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shape_to_data
function data_array = shape_to_data(X,Y,Z)

%takes in a shape defined by three equally sized, seperate vectors, and returns an
array of those data points as consolidated 3-space vectors

[num_rows num_columns] = size(X);
cnt = 1;

for i = 1 : num_rows

    for j = 1 : num_columns

        temp_vector(1) = X(i,j);
        temp_vector(2) = Y(i,j);
        temp_vector(3) = Z(i,j);

        if(sum(isnan(temp_vector(:))) == 0)

            data_array{cnt} = temp_vector;
            cnt = cnt + 1;

        endif

    endfor

endfor

endfunction

```