

Rasterization: Polygon

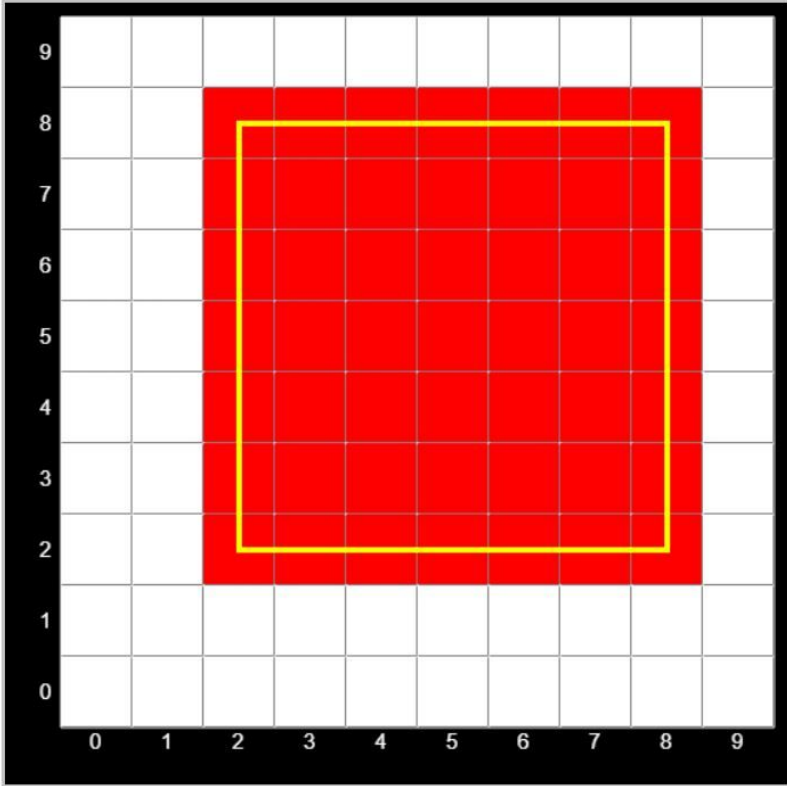
Experiment Test Cases Documentation

Introduction

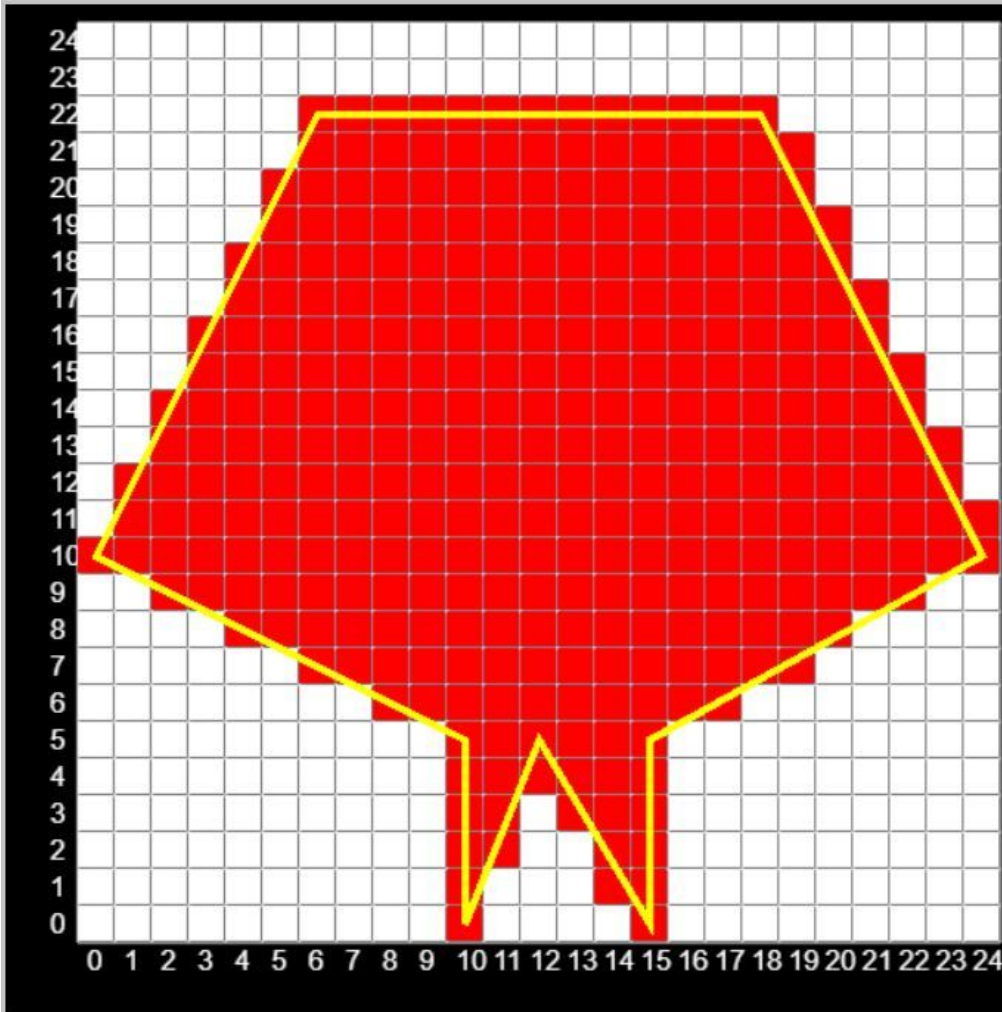
This document captures the test cases of the experiment.

