

Take Control of Sudoku

<<http://WWW.HyperInfo.CA/Sudoku/>>

			3		4			5
		4					8	
	2			9				4
4					8			
		3				7		
			2					6
9				4			1	
	6					3		
1					6			

3x3
SEE
Method

3-by-3

Sub-grid
Exhaustive
Elimination

Method

1	1	9	3	7	4	2	6	5
5		4	6	2	1	9	8	3
3	2		8	9	5	1	7	4
4	9	2		6	8	5	3	1
6	5	3	4		9	7	2	8
7	8	1	2	5	3	4	9	6
9	3	8	5	4	2	6	1	7
2	6	5	1	8	7	3	4	9
1	4	7	9	3	6	8	5	2

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- MagneScribe™: A 3-in-1 Auto-Retractable Pen <<http://MagneScribe.com/>>

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[Credit]

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Description [Version 0.9]

- **Solve 5-Star Sudoku Puzzles with the 3x3 SEE (3-by-3 Sub-grid Exhaustive Elimination) Method!**
- The origin of **Sudoku** can be traced back to Swiss mathematician **Leonhard Euler**, who devised "Latin Squares" in 1783, which he described as "a new kind of magic squares". **Euler** created a grid in which every number or symbol appears once in each row or column.
- **Sudoku** puzzles were first published in the late 1970's in Math Puzzles and Logic Problems magazine by **Dell Magazines**. **Dell** took **Euler**'s Latin Square concept and applied it to a 9x9 grid with the addition of nine 3x3 boxes, each containing all numbers from 1 to 9. **Dell** called the puzzle "Number Place" and still do today.
- There are many excellent on-line tutorials for solving **Sudoku** puzzles. Here are some examples from which you can learn the concept and basic skills to solve 1-star (very easy) to 3-star (medium) **Sudoku** puzzles.
 - **Sudoku**
<<http://en.wikipedia.org/wiki/Sudoku>>
 - **Sudoku puzzles: how to solve**
<<http://www.sudoku.com/howtosolve.htm>>
 - **sudoku tutorial**
<<http://www.kingfeatures.com/features/puzzles/sudoku/tutorial.htm>>
- This E-book is meant to give power to the people who want to solve difficult **Sudoku** puzzles but lack the time to read books with hundreds of pages.
- The concentrated knowledge presented in this E-book will allow you to quickly master the techniques in order to solve 4-star (difficult) to 5-star (very difficult) **Sudoku** puzzles without guessing whatsoever.
- Instead of having a unique solution, some **Sudoku** puzzles have no solution or have multiple solutions.
- Out of hundreds **Sudoku** puzzles published in several newspapers, there has been 0 (zero) **Sudoku** puzzle that could not be solved by the **3x3 SEE Method**.
- The basic approach of the **3x3 SEE Method** is systematic logic and reasoning.
 - A **row** refers to a horizontal 9 x 1 matrix.
 - A **column** refers to a vertical 1 x 9 matrix.
 - A **box** refers to a 3 x 3 matrix.

 - A **cell** refers to a spot in which a number is placed.
 - A **sub-grid** refers to a 3 x 3 matrix inside each cell.

How to Play

			3					5
		4					8	
	2			9				4
4					8			
		3				7		
			2					6
9				4			1	
	6					3		
1					6			

- This one is a 5-star **Sudoku** puzzle (very difficult).
- To solve the puzzle, each **row**, each **column**, and each **box** must contain all the numbers 1 through 9.
- The same number must be used only once in each **row**, in each **column**, and in each **box**.

Scan within Three Rows

			3		4			5	←
		4						8	←
	2			9				4	←
4					8				
		3				7			
			2					6	
9				4			1		
	6					3			
1					6				

1. Focus on the first set of **three rows**, as shown above.
2. Search for two numbers or one number within the **three rows**.
 - "4" in red circles
3. Find a unique cell in which the selected number can be placed.
 - "4" in green
4. Repeat steps 2 through 3 within the **three rows**.
5. Focus on the second set of **three rows** and repeat steps 2 through 3.
6. Focus on the third set of **three rows** and repeat steps 2 through 3.

