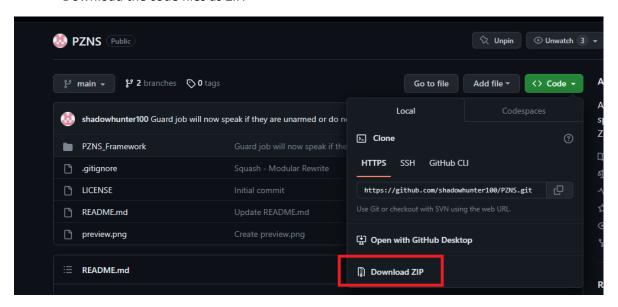
Creating Your Own NPC in Project Zomboid with PZNS

What You Need

- Project Zomboid the game by The Indie Stone
 - Steam Store page: https://steamcommunity.com/app/108600
- PZNS Framework installed in game and activated before your NPC mod.
 - Steam Workshop page
 - https://steamcommunity.com/sharedfiles/filedetails/?id=3001908830
 - GitHub
 - https://github.com/shadowhunter100/PZNS
- A working text editor that has
 - o I highly recommend using Visual Studio Code from Microsoft
 - o https://code.visualstudio.com/download
 - o All example images will be using Visual Studio Code
- Other text editors such as notepad++ or Lime Text will also work just fine, but I will not
 provide instructions using them.

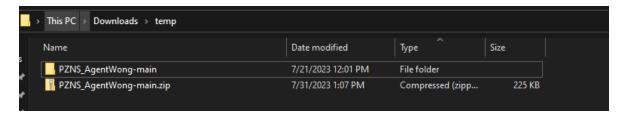
Get the Standalone "Agent Wong" Example as the Template

Visit the GitHub - https://github.com/shadowhunter100/PZNS_AgentWong
 Download the code files as ZIP.



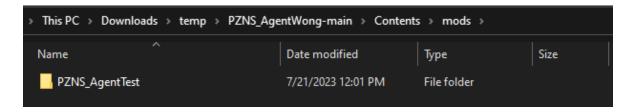
Working Locally with the Code Files

1. In wherever you download the zip file to, unzip/extract it to wherever you intend to work on the mod. In this example, it's in the download/temp folder.

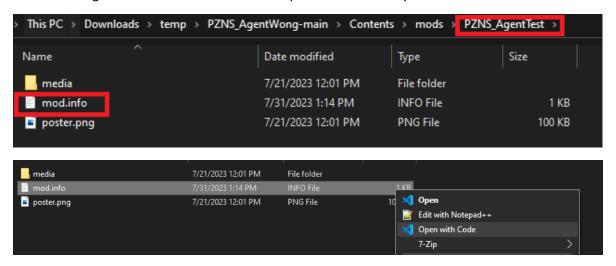


- 2. Click into the folders you are in the folder 'Contents/mods/'
 - a. Rename the 'PZNS_AgentWong' folder into whatever you need, ideally unique and easy to identify.

In this example, the new mod is simply 'PZNS_AgentTest'