Functional Test Cases:

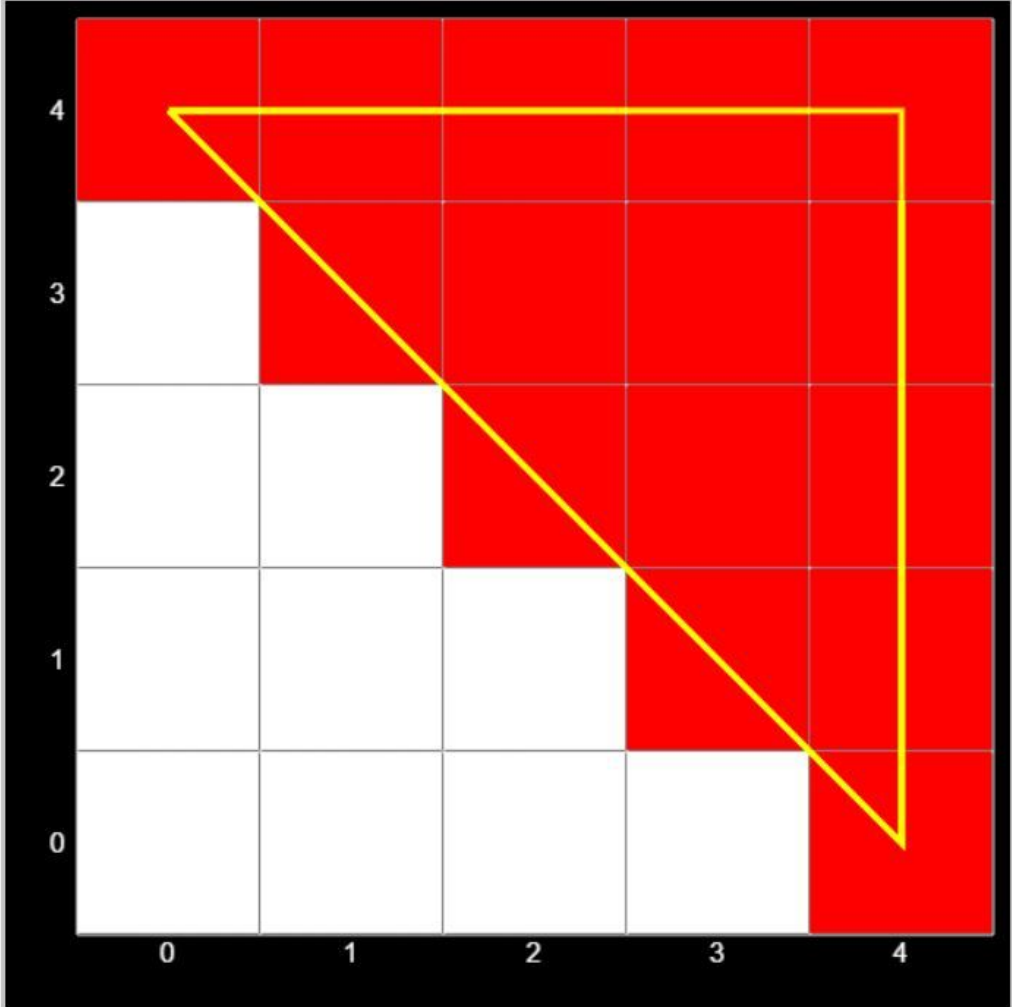
Test Case 1

Inputs	Width:10 Height:10 Polygon Sides: 4 Polygon Coordinates: 2 2,2 8,8 8,8 2,
Steps	To go further Clicking On Next Iteration To go back Clicking On Previous Iteration
Output	 A 10x10 grid with a black border. The grid has x and y axes labeled from 0 to 9. A red square is filled, with its bottom-left corner at (2,2) and its top-right corner at (8,8). A yellow square outline is drawn inside the red square, with its bottom-left corner at (2,2) and its top-right corner at (8,8).
Result	Pass
Comments	None

Test Case 2

Inputs	Width:25 Height:25 Polygon Sides: 9 Polygon Coordinates: 10 0,10 5,0 10,6 22,18 22,24 10,15 5,15 0,12 5,
Steps	To go further Clicking On Next Iteration To go back Clicking On Previous Iteration
Output	
Result	Pass
Comments	None

Test Case 3

Inputs	Width:5 Height:5 Polygon Sides: 3 Polygon Coordinates: 0 4,4 0,4 4,
Steps	To go further Clicking On Next Iteration To go back Clicking On Previous Iteration
Output	 <p>The output is a 5x5 grid with a black border. The grid is divided into two regions: a yellow triangle and a red region. The yellow triangle has vertices at (0,4), (4,4), and (4,0). The red region covers the rest of the grid. The grid is labeled with coordinates (0,0) to (4,4) on the left and bottom axes.</p>
Result	Pass
Comments	None

Test Case 4

Inputs	Width:27 Height:50 Polygon Sides: 31 Polygon Coordinates: 0 4,4 0,4 4,
Steps	To go further Clicking On Next Iteration To go back Clicking On Previous Iteration
Output	Gives Error For Width greater than max Gives Error For Height greater than max Gives Error For Polygon Sides Greater than Max
Result	Pass
Comments	None

Test Case 5

Inputs	Width:18 Height:18 Polygon Sides: 6 Polygon Coordinates: 75 3341,gssef,
Steps	To go further Clicking On Next Iteration To go back Clicking On Previous Iteration
Output	Gives Error for Polygon Coordinates Not entered properly
Result	Pass
Comments	None

Cross Browser Testing

Tested the experiment simulation on different browsers to make sure the simulation works on all browsers.

S.NO	Browser	Version	Works(Yes/No)
1.	Google Chrome	75.0.3770.100	Yes
2.	Firefox	45.7.0	Yes
3.	Microsoft Edge	42.17134.1.0	Yes