Scan within Three Columns

			3		4			5
		4					8	
	2			9				4
4					8			
		3				7		
			2					6
9				4			1	
	6					3		
1	4				6			

↑ ↑ ↑

1. Focus on the first set of **three columns**, as shown above.
2. Search for two numbers or one number within the **three columns**.
 - "4" in red circles
3. Find a unique cell in which the selected number can be placed.
 - "4" in green
4. Repeat steps 2 through 3 within the **three columns**.
5. Focus on the second set of **three columns** and repeat steps 2 through 3.
6. Focus on the third set of **three columns** and repeat steps 2 through 3.

Get Stuck

			3		4			5
		4					8	
	2			9				4
4					8			
		3	4			7		
			2					6
9				4		6	1	
	6					3		
1	4				6			

- Repeat scanning sets of **three rows** and sets of **three columns** because the situation changes when a number is placed in a cell.
- In this example, only two more numbers can be entered by repeating the scanning process.
- The Scanning Method may be enough to solve 1-star (very easy) to 3-star (medium) **Sudoku** puzzles.
- More difficult ones, such as the 5-star (very difficult) **Sudoku** puzzle of this example, cannot be solved by the Scanning Method alone.

Mark Sub-grids

	1	1	3	1	4	1		5
	1	4	1	1	1	1	8	1
	2	1	1	9	1	1		4
4	1	1	1	1	8	1		1
	1	3	4	1	1	7		1
	1	1	2	1	1	1		6
9				4		6	1	
	6		1	1	1	3		
1	4				6			

1. Starting with number 1, examine each cell to see if the number can be placed there, excluding prohibitive zones of the **row** in which the number belongs, of the **column** in which the number belongs, and of the **box** in which the number belongs, as shown above.

- Large "1" in red circles

2. Mark the sub-grid with the number.

- Small "1" everywhere

3. Repeat marking sub-grids with numbers 2, 3, 4, 5, 6, 7, 8, and 9.

Check the Exhaustive Sub-grids

	1	1	3	1 2	4	1 2	2	5
6	7 8	7 8 9	6	7 8	6	9	7 9	6
3	1 3	4	1	1 2	1 2	1 2	8	1 2 3
5 6	7 9	5 6	7	5 6	7	9	7 9	5 6
3	2	1	1	9	1	1	3	4
5 6	7 8	5 6	7 8	5 6	7	7	6	7 8
4	1	1 2	1	1 3	8	1 2	2 3	1 2 3
5	7 9	5 6	7 9	5 6	7	5	9	9
2	1	3	4	1	1	7	2	1 2
5 6	8 9	5 6	7 8	5 6	9	5	9	8 9
5	1	1	2	1 3	1 3	1	3	6
7 8	7 8 9	7 8 9	7 8	5	7 9	4 5	4 5	8 9
9	3	2	5	4	2 3	6	1	2
5	7 8	5	7 8	5	7	6	7 8	5
2	6	2	1	1 2	1 2	3	2	2
5	7 8	5	7 8 9	5	7 9	3	4 5	7 8 9
1	4	2	5	2 3	6	2	2	2
7 8	7 8	5	7 8 9	5	7 8	5	7 9	7 8 9

- Sub-grid marking is time-consuming and requires self-discipline. High quality sub-grids are essential for solving the puzzle. Therefore, it is highly recommended that you double-check the numbers in the sub-grids.
- There is a website that automatically generates **Exhaustive Matrix** online. The printable **Exhaustive Matrix** is correct by construction.
 - **Sudoku**
<http://WWW.HyperInfo.CA/Sudoku/>
- The puzzle is now ready for the 3x3 **SEE Method**.

Identify Single Numbers -> Eliminate!

