

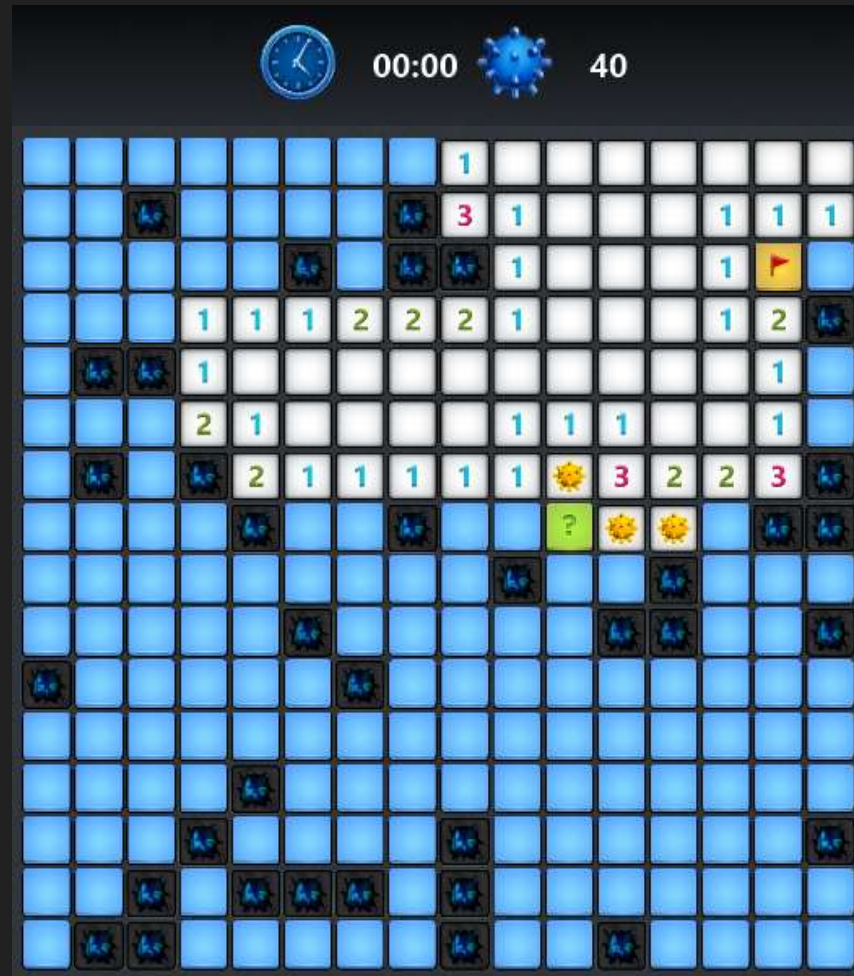
# Minesweeper

Play or not play?

# Contents

- Game overview
- Game rules
- World records
- Applications for playing
- What is 3BV?
- Possible gameplay variations
- Tips and tricks

# Game overview



# Game rules

- Clean board and find all mines, without exploding!
- Grid of cells
- Mines
- Flags
- ~~○ Questionmarks~~
- Numbers

# Game modes

	Beginner	Intermediate	Expert
Width	9	16	30
Height	9	16	16
Mines	10	40	99

Also available custom mode, for customizable board game.

