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You Like Japan

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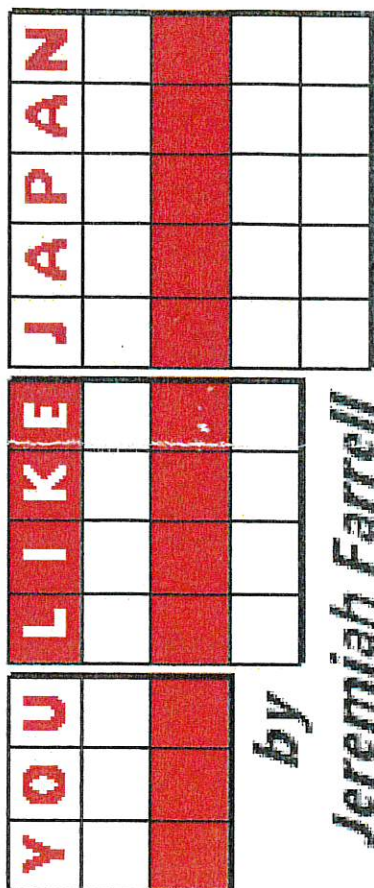
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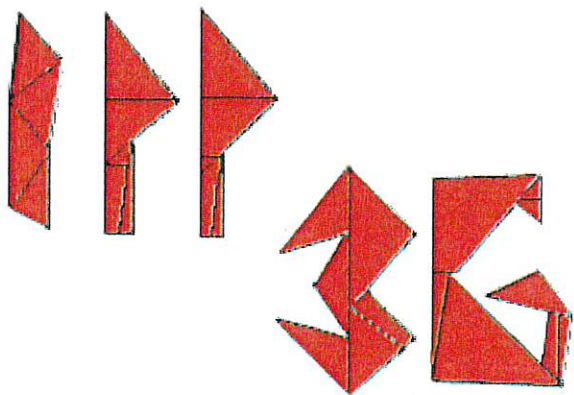
YOU LIKE JAPAN

Puzzle CHALLENGES

Archimedes Revisited: With no overlaps or voids, arrange all 14 pieces into the following shapes:

1. Four squares.
2. Three squares.
3. Two squares.
4. One square.

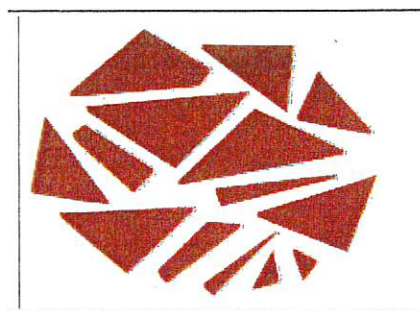
Hints: You can form a 5x5 square, or a 3x3 square plus a 4x4 square.



YOU LIKE JAPAN

Exchange puzzle for
International Puzzle Party 36
Kyoto, Japan
August 2016

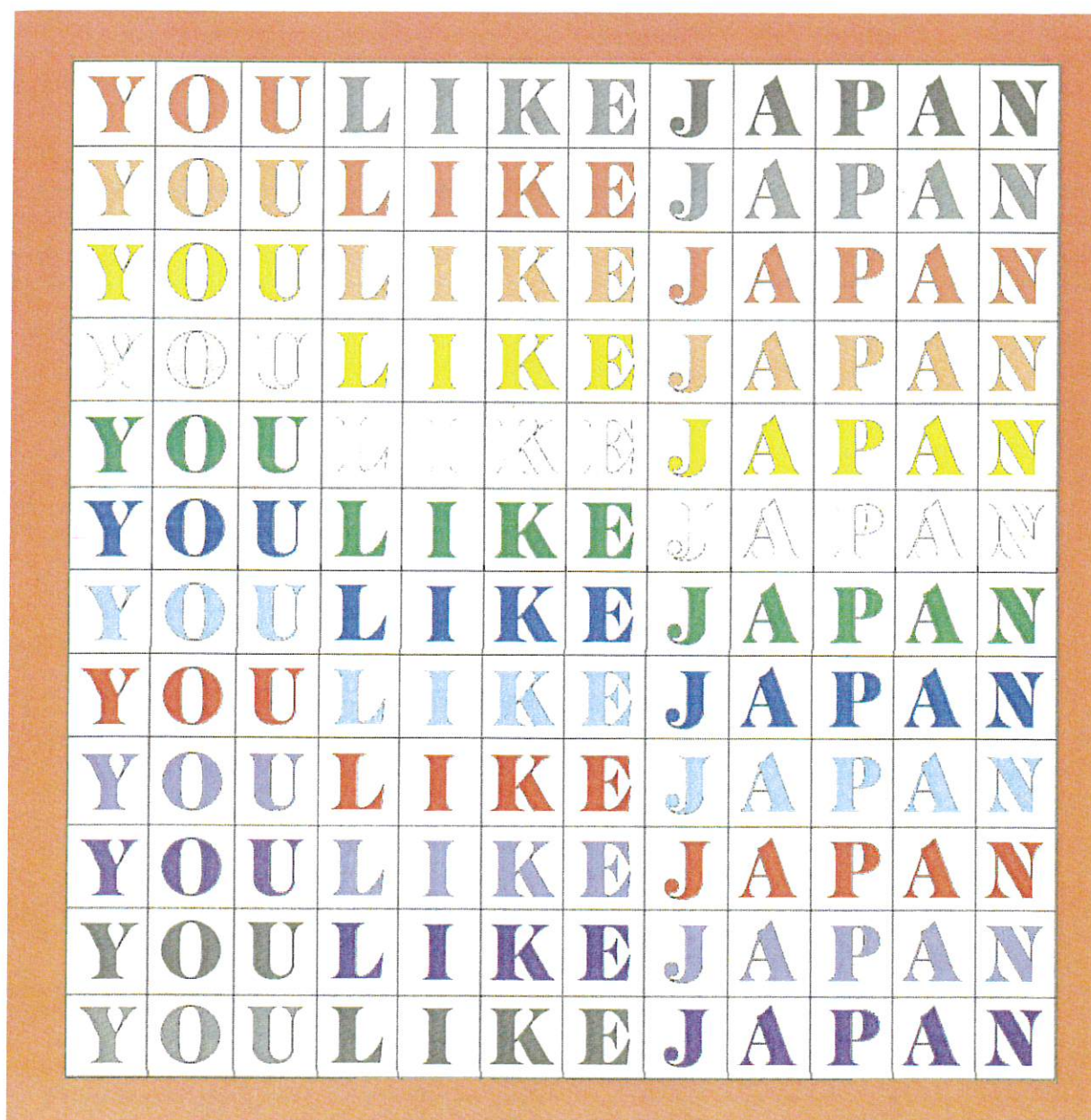
The solver may be reminded of the Archimedes Square, whose 14 tiles could form many shapes, including the elephant shown below. What other fanciful shapes can you build with the YOU LIKE JAPAN set? For example, the styled IPP and 36 included here.



