**Installation Instructions**

1. **System Requirements:**
   1. **Operating system: Windows 10, Windows 11**
   2. **Programs:**
      1. **Python 3.11**
      2. **Imports:**
         1. **Pygame 2.1.3**
         2. **Sys**
         3. **Random**
         4. **Math**
         5. **Time**
         6. **Webbrowser**
         7. **OS**
      3. **Pyinstaller 5.10.1 (this make the exe file that stores all libraries that are need for the game as well as game file.**
   3. **When it comes to hardware, it works with anything that can handle python 3.11 which is:**
      1. 2 CPU, 4GB RAM and 5GB of disk space.
      2. The game size needs at least 15MB to download.
2. **Installation instructions:**
   1. There will be a zip file that you will download.
   2. After downloading, you will want to “right-click” on the zip file and select “extract all” option.
   3. After doing that, it should bring you to the game folder that stores game, manual, and resources. You will want to open that folder.
   4. Then you should see the game file, “agario”. You can open it and it should open a window that contains the game inside.
      1. You can resize the window if you want and you will have menu buttons to select from to get start with the game.
   5. **(This is optional step, but recommended)** – If you want, you can make a desktop shortcut for the game file. What you want to do is “right-click” on the game (exe) file and select the option “create shortcut”. Then it will give you a shortcut file named “agario\_shortcut”(most likely).
      1. If you want, you can rename the file by “right-clicking” it and using the “rename” option.
      2. Then you can just drag and drop it do your desktop from the folder it was at.
         1. You can also drag and drop it to the desktop tab on your user in the file explorer.
      3. You should be set with the game and get to have fun seeing how big you can get.
3. **Any Known issues that might affect installation or use:**
   1. With Windows, they like to block applications that are not register and certified. What happens is Microsoft Defender blocks the file from running, a way to get around this is to do this:
      1. On the game (exe) file, right-click the file and go to properties.
      2. In properties, at the bottom of general tab, there should be a unblock button. You want to select that and apply it.
      3. After that, the game should run without getting blocked.
   2. One known issue is if Pygame is not at version 2.1.3
      1. This should not be a problem because the .exe file of the game should have all the libraries needed to run the game with needing to download python related stuff.
   3. If the manual.html is not opening, it probably not in the same directory as the game exe file.
      1. If it is opening, but the gif files are not loading on the page, then the resource folder is not in the same directory as the manual.html file.
   4. Trying to run the game without doing “extract all”
      1. The game will not have a working manual when you try to click the button.
4. **Basic troubleshooting if the software won’t install:**
   1. For pygame, there should not be a problem, if not you should try downloading the zip file again.
      1. If that does not work, then I recommend contacting the “group 17” for help on troubleshooting.
   2. For, the user’s manual issue, you can try downloading the file again (to fix the file directory structure).
      1. Or you can make sure that the game exe file and the html file are in the same directory as well as the “resources” is in the same directory as the two files.
   3. If you miss the “extract all” step, you will have to do the install process from the beginning. This step makes sure everything is functioning right, because everything is opened properly from the zip file.