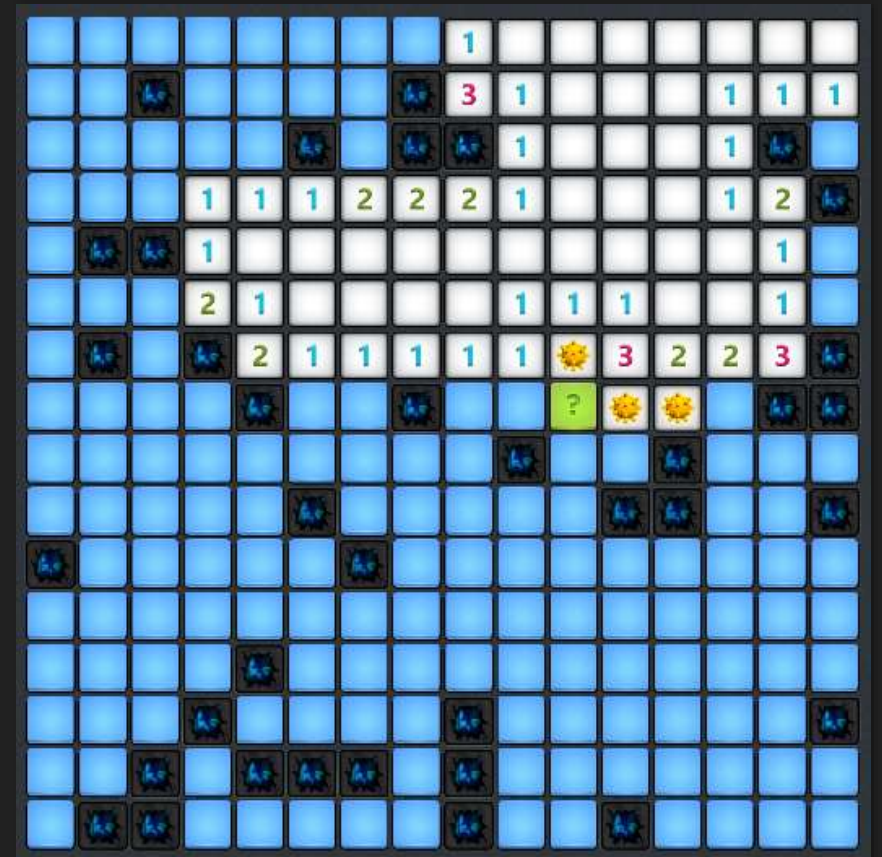
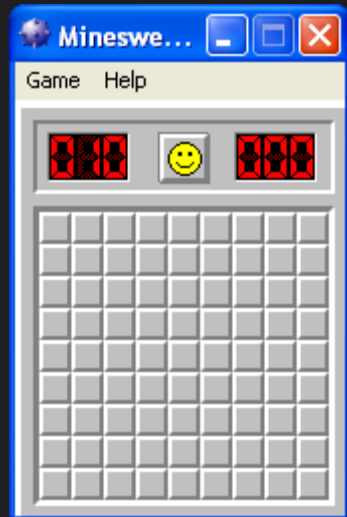
# World records

- Who was a first person scored 4 seconds on Beginner?
- Beginner – No time record
- Intermediate – 7.03 seconds
- Expert – 31.133 seconds
- World's best player – Kamil Muranski (Poland). Sorry no photos :-(

# Game applications for playing

- It depends on platform that you are using, and personal preferences
- Any Windows implementation (most beautiful Windows 10 App)
- Any Linux implementation (Gnome Mine etc.)
- Any Android/iOS implementation
- Minesweeper X (Preferred by professional players)

