

# Split

## Rules

- One player draws the first line, the other player chooses which color to play as (this prevents the first player from having an advantage).
- A turn consists of drawing a line segment between two existing lines. The line may not cross any other lines, and the endpoints of the line may not be on an intersection.
- If both endpoints of the drawn line are on lines of your color, your opponent chooses which area you get to fill. You receive points equal to the geometric area of that area.
- You can alternatively use your turn to fill any area which is worth 5 points or less (by drawing a line in that area, you will automatically receive the entire area).
- First player to get more than 50 points wins.

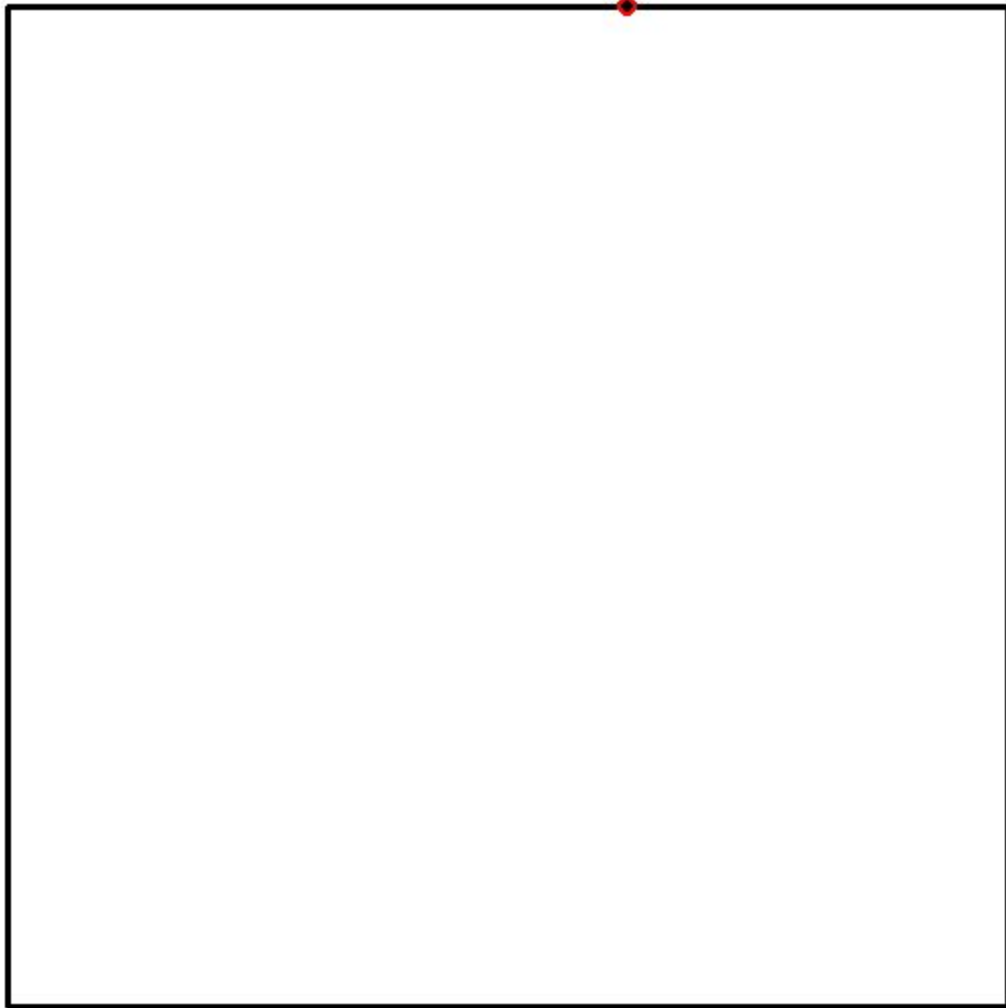
## Example Game

P1 Score: 0

P2 Score: 0

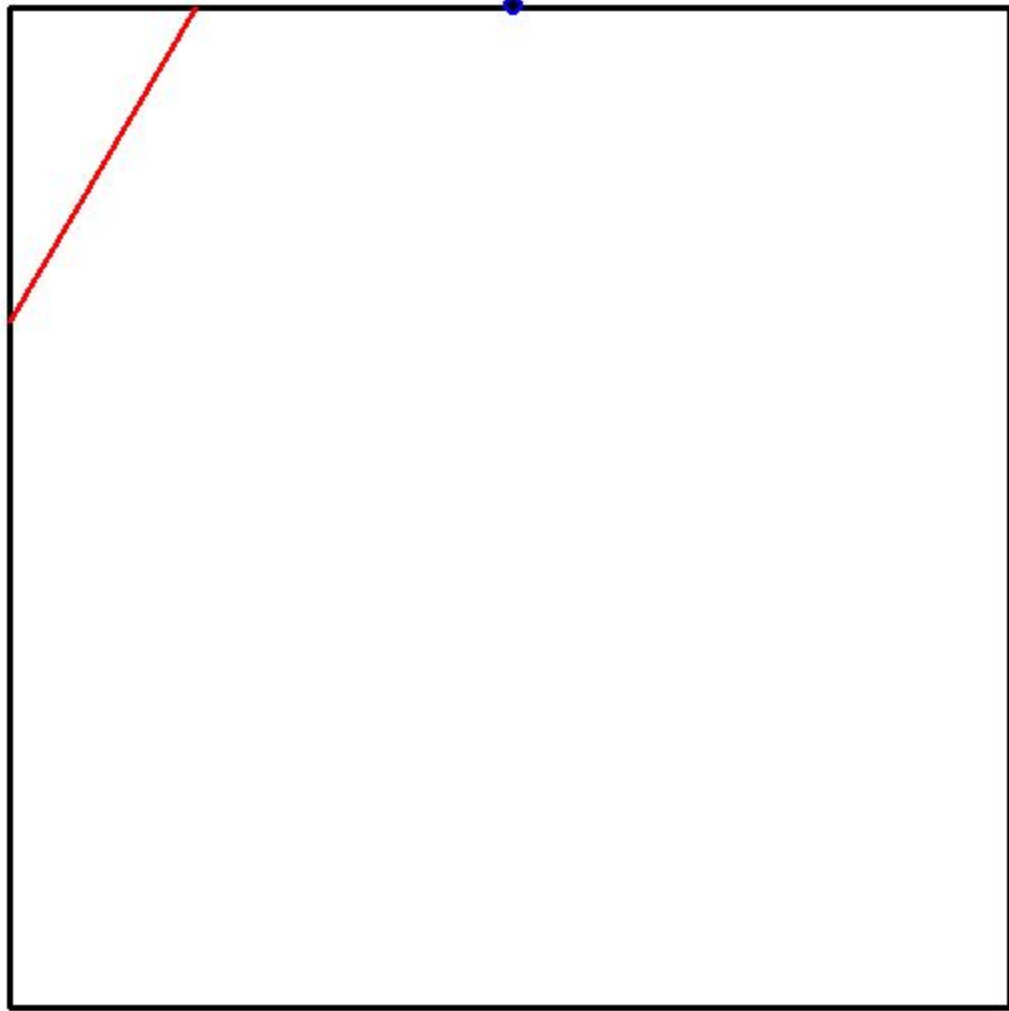
Red Player to Move

Area Hover Score: 100.0



The game starts empty. The area inside the box is worth 100 points (indicated by “Area Hover Score”). Player A will draw the first line, player B will choose which color to play as.

P1 Score: 0  
P2 Score: 0  
Blue Player to Move  
Area Hover Score: 97.07266347552358



