

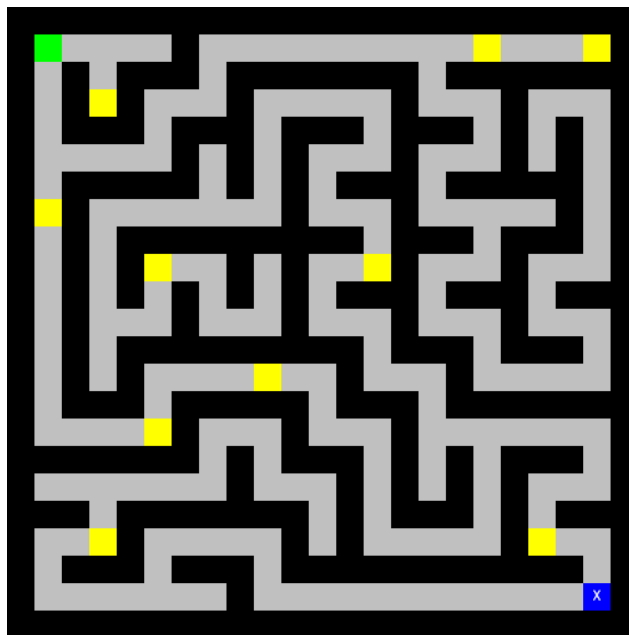
MAZETOOL 3.2: A simple game for analysis

Access the game at this URL (Chrome or Firefox urgently recommended):

<https://ps3.perlenspiel.net/examples/mazetool3/mazetool3.html>

Mazetool 3.2 is a simple maze run played on randomly generated perfect mazes.

A **perfect maze** has no loops and no inaccessible locations. Any two locations are connected by a single path.



Each maze contains an **actor** in the top left corner (the green box), an **exit** in the bottom right corner (the blue box marked with an X), and **ten gold pieces** which are randomly distributed.

When you click on the cover page to open the game, an input box at the top of the screen prompts you to input your username, which is **your WPI email address without the @wpi.edu suffix**. A second prompt will ask for your PIN, which is **the last four digits of your student ID number**.

NOTE: Only students/instructors participating in IMGD 2905 are recognized by the server. Anyone else who wants to play can enter the generic username **player** to gain access. No PIN is required in this case.

If you have previously saved a maze, it is automatically reloaded at startup.

The game begins in edit mode. If you click on the actor, the exit or a gold piece, that object is “picked up” and sticks to your cursor. You can then move it by clicking on any unoccupied floor space. NOTE: None of the control buttons can be pressed while you’re “holding” a map object.

While in Edit mode, you can save your maze design by pressing the **Save** button. Once a game has been saved, the **Load** button can be pressed anytime to reload that maze and return to Edit mode. (Sorry, only one save slot is supported in this version.)

When you’re satisfied with your maze design, press the **Play** button to play.

Uh oh! The exit disappeared. You must collect all ten gold pieces to reveal it again. Then click on the exit to escape with your loot.

When you reach the exit, an Excel spreadsheet is automatically emailed to your WPI email address. This spreadsheet contains a complete record of every event that happened during gameplay. See below for details.

Press the Reset button at any time to reset the current maze to its initial state, and return to Edit mode.

Press the Random button at any time to generate a new random maze, and return to Edit mode.

time	click	gold	exit
00:03.0	0		
00:13.6		1	
00:14.0	106		
00:21.3		2	
00:21.6	180		
00:23.4		3	
00:23.7	198		
00:25.7		4	
00:26.0	218		
00:27.0		5	
00:28.4	228		
00:30.8		6	
00:31.1	252		
00:35.3		7	
00:35.6	294		
00:36.4		8	
00:37.7	302		
00:55.5		9	
00:55.9	480		
01:00.7		10	
01:01.9	528		
01:08.1			590

Looking at the data

Your gameplay data should appear in neatly formatted rows and columns. Three types of game events are recorded: Mouse clicks, gold grabs, and reaching the exit.

The **time** column indicates the time of each game event (in minutes, seconds and milliseconds), beginning with the first mouse click.

The **click** column shows the moment of each mouse click. The value indicates the **total** number of path spaces traversed by the player up to that moment.

The **gold** column shows the moment each piece of gold was grabbed, numbered in sequence.

The **exit** column shows the moment the exit was reached. The value indicates the **total** number of path spaces traversed over the course of the game.

MAZEPLAY 3.2

Mazeplay 3.2 is a simplified version of Mazetool 3.2, used for playesting previously saved mazes.

The app is located here:

<https://ps3.perlenspiel.net/examples/mazeplay3/mazeplay3.html>

Enter your username and PIN at startup. Your saved game (if any) will load automatically.

When a game is completed, an email will be sent to you containing the event data.