The YOU LIKE JAPAN Puzzle
is crafted in lasercut acrylic
by Kadon Enterprises, Inc.
www.gamepuzzles.com

"YOU LIKE JAPAN" 12x12 Challenge

A double Sudoku/Slide souvenir puzzle designed by Kate Jones
expressly for Jeremiah Farrell's IPP36 exchange puzzle,
Kyoto, Japan – August 2016

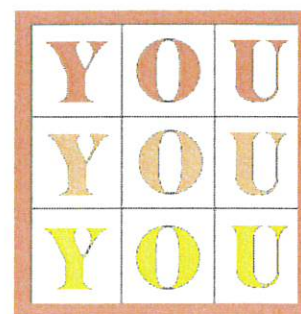


For best results, print out this page on heavy paper
or glue it on card material before cutting out the letters.

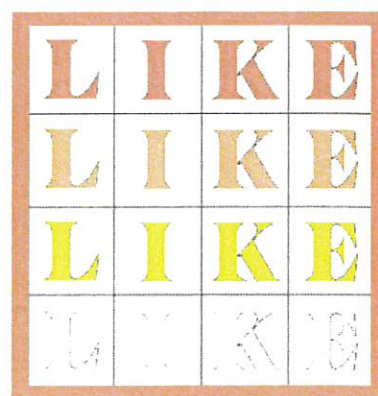
Happy puzzling!

How to use this puzzle:

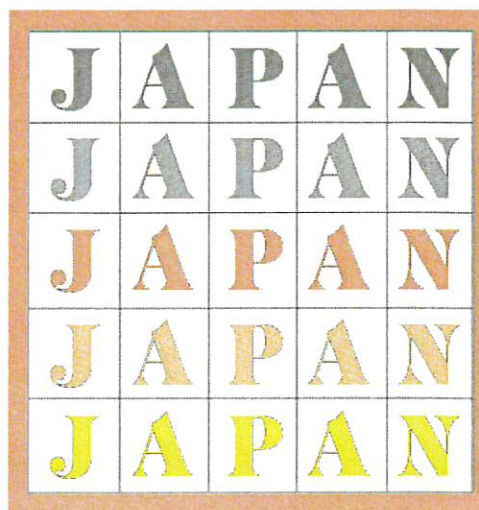
Three mini-puzzles: Solve the 3x3, 4x4 and 5x5 squares so no two of the same letter nor same color are in the same row, horizontally and vertically (except for the letter A).



- For extra challenge in the **4x4** (LIKE), have no two letters of the same color touch sides. Corner contact is OK. Additionally, have seven 2x2 areas contain all 4 colors (areas may overlap); seven 2x2 areas contain all four letters; and five 2x2's contain all four letters in all 4 colors. Have no two of the same letter nor same color in any diagonal row.



- For extra challenge in the **5x5** (JAPAN), have no two of the same letter nor the same color in any of 25 rows, in any direction: horizontal, vertical or diagonal (except for the letter A). There are 14 diagonals!



Goals for the full 12x12 puzzle:

1. Cut out the 144 letters above and rearrange them on the 12x12 grid so that one or more of these goals are met at the same time:

- ◆ Each of 24 rows—12 horizontal, 12 vertical—contains all 12 letters of YOU LIKE JAPAN, in any order.
- ◆ All horizontal and vertical rows contain all different *colors* (no two of the same color in any row).
- ◆ Have a maximum of *diagonal* rows with no two of the same *color*.
- ◆ Have no two of the same letter adjacent *diagonally* (except A).
- ◆ Have a maximum of *diagonal* rows with no two of the same *letter* (except A). There are 42 diagonal rows on the grid. How many rows are possible with no duplicate letter (except A)?
- ◆ How many of these goals can you meet simultaneously?

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

- ◆ Remove any one A 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 YOU LIKE JAPAN 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 144 letters on the grid; remove any one A at the start and replace it at the end.
- ◆ Do the same for the 4x4 and 5x5 squares.

Kate Jones

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