	1	1	3	1 2	4	2	2	
6	7 8	6	3	6	4		6	5
7 8	7 8 9	7 8 9		7 8		9 7	9	
3	1 3		1	1 2	1 2	2		2 3
5 6	5	4	5 6	5 6	5		8	
7	7 9		7	7	7	9	7 9	
3		2	2		2	1	3	
5 6	2	5 6	5 6	9	5		6	4
7 8	7 8	7 8	7 8	7	7	7	6	4
4	1	1 2	1	1 3	8	2	2 3	1 2 3
	5	5 6	5 6	5 6		5	5	
7 9	7 9	7 9	7 9	7		9	9	9
2	1		4	1	1		2	1 2
5 6	5	3		5 6	5	7	5	
8	8 9			9	9		9	8 9
5	1	1	2	1 3	1 3	2	3	
7 8	7 8 9	7 8 9	2	5	5	4 5	4 5	6
				7	7 9	8 9	9	
9	3	2		2 3		6	1	2
	5	5	5	4	5			
7 8	7 8	7 8	7 8	7	7		7 8	
2		2	1	1 2	1 2		2	2
5	6	5	5	5	5	3	4 5	
7 8	7 8	7 8	7 8 9	7 8	7 9	7 9	7 9	7 8 9
1	4	2		2 3		2	2	2
		5	5	5	6	5	5	
		7 8	7 8 9	7 8		8 9	7 9	7 8 9

1. If there is a single number in any cell anywhere, then select the number, as shown above.

- Small "1" in green circle

2. Eliminate the number within the **row** to which the number belongs, within the **column** to which the number belongs, and within the **box** to which the number belongs.

- Small "1" in red Xs

Identify Unique Numbers within a Row -> Eliminate!

6 7 8	1 7 8 9	1 7 8 9	3	1 2 7 8	4 6	• 2 9 7	2 6 9	5
3 5 6 7	1 3 5 7 9	4	1 5 6 7	1 2 5 6 7	1 2 5	• 2 9	8	• 2 3 7 9
3 5 6 7 8	2	• 5 6 7 8	• 5 6 7 8	9	• 5 7	1	3 6 7	4
4	1 5 7 9	1 2 5 6 7 9	1 5 6 7 9	1 2 5 6 7	8	• 2 5 9	2 3 5 9	1 2 3 9
2 5 6 8	1 5 8 9	3	4	1 5 6 7	1 5 9	7	2 5 9	1 2 8 9
5 7 8	1 5 7 8 9	1 5 7 8 9	2	1 5 7	1 3 5 7 9	• 4 5 8 9	3 4 5 9	6
9	3 5 7 8	2 5 7 8	5 7 8	4 7	2 5	6	1 7 8	2
2 5 7 8	6	2 5 7 8	1 5 7 8 9	1 2 5 7 8	1 2 5 7 9	3	2 4 5 7 9	2 7 8 9
1	4	2 5 7 8	5 7 8 9	2 5 7 8	3 6	2 5 8 9	2 5 7 9	2 7 8 9

1. Focus on one **row**, as shown above.
2. If there is a unique number in any cell within the **row**, then select the number.
 - Small "3" in green circle in row 9
3. Eliminate the number within the **column** to which the number belongs, and within the **box** to which the number belongs.
 - Small "3" in red Xs
4. Repeat steps 2 through 3 in all **nine rows**.

Identify Unique Numbers within a Column -> Eliminate!

6 7 8	1 7 8 9	1 7 8 9	3	1 2 7 8	4	• 2 9 7 9	2 6 9	5
3 5 6 7	1 3 5 7 9	4	1 5 6 7	1 2 5 6 7	1 2 5 7	• 2 9	8	• 2 3 7 9
3 5 6 7 8	2	• 5 6 7 8	• 5 6 7 8	9	• 5 7	1	3 6 7	4
4	1 5 7 9	1 2 5 6 7 9	1 5 6 7 9	1 5 6 7 9	• 8	• 2 5 9	2 3 5 9	1 2 3 9
2 5 6 8	1 5 8 9	3	4	1 5 6 5	1 5 9	7	2 5 9 8 9	1 2 9 8 9
5 7 8	1 5 7 8 9	1 5 7 8 9	2	1 5 7	• 1 5 7 9	3	4 5 8 9	4 5 9 6
9	3 5 7 8	2 5 7 8	5 7 8	4	5 7	6	1 7 8	2
2 5 7 8	6	2 5 7 8	1 5 7 8 9	1 2 5 7 8	1 2 5 7 9	3	2 4 5 7 9	2 7 8 9
1	4	2 5 7 8	5 7 8 9	3	6	2 5 8 9	2 5 7 9	2 7 8 9

↑

1. Focus on one **column**, as shown above.
2. If there is a unique number in any cell within the **column**, then select the number.
 - Small "3" in green circle in column 6
3. Eliminate the number within the **row** to which the number belongs, and within the **box** to which the number belongs.
 - Small "3" in red Xs
4. Repeat steps 2 through 3 in all **nine columns**.

