

Factory of Steam

- Game Manual -

Run from Source Code

1. Install [Python 3.11](#) or earlier (version 3.12 may not work).
2. Open your terminal of choice (Windows Powershell, Command Prompt, etc.).
3. Type the command `cd [gamedirectory]`, where [gamedirectory] leads to the folder where you have downloaded the game.
4. To install the libraries/modules, type the command `py -m pip install -r requirements.txt`.
5. Lastly, run the game by typing the command `py start.py`.

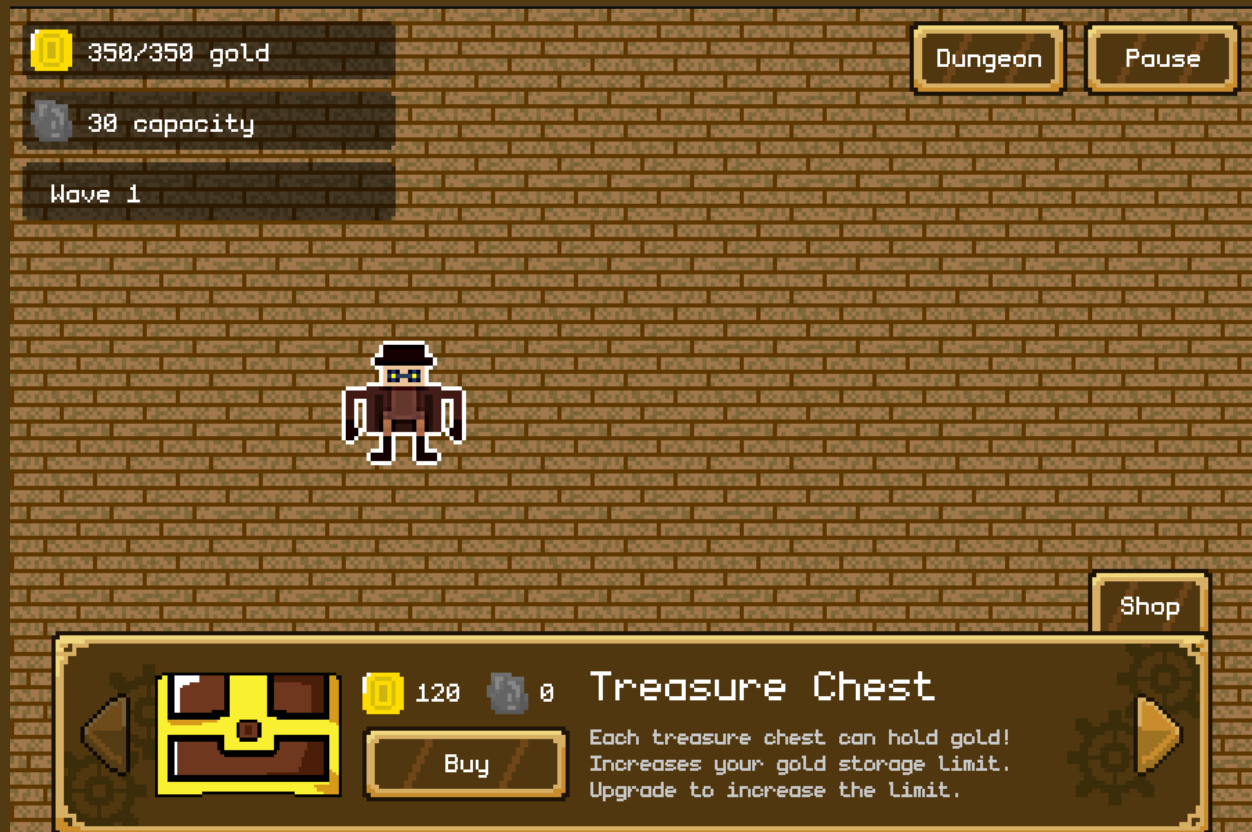
Build into an Executable

1. Follow the prior steps above in order to set up Python and the necessary modules for the game.
2. Install Pyinstaller by typing the command `py -m pip install pyinstaller`, which allows you to package executables from Python.
3. Type the command `py -m PyInstaller start.py --onefile --noconsole --icon=res/icon.ico --distpath ./ -n "Factory of Steam"`
4. Run the game by double-clicking on the executable in the game folder in file explorer.

Game Features



Main Menu: Here, you can modify the volume of the game music or SFX. You can also see the highest wave you’ve reached. Press “tutorial” to view information on how to play the game and press “play” to start the game! This menu can also be pulled up by pressing the pause button in game or by pressing the *escape* key.



The Factory: This is your homebase. Here, you can purchase, place, and upgrade buildings. Move by pressing *WASD* or the arrow keys, and press *shift* (or the “Dungeon” button) to change scenes to the Dungeon scene. You can see the amount of resources you have and your current wave in the top left.

In the shop, press the left and right buttons on either side to switch between available buildings to purchase. Read the description for each if you want to learn more about them! It’s vital to use all four buildings to succeed in the game. If you have enough resources (gold and steam capacity), press “buy” to purchase a building. Click to put the building down. You can only place a building in the displayed range around the player.



Move (using the aforementioned WASD or arrow keys) to a building in order to view its upgrade menu and description. You can also sell the building for its initial price if you'd like.



The Unit Spawner has an additional popup menu which allows you to select which warrior you want the building to spawn. Upgrade the Unit Spawner building to unlock the different warrior types! This also levels up the earlier warrior types.

Also, while Gold Generators generate gold overtime, Steam Generators generate steam once when placed down. This is meant to represent continuous generation similar to electricity, where you're required to use it to keep it.

Factory of Steam - A game made for the *BPA Software Engineering Team* competition



The Dungeon: Over the course of each wave, red enemy warriors are spawned in the corners of the map, while blue ally warriors are spawned in the center. They battle each other, and, if by the end of the wave, your warriors are overpowered and you have none left in the dungeon, you lose the game. Warriors are cleared at the end of each wave.