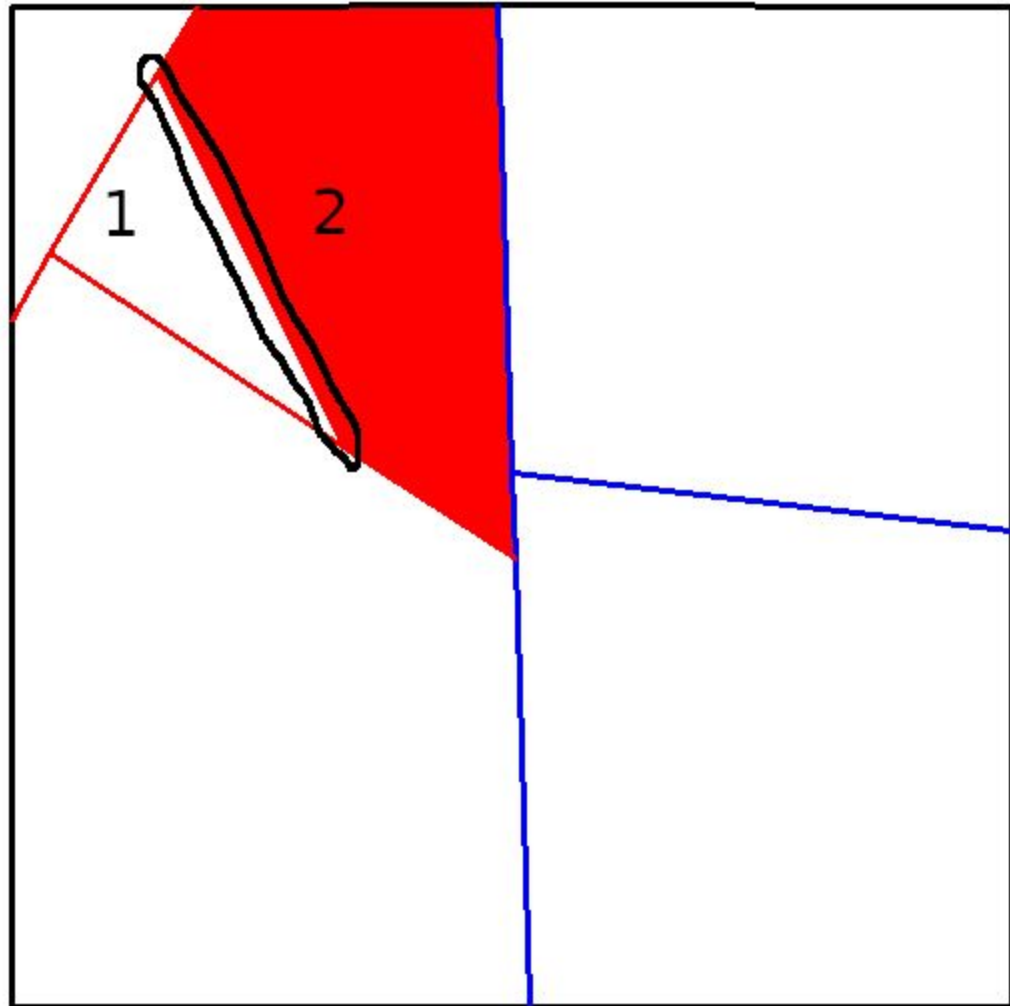
Player A drew the first line, Player B chooses to play as blue (Blue Player). When hovering over an area, "Area Hover Score:" will show how many points that area is worth.