Identify Unique Numbers within a Box -> Eliminate!

	1 6 7 8	1 6 7 8 9	3	1 2 6 7 8	4	• 2 2 9 7	2 6 9	5	
	3 5 6 7	1 3 5 7 9	4	1 5 6 7	1 2 5 6 7	• 2 5 9	8	• 2 3 7 9	
	3 5 6 7 8	2	• 5 6 7 8	• 5 6 7 8	9	• 5 7	3 6	4	
4	1 5 7 9	1 2 5 6 7 9	1 5 6 7 9	1 • 5 6 7	8	• 2 5 9	2 3 5 9	1 2 3 9	
2	1 5 6 8	5 8 9	3	4	1 5 6 9	1 5 9	7	2 5 9	1 2 8 9
5	1 5 7 8	5 7 8 9	5 7 8 9	2	1 • 5 7	3	• 4 5 8 9	5 9	6
9	3 5 7 8	2 5 7 8	5 7 8	4	2 • 5 7	6	1	2 7 8	
2	5 7 8	6	5	5	5	5	3	4 5 7 9	7 8 9
1	4	2 5 7 8	5 7 8 9	3	6	2 5 8 9	2 5 7 9	2 7 8 9	

- Focus on one **box**, as shown above.
- If there is a unique number in any cell within the **box**, then select the number.
 - Small "4" in green circle in box 9
- Eliminate the number within the **row** to which the number belongs, and within the **column** to which the number belongs.
 - Small "4" in red Xs
- Repeat steps 2 through 3 in all **nine boxes**.

Use the Double Technique -> Eliminate!

	1 6	1 6	3	1 2 6	4	2 9	6	5
7 8	7 8 9	7 8 9		7 8		7	3	3
3	1 3 5 6	4	1 5 6	1 2 5 6	1 2 5	2 9	8	7
7	7 9		7	7	7			7
3	2	5 6	5 6	9	5	1	3 6	4
7 8	7 8	7 8	7 8	7 8	7	7		
4	1 5	1 2 5 6	1 5 6	1 5 6	8	2 5	2 3 5	1 2 3 9
7 9	7 9	7 9	7 9	7		9	9	9
2	1 5 6	3	4	1 5 6	1 5	7	2 5	1 2 9 8 9
8	8 9			9				
5	1 5	1 5	2	1 5	3	4 5 8 9	5	6
7 8	7 8 9	7 8 9		7			9	
9	3 5	2 5	5	4 5	2 5	6	1	2 7 8
7 8	7 8	7 8	7 8	7	7			
2	6	2 5	1 5	1 2 5	1 2 5	3	4	2 7 8 9
7 8	7 8	7 8	7 8 9	7 8	7 9			
1	4	2 5	5	3	6	2 5	2 5	2 7 8 9
		7 8	7 8 9			8 9	7 9	7 8 9

1. Focus on one **row**, on one **column**, or on one **box**, as shown above.
 2. Within the **row**, within the **column**, or within the **box**, identify two cells, each containing two identical numbers only.
 - Small "2" and "9" in blue circles
 3. Eliminate any of the two numbers in other cells within the **row**, within the **column**, or within the **box**.
 - Small "2" and "9" in red Xs
 4. Select a single number each in the cells, if possible.
 - None
- The Double Technique may not be required for less difficult puzzles.

Use the Triple Technique -> Eliminate!

