

CHICAGO 7x7 Challenge

A double Sudoku/Slide puzzle designed by Kate Jones
for Chicago Tribune/N. Mich. Ave. Art Festival – July 2011

C	H	I	C	A	G	O
C	H	I	C	A	G	O
C	H	I	C	A	G	O
C	H	I	C	A	G	O
C	H	I	C	A	G	O
C	H	I	C	A	G	O
C	H	I	C	A	G	O

1. Cut out the 49 letters above and place them on the 49 spaces of the grid. Arrange them to meet all these goals at the same time:
 - ◆ Each of 16 rows—7 horizontal, 7 vertical, and 2 diagonal (corner to corner)—contains all seven letters of CHICAGO, in any order. Further, all horizontal and vertical rows and one long diagonal have all 7 *colors* (no two of the same color in any row).
 - ◆ Have no two letters of the same color touch sides. Corner contact is OK.
 - ◆ **Harder:** All 36 rows (horizontal, vertical and diagonal) contain different letters (2 C's OK); 25 rows have no two of the same color. There are 22 diagonals!
 - ◆ Send us your solution and win a prize.

2. After you've found a solution to Challenge 1:

- ◆ Remove any one C from your solution and set it aside. Now slide the letters on the grid one by one into a neighboring empty space (no diagonal moves) until you've rearranged them so that all horizontal rows spell CHICAGO in the correct order, and each row has a single color, leaving one space in the right spot to replace the letter you removed.
- ◆ Find a sliding solution from any scrambled position of the 49 letters on the grid; remove any one C at the start and replace it at the end.