P1 Score: 0

P2 Score: 0

Blue Player to Choose

Area Hover Score: 12.566206518242385



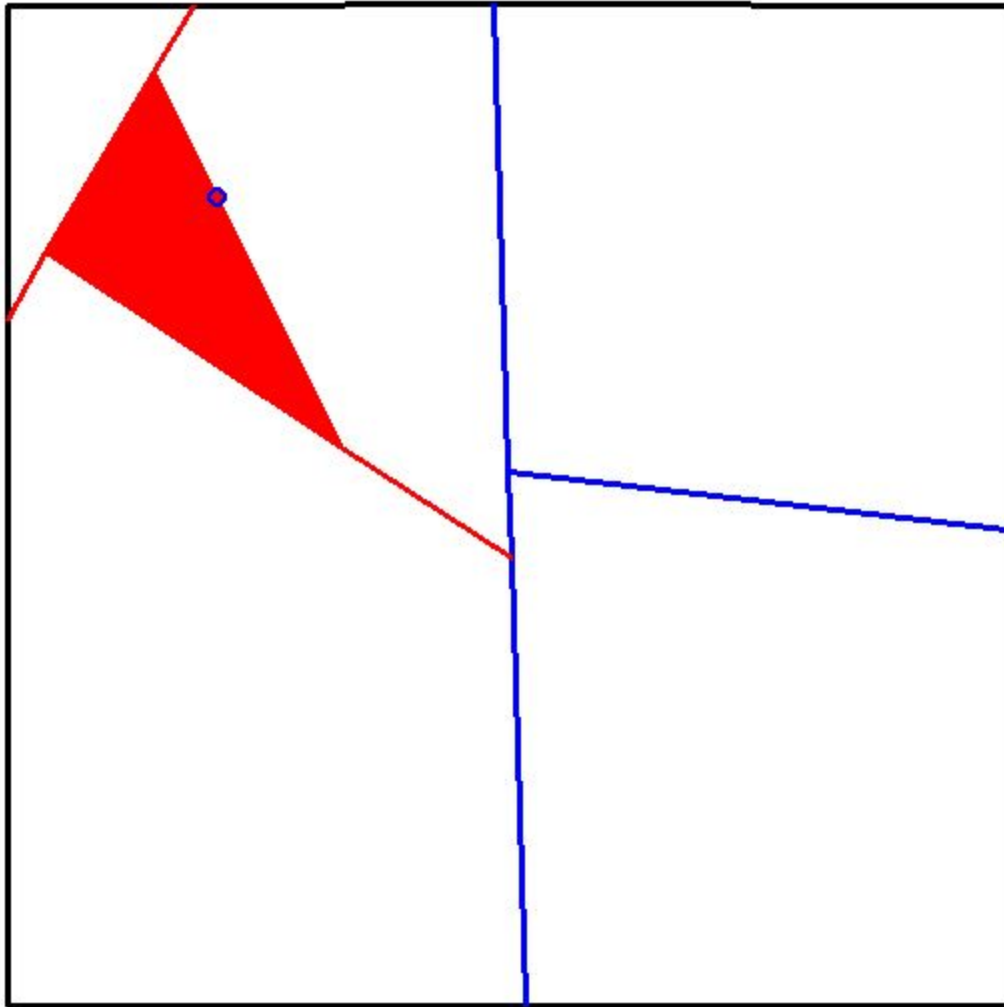
Player A/Red drew the circled red line, connecting two red lines. Player B/Blue will choose which of the two numbered areas red receives. Area 2 is currently highlighted and is worth 12.5 points.

P1 Score: 3.705634615660902

P2 Score: 0

Blue Player to Move

Area Hover Score: 3.705634615660902



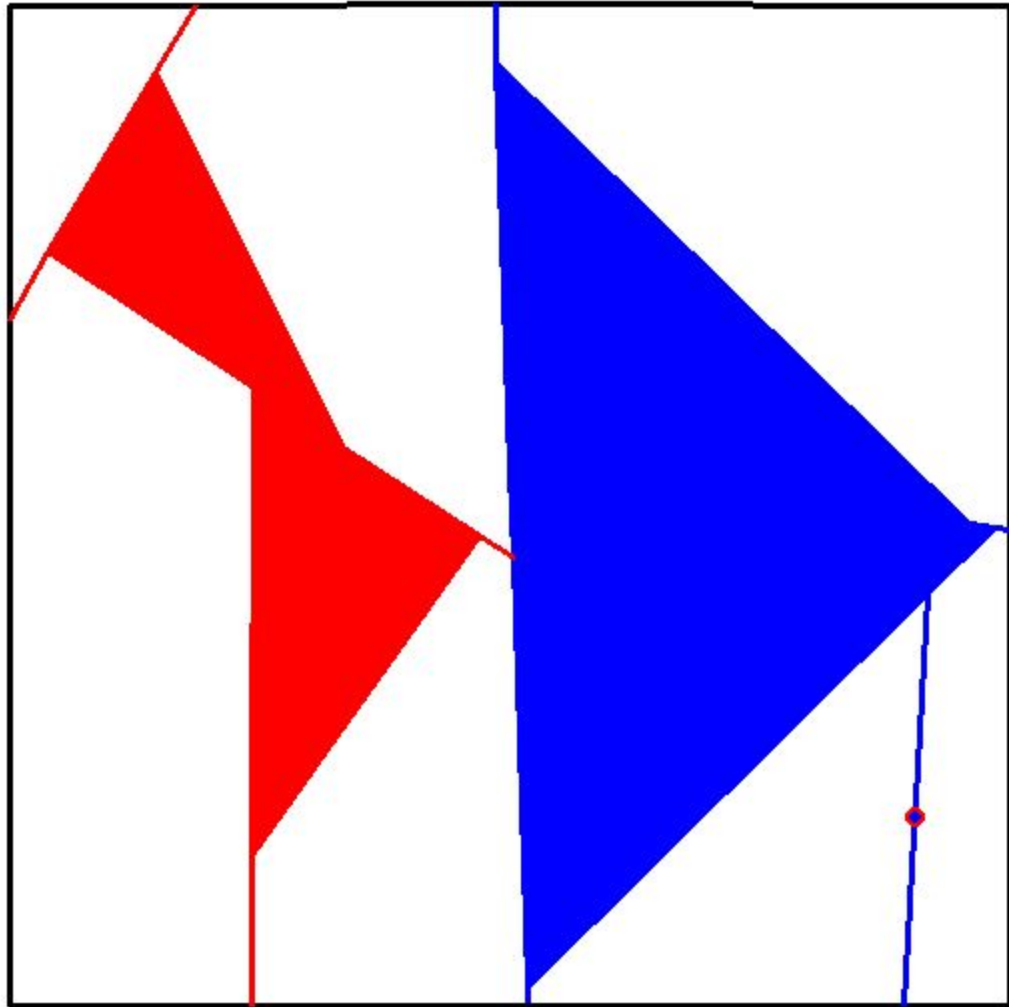
Player B/Blue chose the other area, worth 3.7 points. The game continues and its Player B/Blue's turn to draw a line.