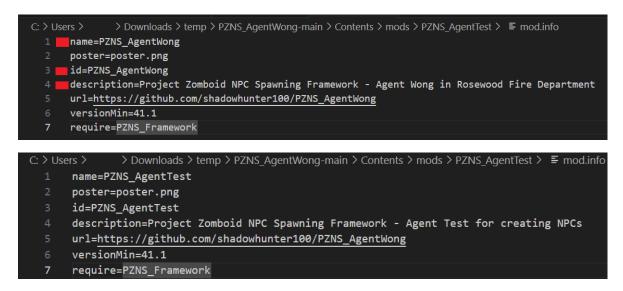


3. Now go into the renamed folder and open mod.info with your text editor of choice.

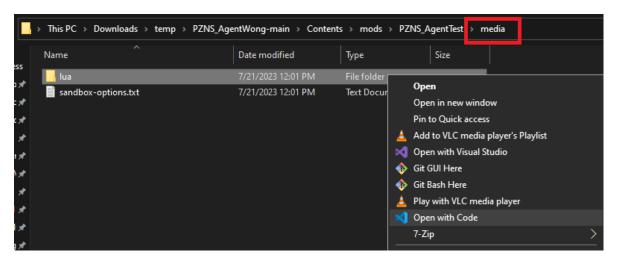


4. Replace the 'name', 'id', and 'description' as needed

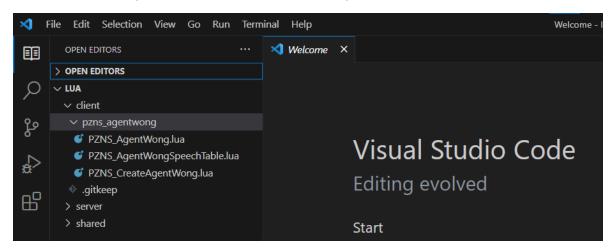
— THIS IS CRITICAL IF YOU ARE UPLOADING TO THE STEAM WORKSHOP



5. Save the mod.info file and going into the media folder, open the 'lua' folder with Visual Studio Code.



6. This is what you should see when the folder is open.

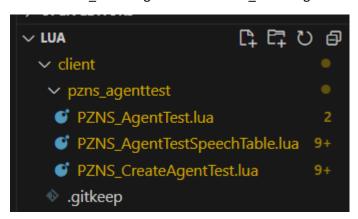


Making the Template Mod Your Own (Folder and Files)

1. Start off by renaming the folder, files, and functions/variables.

Here is the check list (case-sensitive).

- Folder 'pzns_agentwong' → 'pzns_agenttest'
- PZNS_AgentWong → PZNS_AgentTest
- PZNS_AgentWongSpeechTable → PZNS_AgentTestSpeechTable
 - <u>Keep in mind the SpeechTable is OPTIONAL if you don't want to write your own text</u> <u>dialogue.</u>
- PZNS_CreateAgentTest → PZNS_CreateAgentTest



Making the Template Mod Your Own (Functions and Variables)

In the PZNS AgentTest.lua file

1. Update the **npcSurvivorID** into whatever string that can be identified by the framework as unique. In my (cows) case, the NPCs are prefixed with "PZNS_%firstnamelastname%"

```
client > pzns_agenttest > € PZNS_AgentTest.lua > ...
 11 local PZNS_AgentTestSpeechTable = require("pzns_agenttest/PZNS_AgentTestSpeechTable");
      function PZNS_SpawnAgentTest()
       local npcSurvivorID = "PZNS_AgentTest";
          local isNPCActive = PZNS_NPCsManager.getActiveNPCBySurvivorID(npcSurvivorID);
          local isSpawned = false;
          if (isNPCActive == nil) then
             local playerSurvivor = getSpecificPlayer(0);
             local spawnX, spawnY, spawnZ = 8140, 11740, 1;
              local isInSpawnRange = PZNS_WorldUtils.PZNS_IsSquareInPlayerSpawnRange(playerSurvivor, spawnX, spawnY, spawnZ);
              if (isInSpawnRange == true) then
                  local spawnSquare = getCell():getGridSquare(
                     spawnX, -- GridSquareX
spawnY, -- GridSquareY
                     spawnZ -- Floor level
                  local npcSurvivor = PZNS_NPCsManager.createNPCSurvivor(
                     npcSurvivorID, -- Unique Identifier for the npcSurvivor so that it can be managed.
true, -- isFemale
                     "Test",
"Agent",
                      "Agent", -- Forename
spawnSquare -- Square to spawn at
```

- 2. For best practice, I highly recommend adding a Prefix (author name or mod acronym) and underscore + NPC name to identify NPCs.
 - a. Something like this: %AuthorName %AuthorNPC = "Chuck ChuckNPCName"
- 3. Then change **spawnX**, **spawnY**, **spawnZ** to wherever you want the NPC to be. If you want the NPC to spawn at the player square, use 'getSpecificPlayer(0):getSquare()' instead of spawnSquare.
- 4. Make sure to change the Surname and Forename to your needs.

