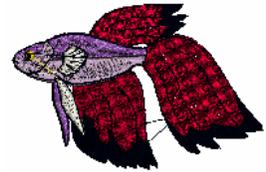
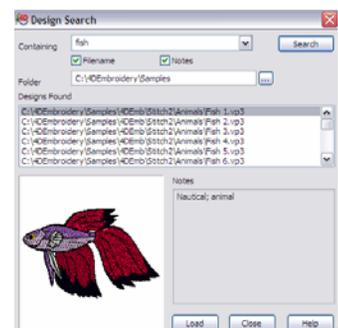
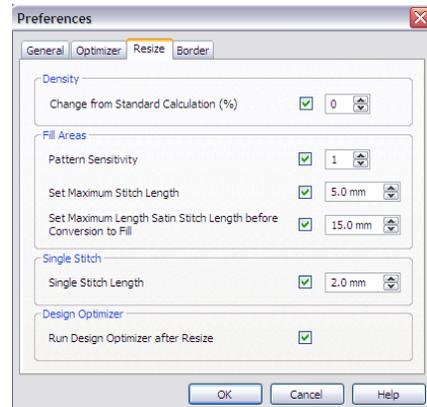


## Intermediate Software – 4D Stitch Editor Resizing – Density Calculation

By:  
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Embroidery Software Education

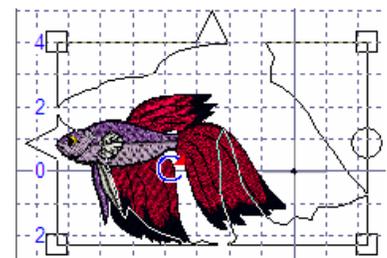


1. Open 4D Embroidery Extra .
2. QuickLink to 4D Stitch Editor .
3. Click Hoop .
4. Set the Hoop Group to My Hoops or Pfaff creative vision.
5. Set the Hoop Size to 240mm x 150mm – creative Master Hoop.
6. Set the Orientation to Vertical then click OK.
7. Click Preferences .
8. On the General tab, set the Grid Size to 10mm.
9. Click the Resize tab. Set the Density at 0, the Fill Areas – Pattern Sensitivity to 1, Set Maximum Stitch Length to 5.0 and Set Maximum Length Satin Stitch Length before Conversion to Fill at 15. Set the Single Stitch Length to 2.0, leave Run Design Optimizer after Resize checked then click OK.
10. Click Find Designs .
11. Type 'fish' in the Containing box.
12. Leave Filename and Notes checked.
13. Browse  to set Folder to C:\4DEmbroidery\Samples then click OK.
14. Click Search.
15. Select C:\4DEmbroidery\Samples\4DEmb\Stitch2\Animals\Fish 1.vp3 then click Load.
16. Click Close to close the Design Search box.
17. Click the drop down arrow next to Grid  and choose Grid Numbered Full .

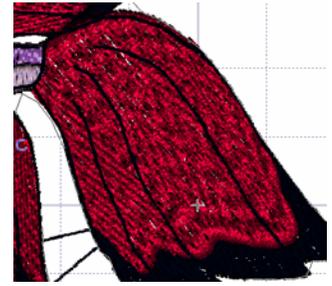


### Resize the Fish

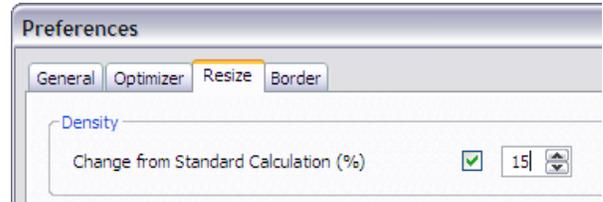
18. Click Make Block from Visible Area .
19. Click and drag the fish to the left side of the hoop keeping it centered.
20. Click Resize .
21. Holding down the CTRL key on your keyboard to keep the fish proportional, click and drag to increase the fish to about the horizontal 4 grid line.



22. Zoom In  on the fish's tail. Notice the stitches are sparse in some areas.
23. Click Undo .
24. Click Zoom to Fit .

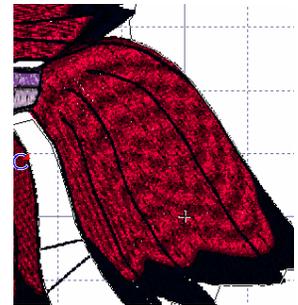


25. Go back to Preferences .
26. Choose the Resize tab and set the Density to 15% then click OK.



27. Click Make Block from Visible Area .
28. Holding down the CTRL key on your keyboard to keep the fish proportional, click and drag to increase the fish to about the horizontal 4 grid line again.
29. Zoom In  on the fish's tail. Notice the stitches are a little better.
30. Click Undo .
31. Click Zoom to Fit .
32. Go back to Preferences .
33. Choose the Resize tab and set the Density to 30% then click OK.

34. Click Make Block from Visible Area .
35. Holding down the CTRL key on your keyboard to keep the fish proportional, click and drag to increase the fish to about the horizontal 4 grid line again.
36. Zoom In  on the fish's tail. Notice the stitches are even more filled in. There might be some places where you are seeing the background color come thru the design. Instead of fixing the stitches, let's change the pattern in the fill stitches.



37. Click Zoom to Fit  then click CTRL + 6 to zoom in on the entire fish.
38. Click outside the fish to de-select it.
39. Click Draw Next Color Block  twice until the red sections of the fish are selected.
40. Go to the PatternMake tab.
41. Click Remove Needle Points in Fill .
42. Staying in the Climate Stamp category, choose the top row, second stamp that looks like a wave.
43. Choose Small Stamp .
44. Set the Angle to 335.



45. Click Stamp Fill . Notice we have solved the missing stitches dilemma by changing the direction of the fill stitches.
46. Go back to the Design tab.
47. Click Draw All Stitches .
48. Click Resize  to turn resize off.
49. Click Save As  and save the design in your C:\4DEmbroidery\MyDesigns folder as fish resized.vp3 then click Save.