P1 Score: 8.984180093757946

P2 Score: 21.86155353879937

Red Player to Move

Area Hover Score: 4.108182003291233



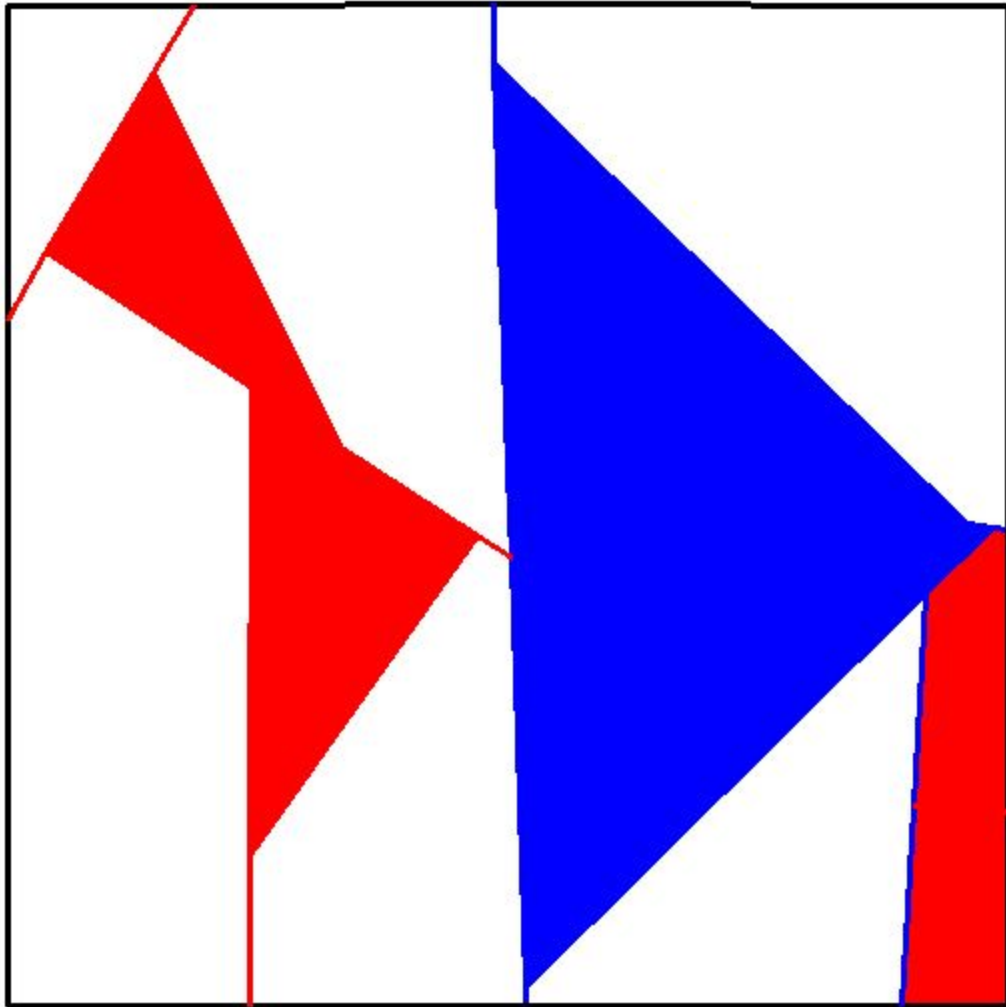
Eventually the areas become smaller. The mouse is hovering on the bottom right area, the area hover score shows that the area is worth 4.1 points. This is less than 5 points so either color can make a move to claim the entire area, regardless of the color of the lines surrounding it.

