

# Mine Rescue MUD game

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A simple MUD game made for App Programming CW2, MSc Computing Science at UEA.

The game is a fun and immersive, multi-user, text-based, command-line game set in cowboy times in the USA. The aim of the game is to find and rescue a group of trapped miners. This is achieved by solving a series of 5 puzzles. Score is calculated on the time taken to solve puzzles and aggregated through the game. The player who finishes the game with the lowest aggregate time will position first in the leaderboard. On completion of the game the player will be given the option to delete their current game play and score and start the game again from the beginning.

The game is written in **Python version 3.12**.

## Folder structure:

**mine\_rescue\_game** ->

**scripts** -> main.py

**modules** -> character.py, help.py, inventory.py, leaderboard.py, location.py, npc.py, puzzle.py, text.py

**resources** -> user.txt, characters.txt, leaderboard.txt

**tests** -> tests\_for\_leaderboard.py, Think-Aloud testing 1, Think-Aloud testing 2

## Installation

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The game can be played through any Python IDE, but we recommend either Spyder or PyCharm for the full experience.

To install Python, follow the link and ensure that you select the correct install for your operating system:

<https://www.python.org/downloads/>

To install Spyder:

<https://www.spyder-ide.org/>

To install PyCharm (through JetBrains):

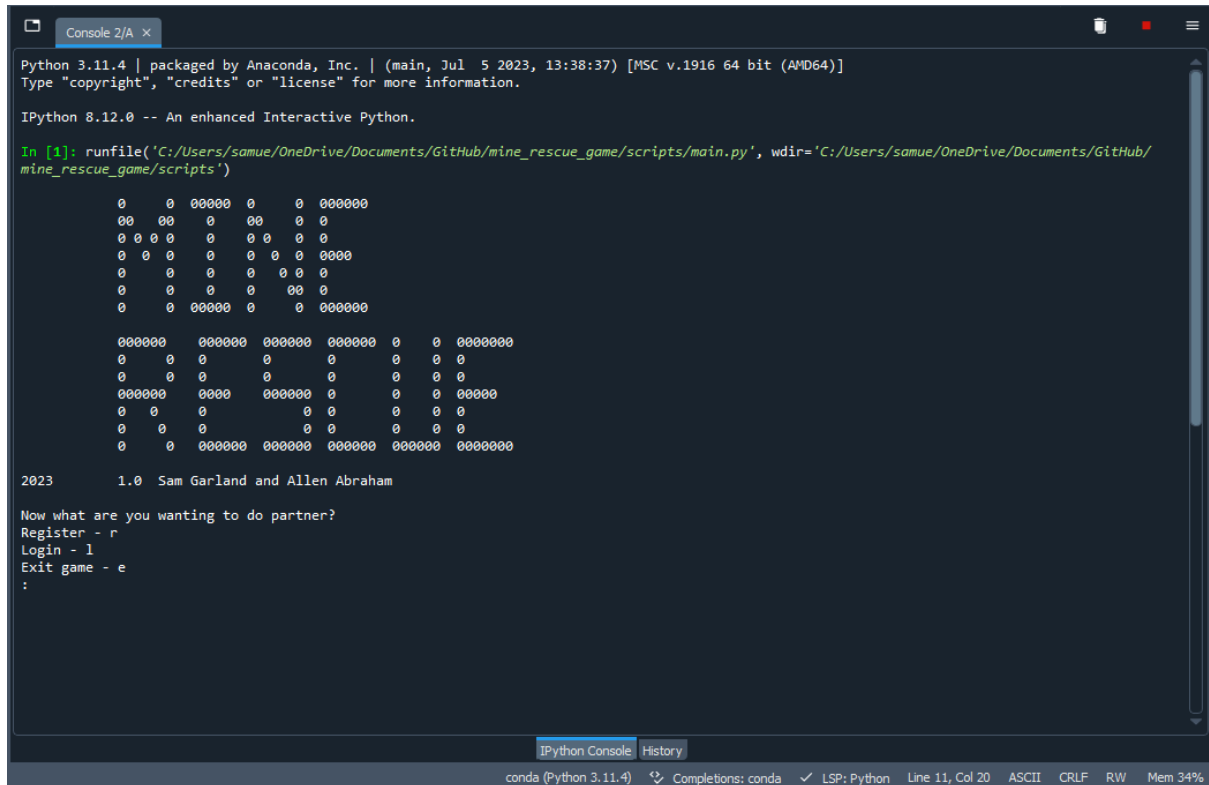
<https://www.jetbrains.com/pycharm/download/?section=windows>

Alternatively, you can use your terminal to pip install Python.

# Gameplay

When Python is installed, open **main.py** in the scripts folder and run the file.

In the console you will see the following screen:



```
Python 3.11.4 | packaged by Anaconda, Inc. | (main, Jul 5 2023, 13:38:37) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 8.12.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/samue/OneDrive/Documents/GitHub/mine_rescue_game/scripts/main.py', wdir='C:/Users/samue/OneDrive/Documents/GitHub/
mine_rescue_game/scripts')

      0 0 00000 0 0 000000
    00 00 0 00 0 0
    0 0 0 0 0 0 0 0
    0 0 0 0 0 0 0 0 0000
    0 0 0 0 0 0 0 0
    0 0 0 0 0 0 00 0
    0 0 00000 0 0 000000

    000000 000000 000000 000000 0 0 000000
    0 0 0 0 0 0 0 0 0
    0 0 0 0 0 0 0 0
    000000 0000 000000 0 0 0 00000
    0 0 0 0 0 0 0 0
    0 0 0 0 0 0 0 0
    0 0 000000 000000 000000 000000

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Now what are you wanting to do partner?
Register - r
Login - l
Exit game - e
:
```

Select **r** to **register**. You will be prompted to enter a username and password, and to login to ensure that they have been stored correctly.

You will then be prompted to create a character:

```
Console 2/A x
Welcome to the game!
Time to saddle up and create yer character!

You'd better choose ya'll a character! Now let's see to that.
Now, choose your type of character from the list:
Sherrif - s
Gunslinger - g
Cowgirl - c
Blacksmith - b
:b

You've chosen Blacksmith!

What gender are ya'll?
Male - m
Female - f
Non-binary - n
Other - o
:
```

IPython Console History  
conda (Python 3.11.4) Completions: conda ✓ LSP: Python Line 11, Col 20 ASCII CRLF RW Mem 35%

Continue until character is created. You will then receive the game briefing and start the game:

```
Console 2/A x
Welcome to Mine Rescue, the ultimate test of skills, set in the daring and rugged expanse of the wild west.

A dreadful situation has unfolded at the local mine near your town.
A terrible accident has caused the locals who work in the mine to be trapped!

Your mission, if you choose to accept, is a race against time to save the miners trapped below.
A critical expedition lies before you in the dark and dangerous tunnels of the mine.

So gather your resolve explorer, and prepare to venture into the unknown. The mysteries of the mines are yours to solve, each bringing you a
step closer to the miners below.

Whoa there, who's that fella running at you from the entrance of the mine Readme?
[A mine worker runs up to you speaking an unknown language.]
[He babbles:] Tm st ymj fwj fqq ytwwid!
```

IPython Console History  
conda (Python 3.11.4) Completions: conda ✓ LSP: Python Line 11, Col 20 ASCII CRLF RW Mem 35%

The game continues through 5 puzzles, with progress saved on the completion of each puzzle.

To exit the game, select **e** when made available, or manually crash the game by stopping the programme from running. Beware, if you exit before completing a puzzle, your puzzle progress will be lost.

Enjoy the game!

## Contributors

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