

## 1 \sudoku

```
\sudoku[text={
.....1 .....2.3.
....1...4 ..3.5.... .26....7.
14...8... 5..... 7....6.2.
}]
```

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

```
\sudoku[text={
000000001 000002030 004056000
000004500 010700000 080000400
000030000 000100008 205000000
}]
```

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

```
\sudoku[text={
000000000 111111111 222222222
333333333 444444444 555555555
}]
```

```
666666666 777777777 888888888
}]
```

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

```
\sudoku[text=666]
```

ERROR: Sudoku grid has 3 instead of 81 cells

```
2 \startsudoku ... \stopsudoku
```

```
\startsudoku
```

```
0 0 2 0 0 4 0 0 0
0 0 8 6 0 0 0 0 0
0 9 0 0 0 0 0 3 0
8 0 0 0 6 2 0 0 0
1 4 0 0 3 0 5 0 9
0 7 0 0 0 0 0 0 0
0 3 5 0 0 8 6 0 7
0 0 0 0 0 0 0 4 2
0 0 0 9 0 1 0 0 3
```

```
\stopsudoku
```

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

### 3 \solvesudoku

```
\solvesudoku
[size=9mm,
  evenbackgroundcolor=gray,
  oddbackgroundcolor=white,
  text={
.....1 .....2.3.
....1...4. .3.5.... .26....7.
14...8...5 ..... 7....6.2.
}]
```

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

```
\solvedsudoku[text={
000000001 000002030 004056000
000004500 010700000 080000400
000030000 000100008 205000000
}]
```

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

```
\solvesudoku[text={
000000000 111111111 222222222
333333333 444444444 555555555
666666666 777777777 888888888
}]
```

ERROR: No solution has been found for this sudoku

4 \startsudoku ... \stopsudoku

```
\startssolvesudoku[evenbackground=lemonchiffon]
7 0 0 0 0 4 0 0 1
0 2 0 0 6 0 0 8 0
0 0 1 5 0 0 2 0 0
8 0 0 0 9 0 7 0 0
0 5 0 3 0 7 0 2 0
0 0 6 0 5 0 0 0 8
0 0 8 0 0 9 1 0 0
0 9 0 0 1 0 0 6 0
5 0 0 8 0 0 0 0 3
\stopssolvesudoku
```

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

## 5 \sudokubuffer

```
\startbuffer[lmao]
.....1 .....2.3.
....1...4. .3.5.... .26....7.
14...8...5 ..... 7....6.2.
\stopbuffer
```

```
\sudokubuffer[buffer=lmao]
```

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

## 6 \sudokusolvebuffer

```
\solvesudokubuffer[buffer=lmao]
```

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

## 7 \sudokufile

```
\sudokufile
  [evenbackground=cornsilk,
    oddbackground=pink,
    file=t-sudoku-test-01.txt]
```

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

```
\sudokufile[file=t-sudoku-test-03.txt]
```

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

```
\sudokufile
  [evenbackground=cornsilk,
    rulethickness=2pt,
    file=t-sudoku-test-02.txt]
```

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

## 8 \solvesudokufile

```
\setupsudoku[oddbackground=plum,evenbackground=pink]
\solvesudokufile
  [oddbackground=thistle,
    file=t-sudoku-test-01.txt]
```

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

\solvesudokufile[file=t-sudoku-test-02.txt]

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

\solvesudokufile[file=t-sudoku-test-03.txt]

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



9 \randomsudoku

\randomsudoku[n=45]

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