P1 Score: 13.092372647876974

P2 Score: 21.86155353879937

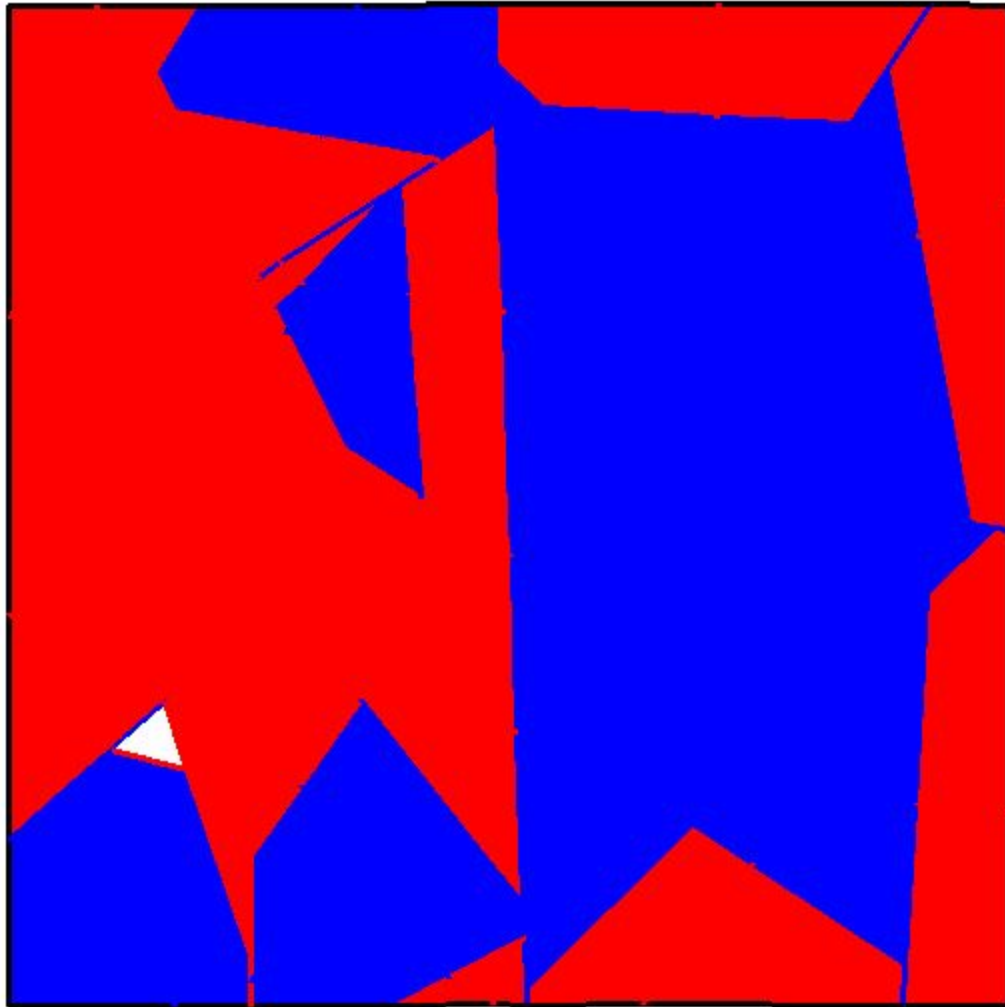
Blue Player to Move

Area Hover Score: 0.0



Player A/Red makes a move inside the bottom right area and automatically gets the entire area since it's worth less than 5 points.

P1 Score: 49.6329466780243  
P2 Score: 50.12877850005637  
Red Player to Move  
Area Hover Score: 0.0



Eventually much of the board is filled. Player B/Blue has 50.1 points. This is more than half of the board so Player B/Blue wins.