# Classic Windows applications

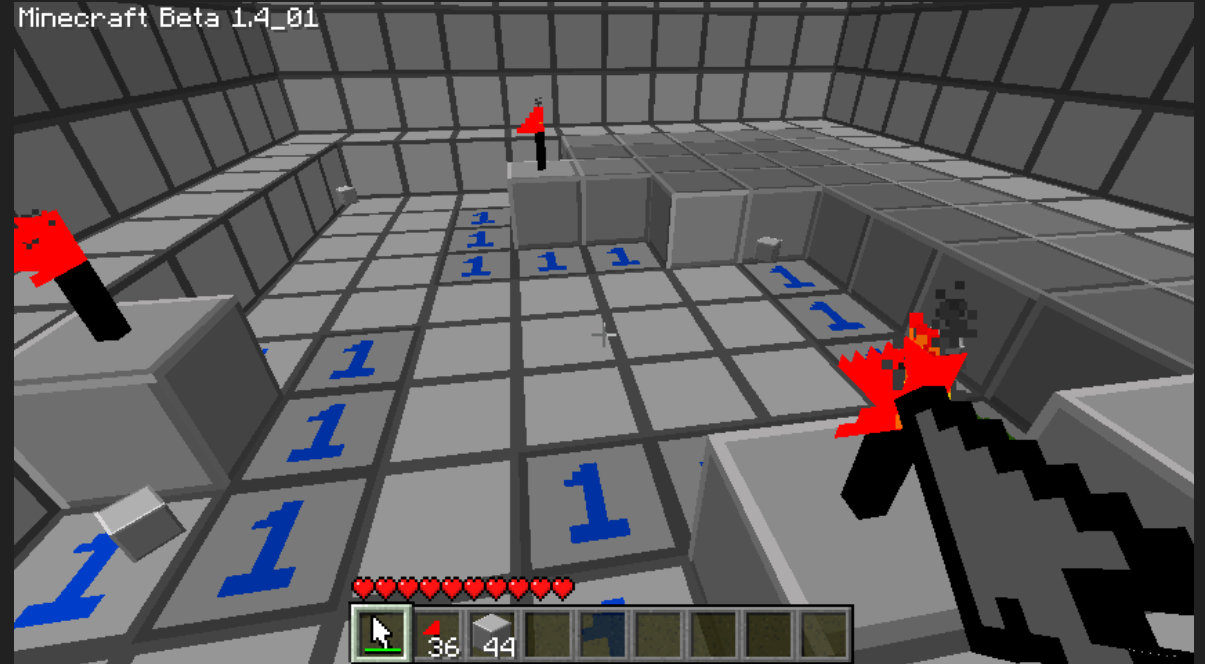
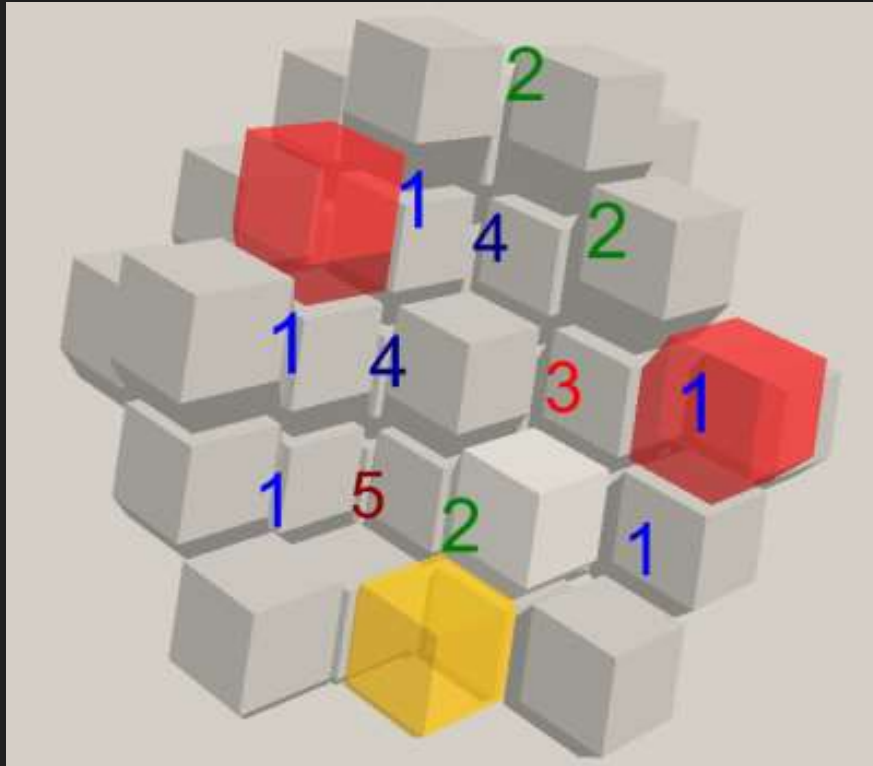




