Tomb Editor*.

This action will open the Tomb Editor ([7.1](#)).

7.2 Default level properties

When you create a new level, by default the TombIDE tool creates for you a very basic level, containing one squared room, having size 18x18x3. We'll discuss about size later on in details, talking about blocks, rooms and their properties.

For now, just look in front of you: you can see the square room represented in a tridimensional view. You can check this is the 3D view of a rectangular

Figure 7.1: *Tomb Editor* main screen

cuboid, by left-clicking on the room and moving the mouse while keeping the left button of the mouse pressed.

Please note, this room created by default:

- **is already textured in white** - in other words, basically is fully painted in white color (floor, walls and ceiling).
- is dark, since no lights are defined by default. Don't worry about that, we'll plenty discuss about lights later on.

Now you're not able to see here this room is white and dark: please, trust me for now.

Hey! Do you remember we talked about the *crucial attachments*? Well, when you create a new level, TombIDE automatically adds:

- a default *item file*, or WAD, that is a revisited version of objects from TR4
- a default *texture file*, containing a single white texture the whole room is automatically "painted" with, as above mentioned
- default *sound files and their catalog*, from TR4 as well

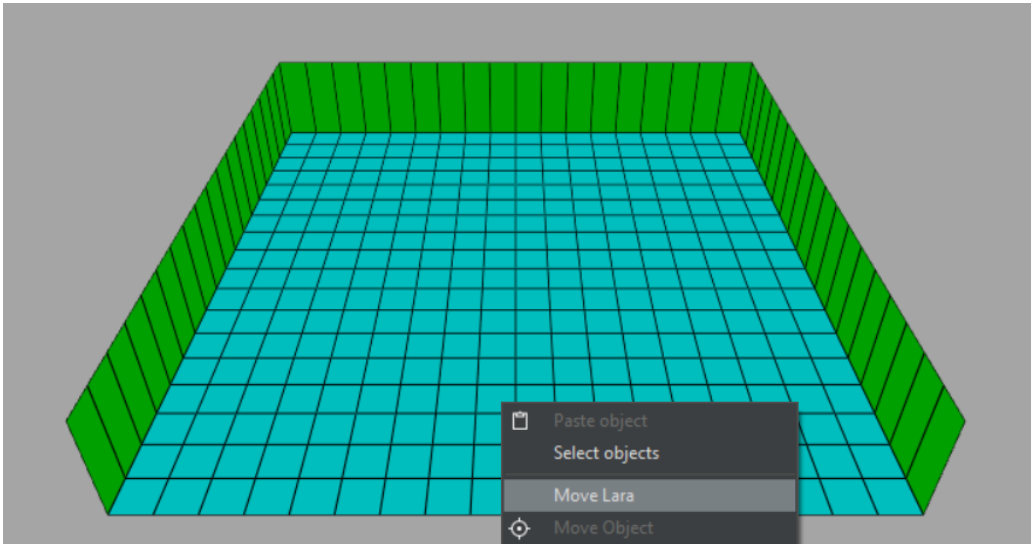


Figure 7.2: Placing Lara

For now, don't worry about where you can check and change the attachments in Tomb Editor: we'll discuss the through entire chapters dedicated to each of them later on.

7.3 Wait! Something is missing...

There's only one step before we can play the level. Guess what is missing? Our Lara.

This is a general rule:

Remark. *A level can be played only if Lara's object is placed into the level.*

To place Lara in the room, it's enough to (7.2):

- left click on a floor box inside the room
- click on "Move Lara"

Now you can see Lara is placed in the room.

7.4 Ready to play your first room?

All done! Now we can build the level and play it by alternatively:

- press F5 on the keyboard
- or click on the "Build level and play (F5)" button in the top menu.

Now the Tomb Engine will build the level for you and run it.

Well, I know: it's a unique, squared room all painted in white and you'll need to close the game manually cause we've not set anything but Lara's position, neither the end of the level. But, **congratulations!** You've build and run your first level successfully.

