

TheMazeChallenge

March 20, 2020

1 The Maze Challenge

Explore the colorful maze and complete the quests. You can find in the `example.py` file the command you can send to the Challenge engine. Remember to make a report of your work explaining all the choices you made to solve the quests.

1.1 Quests

- Move and collect statistics from maze status
- Count the total cells in the maze (White, Red, Blue, Green)
- Count the number of Red, Blue and Green cells
- Plot the histogram of the color frequency distribution for X e Y coordinates
- Plot the explored maze as a map

1.2 Advanced quests

- Try to explore a maze with a different seed (delete the `seed.maze` file or rename it)
- Compare the histogram distribution with the previous maze
- Create a client that allows you to move into the maze with the arrow keys

2 My solution

```
In [1]: print("My client program is this...")
```

```
My client program is this...
```

And this is a detailed description of my program...