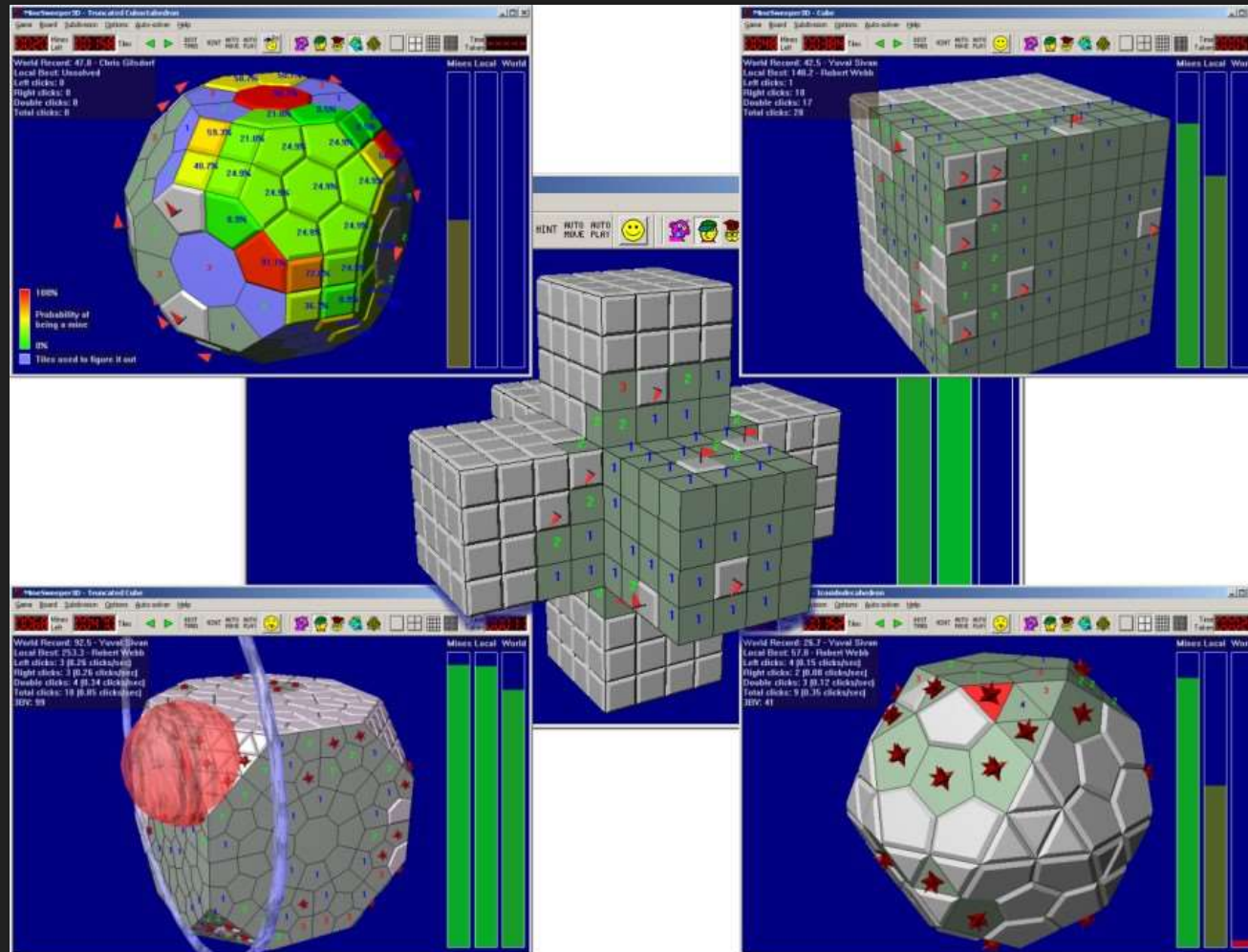
# Minesweeper with Story Mode



# Other different variations



# Minesweeper 3D for true nerds!

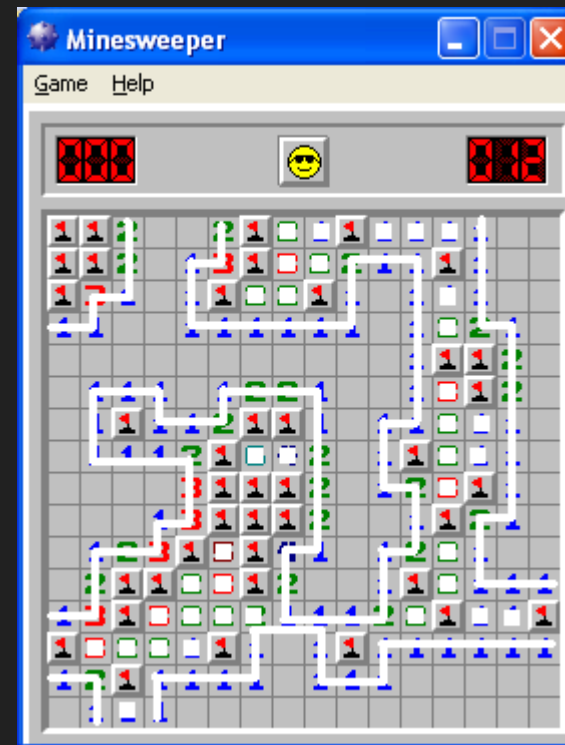


# What is 3BV

- 3BV – the minimum number of clicks required to clear a board.
- It's a way to recognize Minesweeper board's complexity to solve them (good, but not perfect)

# How it works

- This game requires a minimum of 39 left clicks.





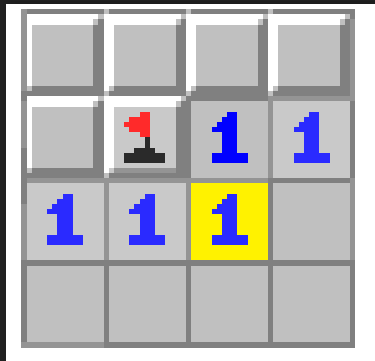
# Possible gameplay variations

- Just simple play and solve classic modes
- Solve classic modes at least time cost
- Solve classic modes without using "flags"
- Solve custom games with maximum(or different) grid size

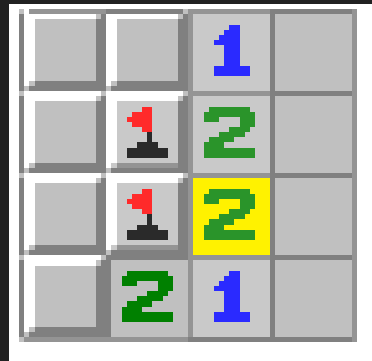
# Basic tips

- Don't use Questionmarks
- Use F2 to start new game
- Avoid moving the mouse without reason
- Ignore the clock
- Listen music while playing
- Use 1.5 click