Chapter 8

Main contents of the level scripts

All the script files for a TEN project are available in `Engine \ Scripts` subfolder of the project main folder. Some of them are not important for us now, and some of them won't be important even later. - So let's see which script files are important, when you start building a new level:

- `Gameflow.lua`
- `Strings.lua`
- `.lua` file with the key level name (in `Levels` subfolder of the `Scripts` folder), i.e. `Test1.lua` now.

You can open and edit these script using whatever text editor you'd like. However, there are two integrated ways to open scripts in TombIDE:

- Scripting Studio in TombIDE
- Visual Studio Code

But, first of all: why these files have `.lua` extension?

8.1 What is Lua?

Lua is a lightweight and high-level programming language designed mainly for embedded use in applications. Lua is cross-platform software.

In video game development, Lua is widely used as a scripting language, mainly due to its perceived ease of embedding, fast execution, and short learning curve. Notable games which use Lua include *Roblox*, *Garry's Mod*, *World of Warcraft*, *Payday 2*, *Phantasy Star Online 2*, *Dota 2*, *Crysis* and many others. Some games that do not natively support Lua programming or scripting have this function added by mod.

In 2003, a poll conducted by GameDev.net showed that Lua was the most popular scripting language for game programming. [7]

Scripts written in Lua language have `.lua` file extension.

8.2 Scripting Studio in TIDE

Once opened the project in TombIDE, you can open the integrated Scripting Studio clicking on the icon *Scripting Studio* on the left. Naturally this is the page where you can edit your script.

The main parts of this page are (8.1):

- Dropdown menu.
- Toolbar with buttons.
- The big window to see/edit the script: any text you can see here is some textual data for your game/level. Or, if a row starts with a `--` sign, that means the row is just a comment, a note, so you can type anything here.
- File Explorer panel on the right side: Here you can find all the available script files of the project. Click on any file name of File Explorer, to open that file in the big window. There are tabs above the window, for the script files are just open there. `Gameflow.lua` are always open initially. (Naturally you can close any tab if you just doesn't care about it any more.) Click on any of those tabs to see its contents in the window.

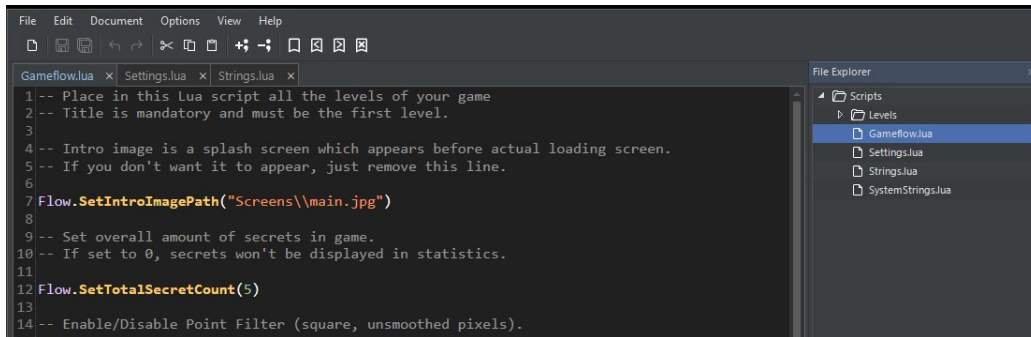


Figure 8.1: TombIDE Scripting Studio

8.3 Visual Studio Code

8.3.1 What is VS Code

Visual Studio Code (VS Code) is an integrated development environment developed by Microsoft for Windows, Linux, macOS and web browsers. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded version control with Git. Users can change the theme, keyboard shortcuts and preferences, as well as install extensions that add functionality.

Visual Studio Code is proprietary software released under the "Microsoft Software License", but based on the MIT licensed program named "Visual Studio Code - Open Source" (also known as "Code - OSS"), also created by Microsoft and available through GitHub.