	1 6 7 8	1 6 7 8 9	3	1 2 6 7 8	4	• 2 2 9 7 9	2 6 9	5
	3 5 6 7	1 3 5 7 9	4	1 5 6 7	1 2 5 6 7	1 2 5 7	• 2 8 9	• 2 3 7 9
	3 5 6 7 8	2 5 6 7 8	• 5 6 7 8	• 5 6 7 8	9 5 7	• 5 7	3 6 7	4
4	1 5 7 9	1 2 5 6 7 9	1 5 6 7 9	1 • 5 6 7	8	• 2 5 9	2 3 5 9	1 2 3 9
2	1 5 6 8	5 8 9	3	4	1 5 6 9	1 5 9	7	2 5 9 8 9
5	1 5 7 8	1 5 7 8 9	5 2	1 • 5 7	3	• 4 5 • 9	• 5 9	6
9	3 5 7 8	2 5 7 8	5 7 8	4	2 • 5 7	6	1	2 7 • 2 7 • 9 2 7 • 9
2	5 7 8	6	2 5 7 8	1 5 7 8 9	1 2 5 7 8	1 2 5 7 9	3	4 7 • 9 2 7 • 9
1	4	2 5 7 •	5 7 • 9	3	6	8	5 7 • 9	7 • 9

- Focus on one **row**, on one **column**, or on one **box**, as shown above.
- Within the **row**, within the **column**, or within the **box**, identify three cells, each containing two or three identical numbers only.
 - Small "2", "7" and "9" in blue circles
- Eliminate any of the three numbers in other cells within the **row**, within the **column**, or within the **box**.
 - Small "2", "7" and "9" in red Xs
- Select a single number each in the cells, if possible.
 - Small "5" in green circles
- The Triple Technique may not be required for less difficult puzzles.

Use the Extend Technique -> Eliminate!

	1 6 7 8	1 6 7 8 9	3	1 2 6 7 8	4	• 2 2 9 7 9	2 6 9	5
	3 5 6 7	1 3 5 7 9	4	1 5 6 7	1 2 5 6 7	1 2 5 9	• 2 8 7 9	• 2 3
	3 5 6 7 8	2	• 5 6 7 8	• 5 6 7 8	9	• 5 7	3 6 7	4
4	1 5 7 9	1 2 5 6 7 9	1 5 6 7 9	1 • 5 6 7	8	• 2 5 9	2 3 5 9	1 2 3
2	1 5 6 8	5 8 9	3	4	1 5 6 9	1 5 9	7	2 5 9 8 9
	1 5 7 8	5 7 8 9	1 5 7 8 9	2	1 • 5 7	3	• 4 5 8 9	• 5 9
9	3 5 7 8	2 5 7 8	5 7 8	4	2 • 5 7	6	1	2 7 8
2	5 7 8	6	2 5 7 8	1 5 7 8 9	1 2 5 7 8	1 2 5 7 9	3	4 7 8 9
1	4	2 7 8	• 7 8 9	• 7 8 9	3	6	2 5 8 9	2 5 7 9 7 8 9

- Focus on one **box**, as shown above.
- Within the **box**, identify one number in only one **row** or in only one **column**.
 - Small "5" in blue circles
- Eliminate the number outside the **box** in other cells within the **row** or within the **column**.
 - Small "5" in red Xs
- The Extend Technique may not be required for less difficult puzzles.

Use the Corner Technique -> Eliminate!

6 7 8	1 7 8 9	1 7 8 9	3	1 2 7 8	4 6	• 2 9	2 7	6 9	5
3 5 6 7	1 3 5	4 7 9	1 5 6 7	1 2 5 6 7	1 2 5	• 2 9	8	• 2 3 7 9	
3 5 6 7 8	2 7 8	• 5 6 7 8	• 5 6 7 8	9 5 7	• 5	1	3 6 7	4	
4	1 5 7 9	1 2 5 6 7 9	1 5 6 7 9	1 • 5 6 7	8	• 2 5 9	2 3 5 9	1 9	
2 5 6 8	1 5 8 9	3 7 8	4 7 8	1 5 6 9	1 5	7 9	2 1 5 9	1 8	
5 7 8	1 5 7 8 9	1 5 7 8 9	2 7	1 • 5	3	• 4 5 • 9	• 5 9	6	
9	3 5 7 8	2 5 7 8	5 7 8	4 5 7	2 • 5	6	1 7 •	2	
2 5 7 8	6 7 8	2 5 7 8	1 5 7 8 9	1 2 5 7 8	1 2 5 7 9	3	4 7 • 9	2	
1	4 5 7 •	2 5 7 •	5 7 • 9	3	6	8	2 5 7 9	2 7 • 9	