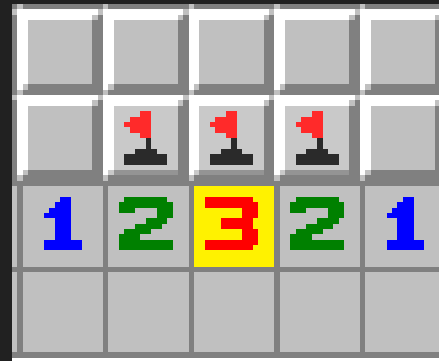
# Advanced tips. Patterns. Basic



#1



#2



#3



#4



# Advanced tips. Patterns. Basic



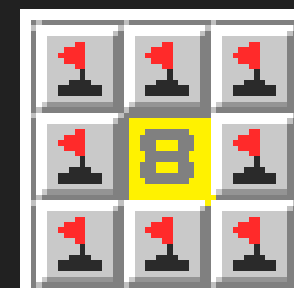
#5



#6

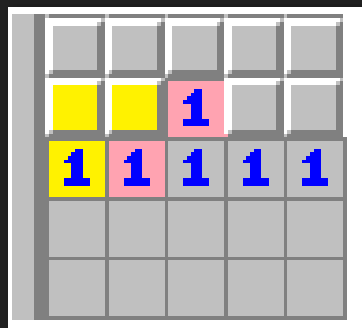


#7

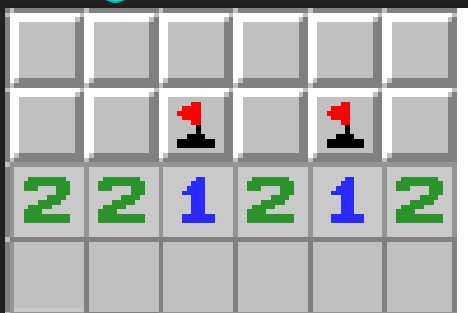


#8

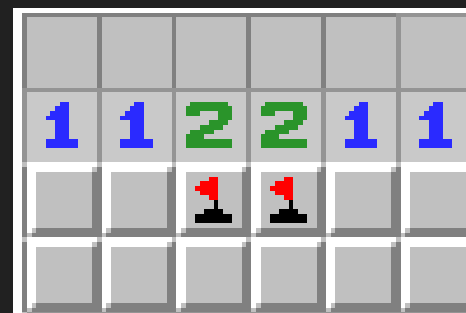
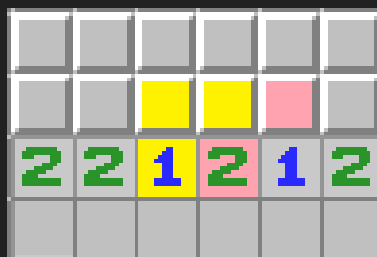
# Advanced tips. Patterns. Basic



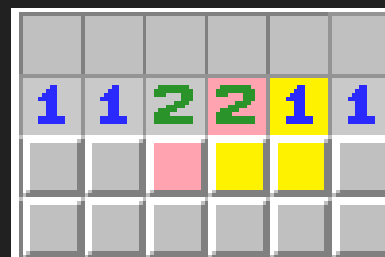
# Advanced tips. Patterns. Famous



121



1221



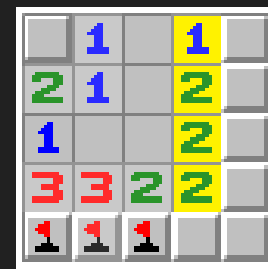
# Advanced tips. Patterns. Reduced



242



242



1222



2331

# Advanced tips. Patterns. Reduced

3	2	3	1	3	1
2	1	2	1	4	1
3	2	2	2		
1	2	2	2		

222

1	1	3	2	3	1	1
		1	1	1		
		1	1	1		

13231

1	2	3	3	1	1
	1	1	1		
	1	1	1		

2331

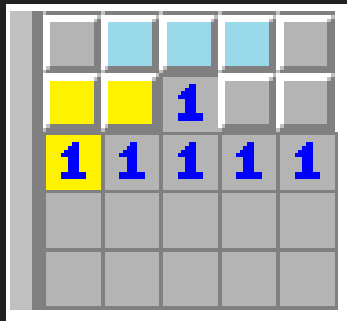
	2	2	2	2	
1	1			2	
				1	

Last

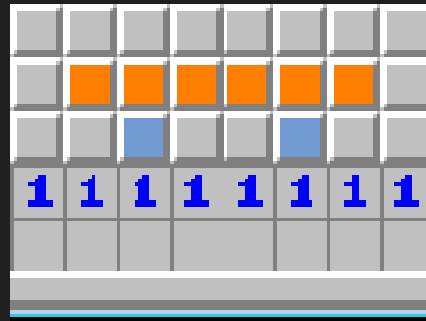
# Advanced tips. Patterns. Guessing



A



B



C



D

# Advanced tips. Patterns. Guessing

- Solve part of a board and no more playing cells available – then just click randomly! (The average chance of hitting a mine is 0.206 on Expert and 0.156 on Intermediate and Beginner)
- 50/50% - the worse thing you need to guess
- 1<sup>st</sup> click safe and 50%50 in corner
- 33/66% - common mistake guess 33/66% into 50/50% instead of solving it.