Customizing the NPC

At this point, your NPC is ready to spawn, but you can set up the skills, stats, and starting backpack.

```
if (npcSurvivor ~ mil) then

if (npcSurvivor ~ mil) then

pring_UtilsNPcs.prins_SetNPCSpeechTable(npcSurvivor, PZNS_AgentTestSpeechTable); -- Cows: Speech table is OPTIONAL, remove/comment out this li

pring_UtilsNPcs.prins_AddNPCSurvivorPerkLevel(npcSurvivor, "Strength", 5);

pring_UtilsNPcs.prins_AddNPCSurvivorPerkLevel(npcSurvivor, "Strength", 5);

pring_UtilsNPcs.prins_AddNPCSurvivorPerkLevel(npcSurvivor, "Strength", 5);

pring_UtilsNPcs.prins_AddNPCSurvivorPerkLevel(npcSurvivor, "Lucky");

-- Cows: Setup npcSurvivor outfit... Example mod patcher check

-- "ada_wong" is a costume mod created/uploaded by "Satispie" at https://steamcommunity.com/sharedfiles/filedetails/?id-2908872385

if (PZNS_DebuggerUtils.PZNS_IsNAdActive("ada_wong") == true) then

prins_UtilsNPcs.pzNs_AddEquipClothingNPCSurvivor(npcSurvivor, "Base.Vest_DefaultTEXTURE");

prins_UtilsNPcs.pzNs_AddEquipClothingNPCSurvivor(npcSurvivor, "Base.Vest_DefaultTEXTURE");

prins_UtilsNPcs.pzNs_AddEquipClothingNPCSurvivor(npcSurvivor, "Base.Vest_DefaultTEXTURE");

prins_UtilsNPcs.pzNs_AddEquipClothingNPCSurvivor(npcSurvivor, "Base.Pistol");

-- Cows: Set the job...

prins_UtilsNPcs.pzNs_AddEquipClothingNPCSurvivor(npcSurvivor, "Base.Pistol");

-- Cows: Set the job...

prins_UtilsNPcs.pzNs_AddEquipClothingNPCSurvivor(npcSurvivor, "Base.Pistol");

-- Cows: Set the job...

prins_UtilsNPcs.pzNs_SetNPCOb(npcSurvivor, "Guard");

-- Cows: Set the job...

prins_UtilsNPcs.pzNs_SetNPCOb(npcSurvivor, "Guard");

-- Cows: Set the job...

prins_UtilsNPcs.pzNs_SetNPCOb(npcSurvivor, "Guard");

-- Cows: SetNPcS.pzNs_SetNPcSkinerExtureTable(npcSurvivor, 1);

prins_UtilsNPcs.pzNs_SetNPcSkinerExtureTable(npcSurvivor, 1);

prins_UtilsNPcs.pzNs_SetNPcSkinerExtureTable(npcSurvivor, 1);

prins_UtilsNPcs.pzNs_SetNPcSkinerExtureTable(npcSurvivor);

isSpowned = true;

end
```

COMMENT OUT OR REMOVE THE SPEECH TABLE LINE IF YOU DO NOT HAVE CUSTOM SPEECH

PZNS_UtilsNPCs.PZNS_SetNPCSpeechTable(npcSurvivor, PZNS_AgentTestSpeechTable); -- Cows: Speech table is OPTIONAL, remove/comment out this li

1. I will not cover the character customization details. Because the customization details and options are far more than what is actually needed for NPCs to work. Suffice to say, the more stuff you want, the more work you need to put in. Otherwise use a model replacer item as I did in the example(s).

Custom SpeechTable

The most time-consuming aspect of custom NPCs...

1. Remember to rename the variable to match what was supposed to be imported and referenced in the PZNS_AgentTest.lua (whatever you named your NPC file to be).

2. Now you need to open the translation file(s) (if you care about other languages, update them as needed, otherwise remove them from the mod).

3. English translation Example, rename the 'AgentWong' to 'AgentTest'

4. Obviously, replace the double quote "" text after each variable as needed for your NPC's customization.

Creating / Spawning the NPC in-game

- 1. Double check and replace all AgentWong reference(s) as needed.
- 2. Again, if you have no custom speech, comment out or remove all functions related to speech.