- Focus on one set of **three rows** or on one set of **three columns**, as shown above.
- Within the set of **three rows** or within the set of **three columns**, identify two numbers each in two **boxes**.
 - Large "1" and "8" in blue circles
- Inside a corner with two cells within the other **box**, eliminate the numbers other than the two numbers.
 - Small "2", "3" and "9" in red Xs
- Select a single number each in the two cells, if possible.
 - Small "1" and "8" in green circles
- The Corner Technique may not be required for less difficult puzzles.

Use the Block Technique -> Eliminate!

	1 6	1 6	3	1 2 6	4	• 2 9	2 6	5
7 8	7 8 9	7 8 9		7 8			7 9	
3 5 6	1 3 5	4	1 5 6	1 2 5 6	1 2 5	• 2 9	8	• 2 3 7 9
7	7 9		7	7	7			
3 5 6	2	• 5 6	• 5 6	9	• 5	1	3 6	4
7 8	7 8	7 8	7 8	7 8	7	7	7	
4	1 5	1 2 5 6	1 5 6	1 • 5 6	8	• 2 5	2 3 9	1 2 3 9
7 9	7 9	7 9	7 9	7		9	9	
2 5 6	1 5	3	4	1 5 6	1 5	7	2 9	1 2 8 9
8	8 9			9	9		9	
5 7 8	5 7 8 9	5 7 8 9	2	1 • 5	3	• 4 5	• 9	6
7	7	7	7	7	7	9	9	
9	3 5	2 5	5	4	2 • 5	6	1	2 7 •
7 8	7 8	7 8	7 8	7	7			
2 5	6	2 5	1 5	1 2 5	1 2 5	3	4	2 7 • 9
7 8	7 8	7 8	7 8 9	7 8	7 9			
1	4	2 5	5	3	6	8	2 5	2 7 • 9
		7 •	7 • 9				7 9	

- Focus on one set of **three rows** or on one set of **three columns**, as shown above.
 - Within the set of **three rows** or within the set of **three columns**, identify three numbers placed consecutively.
 - Large "6", "3" and "8" in blue circles
 - Identify a number outside the **box** which contains the three numbers.
 - Large "5" in green circles
 - Recognise a **row** or a **column** in which the number is prohibited, and eliminate the number.
 - Small "5" in red Xs
 - Select the number in non-prohibited zones.
 - Small "5" in green circles
- The Block Technique may not be required for less difficult puzzles.

Complete the Puzzle

8	1	9	3	7	4	2	6	5
5	7	4	6	2	1	9	8	3
3	2	6	8	9	5	1	7	4
4	9	2	7	6	8	5	3	1
6	5	3	4	1	9	7	2	8
7	8	1	2	5	3	4	9	6
9	3	8	5	4	2	6	1	7
2	6	5	1	8	7	3	4	9
1	4	7	9	3	6	8	5	2

- Repeating these processes leads to the solution of the 5-star (very difficult) **Sudoku** puzzle.
- Once you start identifying single and unique numbers, you will see a domino effect to give you an orgasmic experience!

Appendix: MagneScribe™ Pen

<h3>MagneScribe™ Pen</h3> <p>Wow, What a Pen! </p> <ul style="list-style-type: none">• A 3-in-1 Auto-Retractable Ballpoint Pen with an Ergonomic Cushion that Leonardo da Vinci would have loved to wear! <p>Ultimate Simplicity </p> <ul style="list-style-type: none">• No cap! No twist! No push!• 1-finger operation• Click on one side• Mirror on the other• Patents granted <p>The original iPod mini's 5-colour scheme</p> <ul style="list-style-type: none">• SILVER• GOLD• BLUE• PINK• GREEN  <p>iPod® is a registered trade-mark of Apple Computer, Inc.</p>	<h1>New!</h1>  <p>Wow!</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------

- This pen with a very fine tip is ideal for playing **Sudoku** puzzles!
 - **MagneScribe™ Pen**
<<http://MagneScribe/>>