Why SET is (almost) like (wraparound) 4-D Tic-Tac-Toe by Galen Wilkerson

SET cards have 4 attributes: shape, number, color, shading.

number

- Let's start with 2 card attributes: shape & number. (ignore the other attributes - color and shading)

shape oval pnut diamond

X -

X-

- Put an X in the box representing a card's shape and number attributes.

For example, if we have a card with one diamond,

put an X here.

A second card has 2 peanut symbols.

-Another card has 3 ovals

- Look! We have a SET (for 2 attributes), since for each of the two attributes, all of the cards are either the same or different.

(In this case, they are all different.)

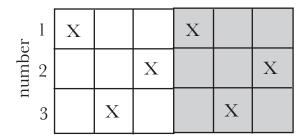
Is this a SET?

shape oval pnut diamond

1 X X X X X

How about this one?

Imagine a board that
"wraps around", repeating
beyond the edges... now the Xs form
a diagonal line, just like the first example.



number

Now let's add another attribute: color.

But wait, there's nowhere to show it on our 2-dimensional tic-tac-toe board. If we add a 3rd dimension, we have a way to show which color a card has.