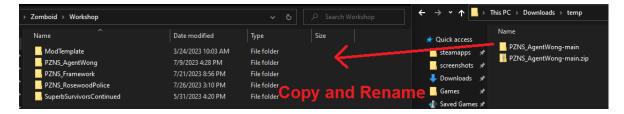
3. I have intentionally left out "idle chat" to allow greater flexibility for other modders to try and implement their own things.

Tchernobill for example, has added voice/audio to his NPC Baelin mod. https://steamcommunity.com/sharedfiles/filedetails/?id=3006185383

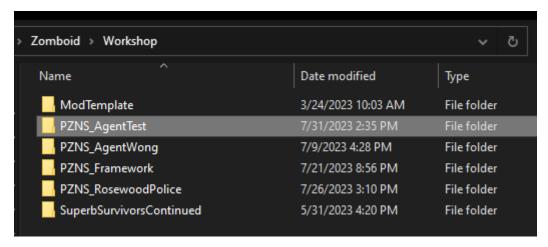
Running the NPC Mod Locally to Steam Publishing

The process I started with is using the Steam Workshop folder path... You are now free to put it in the workshop folder and run it locally and/or even publish it straight to the workshop!

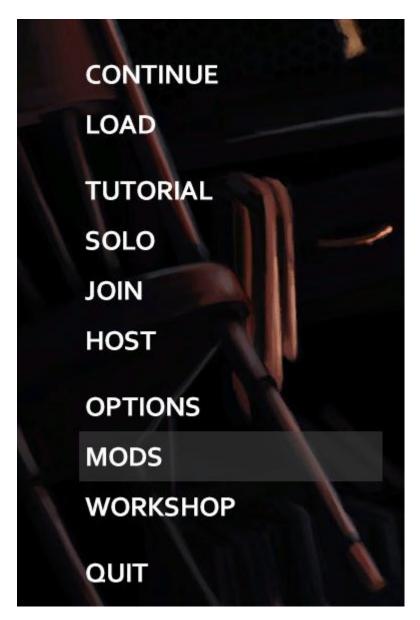
- 1. Copy the NPC mod from wherever you were working at (the example was in the Downloads/temp folder).
- 2. Paste it into the 'My documents %username/Zomboid/Workshop' folder, rename the folder to intended mod name.



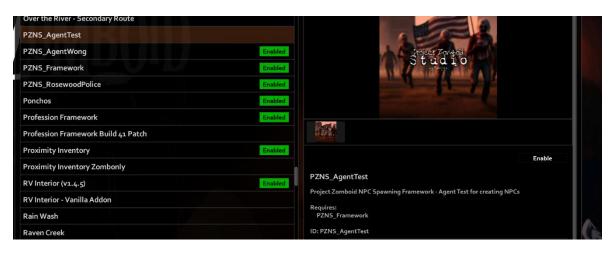
3. Now the workshop folder should include your NPC mod



- 4. Launch Project Zomboid
- 5. Go to Mods



6. Look for your NPC mod.

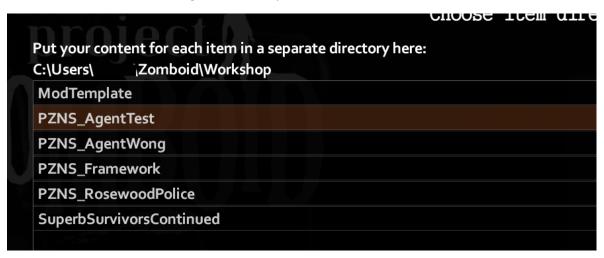


- 7. Click Enable, then click Back, Game lua will reload.
- 8. Start a new Game via solo sandbox
- 9. Move to wherever you spawned your NPC or confirm the NPC has spawned at your location.



10. I highly encourage you to quit the game and reload the save to verify the NPC data have been saved correctly.

- 11. After you verify there are no issues, your mod is ready to be published to the workshop.
- 12. From the Main Menu, go to Workshop



- 13. Follow the instructions as you see it, check all the tags, etc.
- 14. If you have issues with the workshop image, remember to replace the 'preview.png' as needed.