In the 2024 Stack Overflow Developer Survey, out of 58,121 responses, 73.6% of respondents reported using Visual Studio Code, more than twice the percentage of respondents who reported using its nearest alternative, Visual Studio. [\[11\]](#)

8.3.2 Integration with TIDE

Once installed VS Code on your PC, you can click on the *Open Project in Visual Studio Code...* button on the left side of TombIDE. This action opens VS Code automatically placed on the `Engine \ Scripts` folder and opens the `Gameflow.lua` script.

Furthermore, if not installed already, TIDE will propose you to install

the *Lua language server* extension in VS Code ¹.

¹The *Lua language server* extension provides various language features for Lua to make development easier and faster. With nearly a million installs in Visual Studio Code, it is the most popular extension for Lua language support.

Part III

Principles of game development

Chapter 9

Beta testing

9.1 In General

Beta testing is perhaps the most important phase of any video game's development. Whether you've spent a month or a few years on your adventure, if you don't have it beta tested properly, all that work could be ruined by one simple little gameplay killer. If you understand the importance of beta testing, then read this tutorial carefully and take it to heart. *If you don't understand the importance of beta testing, then read this tutorial carefully and take it to heart.* I cannot stress enough how important the beta testing phase is.

When should beta testing begin? The short answer is after alpha testing is finished. When is alpha testing finished? That's easy! That's when you think your game is ready for release. Your game is the best you can get it and you're sure there is no more you can do and you feel happy about releasing it. Now it's time for beta testing. This seems to be a difficult concept for new Level Builders (and a few seasoned Level Builders) to get their heads around. Trust me, your game does not go for beta testing until you are convinced it's finished. If it's not finished, you're still in the alpha testing stages and if you employ your beta testers now they will be wasting their time and your game will not be beta tested properly.

When a game moves from alpha testing to beta testing, the only changes you should make would be to fix bugs, gameplay errors and textural errors. You should never build new areas or new gameplay or new puzzles during or after beta testing. Again I stress, do not begin beta testing until your

game is FINISHED. Beta testing is purely to iron out problems in finished games. If you ignore this advice the chances are you will release a buggy game. Beta testers take their job seriously and if games are released with bugs it reflects on them and the job they did. If those bugs are down to the Level Builder changing things during or after beta testing and the game is released with bugs you will never get beta testers to help you again. Beta testers will invest days and even weeks of their personal time to help you with your game. Respect that and don't let them down.

9.2 Alpha Testing

Don't cut corners and skip this step. Yes, I know, you're excited about your game and you want to show it off and that's marvellous and wonderful and admirable and quite understandable, but your beta testers are not there to do your job for you. If you upload an appallingly buggy game that hasn't been properly alpha tested, don't be surprised if your beta testers don't do a good job and don't volunteer later when you actually need beta testers. Alpha testing is your job, not your beta testers, and it's extremely important. I consider my alpha testing to be complete when I have a package I think is ready for release. In other words, I can find nothing to change or fix and in my heart I know my game is the best I can make it and I feel it's ready for release. Now I begin beta testing.

During alpha testing, it is easy to move Lara around and forget to put her back, place temporary triggers to open a door and then forget to remove them and a few other little things, so after I've packaged up my game for beta testing guess what? Yes, I then test the beta package from start to finish using only the files I will be uploading for my beta testers. This is my final Alpha test. If this goes well and all the level jumps work properly and I successfully hit a finish trigger, only then is the game uploaded and the download link sent out to the beta testers.

[6]

Index

Next Generation Level Editor, [8](#)
NGLE, [8](#)
Sprite, [20](#)
Texture map, [21](#)
Tomb Raider Level Editor, [7](#)
Tomb Raider Next Generation, [8](#)

TRLE, [7](#)
TRNG, [8](#)
UV mapping, [21](#)
Visual Studio Code, [35](#)
VSCode, [35](#)

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