# Advanced tips. First Click

Chances for of finding openings

	Beginner	Intermediate	Expert
Corner	50 - 60%	50 - 60%	40 - 50%
Edge	34 - 42%	36 - 43%	25 - 32%
Middle	19 - 24%	21 - 26%	12 - 16%

Chances for get large opening

	Beginner	Intermediate	Expert
Corner	18%	27%	16%
Edge	20 - 24%	31 - 42%	19 - 26%
Middle	23 - 32%	35 - 66%	23 - 41%

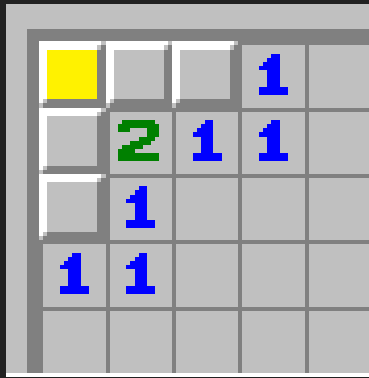


# Advanced tips. Efficiency

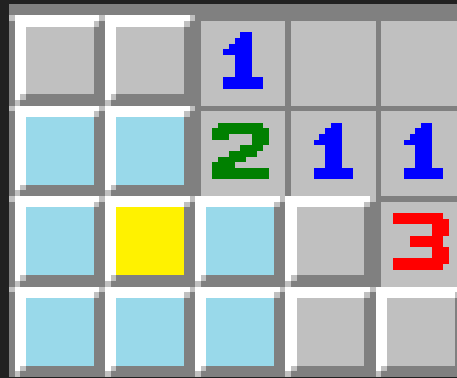
- The fewer clicks you take, the faster you will finish. Learn to be efficient.
- The game ends when all safe squares are open, not when all mines are flagged.



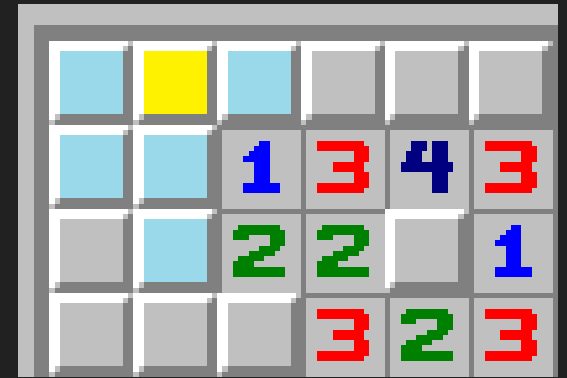
1



2



3

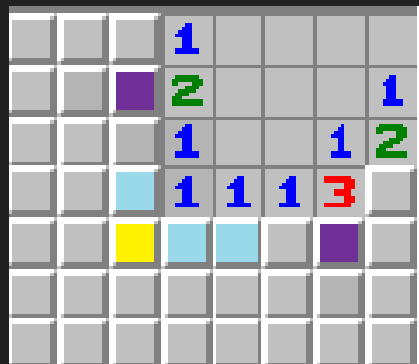


4

# Advanced tips. Efficiency



5



6



7



8

# Useful links

- <https://en.wikipedia.org/wiki/Minesweeper> (video game)
- <http://www.minesweeper.info/>
- <http://www.minesweeper.info/wiki/Strategy>
- <http://www.minesweeper.info/downloads/MinesweeperX.html>
- <http://www.software3d.com/Mines3D/index.php>