

# Sudoku Desktop Application

## User Manual



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# 1.0 - Introduction

Welcome. This user guide will cover how to use and get the most out of your Sudoku desktop application. In this section, you'll learn what the Sudoku desktop application is, what it does, and how to use this user guide to get the most out of your application.

The Sudoku application was developed by a team of computer science students at the University of Oregon for a core course. The application contains features that were required based on one customer's preferences.

## **1.1 System Overview**

This Sudoku desktop application was designed to give Sudoku enthusiasts a nifty application they could play on their computers or laptops on-the-go. The application offers thousands of Sudoku puzzles in varying difficulties, giving the user higher replayability. The application allows users to start a puzzle, save it and resume it later after exiting the program. A timer is installed, giving the user the ability to time themselves, and also saves the user's best times for each difficulty. Other in-game features include a list of legal moves given for the selected tile, highlighting numbers, and getting hints and the solution. All of these features and functionalities are covered more in-depth in section 4.

One unique feature this application also offers is for the user to create their own Sudoku puzzles. They can be inspired by anything, either from imagination, a puzzle found in the newspaper, etc. Users can create new puzzles, play them, solve them, and delete them. Players can export these puzzles and send them to friends with the application to challenge them, or they can import puzzles from other users as well. This feature is covered more in-depth in section 5.

## **1.2 Organization of the Manual**

This manual is divided into seven sections total. This first section was to provide an overview of what the Sudoku desktop application was about and what it offered. In the second section, you will learn about the system requirements needed to run the software, the access levels, and user contingencies. The third section will show you how to download, install, and run the program.

The fourth section introduces you to the bulk of the program. There, you will learn how to navigate the home menu, how to start a new puzzle, resume a saved puzzle, view your statistics, or best times, change the settings, and how to exit the application. You will also learn how to play Sudoku and how to play it on the program's interface. You will also learn how to highlight, insert, and delete numbers as well as get hints and solutions.

In the fifth section, you will learn how to create your own Sudoku puzzles. You will learn how to create a new puzzle, edit a puzzle, play and solve puzzles, and also how to import and export puzzles. You will also learn about the file system and where the application saves all of your data.

The sixth section includes a troubleshooting guide, which you can refer to if something in the program goes wrong. There, you will find many different problem scenarios that offer a diagnosis and suggested solution for each problem. Hopefully, you

will never need to refer to this section. The seventh and final section contains the credits, and download links to resources mentioned in the guide.

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## 2.0 – System Summary

In this section, you will learn what system requirements you will need to run the software, and how to meet them if you do not. You will also learn who can use the application, and who has access to your data. Finally, you will learn about some of the contingencies that can occur, and what the program's response will be to them.

## 2.1 System Requirements

To run the application, your computer must have Java 8 or a later version installed. If you have an older version of java, you can [click here](#) to download the most recent version. Once you've downloaded the java update package, open the folder and select the executable download file to start the download. Follow the prompted instructions given on the screen to finish downloading and installing your Java update.

If the above link doesn't work, go to [www.oracle.com](http://www.oracle.com). From there, hover over the 'Downloads' tab, then select 'Java for Your Computer'. You will be taken to the download page where you can download the most recent version of Java. Select the package that matches with your operating system. Then follow the instructions in the above paragraph to install the update.

## 2.2 User Access Levels

After installing the program, anyone who has access to your desktop can use the program and manipulate your data. To prevent this, it is recommended that you change your user account settings to require administrative access to run the program or to access your desktop. Refer to your computer's manual on how to do this.

## 2.3 Contingencies

Unfortunately, there are cases where unexpected events can occur that cause our computer to crash or do unexpected things. Your data is not saved until you exit the application, so any unsaved data that you have before the crash happens will be lost. This only includes your saved game, best times, and any edits made on one of your puzzles after your last save.

If you delete the saved data on your computer while the program is running, it could cause certain buttons to become unresponsive or could crash the program. To prevent this, do not open and manipulate your program's save files while the program is running.

