

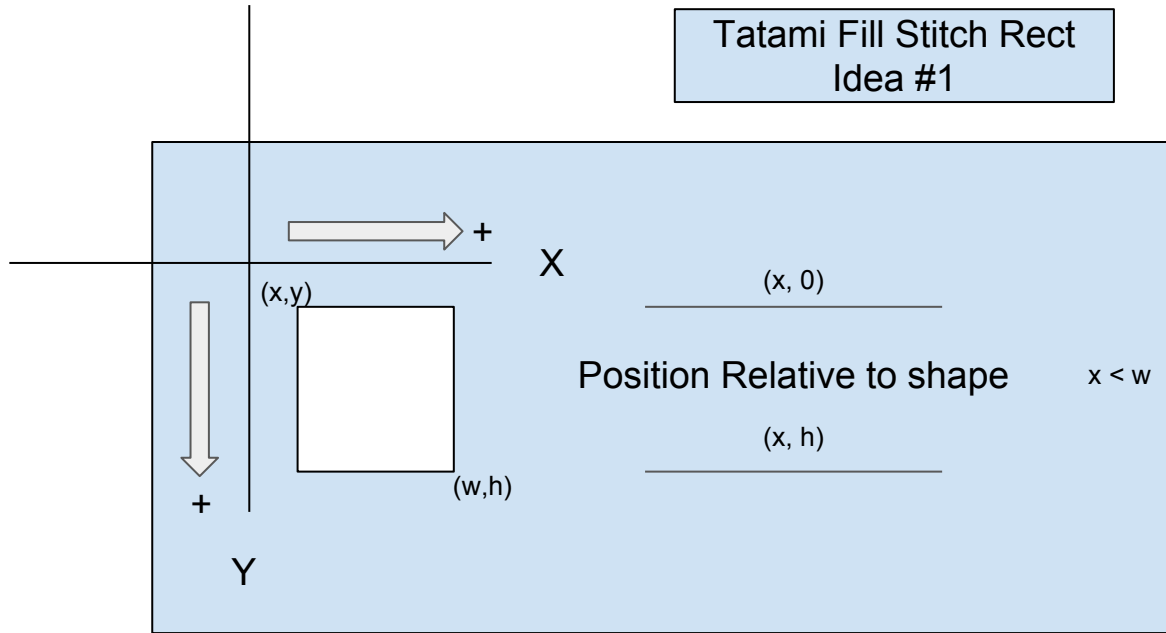
EmbroidIt

Briefing #5

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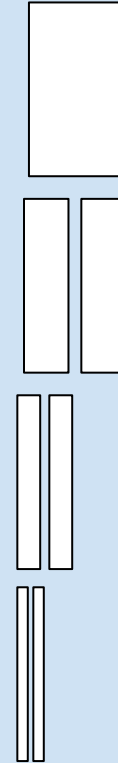
Fill Stitch Design

Tatami Fill Stitch Rect Idea #1

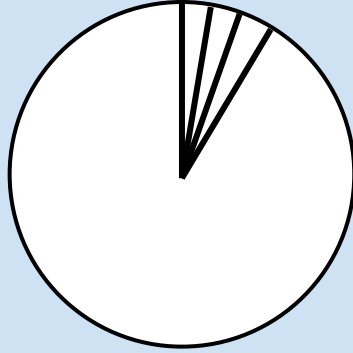


- Divide and Conquer and take midpoint (x1, y1) (x2, y2) of each dx as line stitch points.
- subdivide stitch length also, to conform to the shape size instead of giving user double precision. (snap to /2 values)

Weakness: Only handles angles at 0 or 90 degrees.
(Horizontal/Vertical)

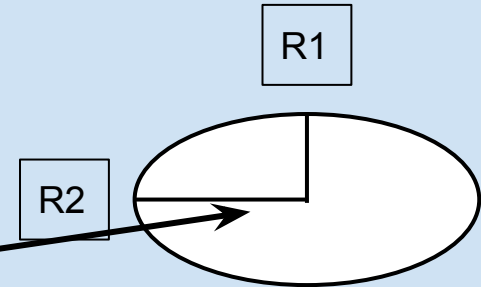


Tatami Fill Stitch circle/ellipse idea #2

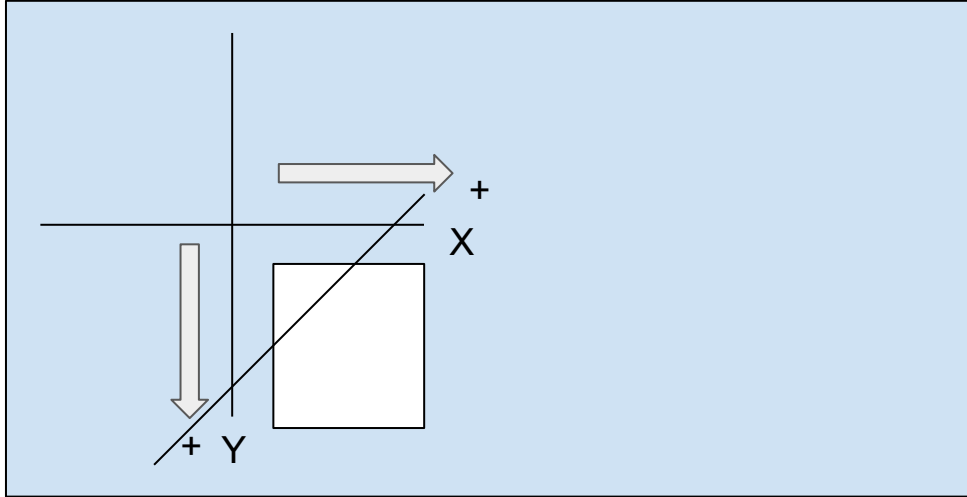


- Line segment at vertical with length R (radius).
- Move outer point of line segment around circumference of ellipse in 1mm increments.
- sub divide line segments to desired fill stitch length.

Weaknesses: Unclear how to calculate changing radius of an ellipse as angle θ increases. ($R1$ vs $R2$)

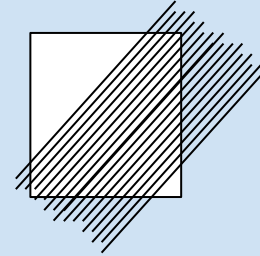


Tatami Fill Stitch Rect/Ellipse Idea #3



- Create line of desired angle.
- Increase x position of line across shape in 1mm increments.
- Each set of intersection points is a stitch line segment within the bounds of the shape.
- Sub divide line segments to achieve desired stitch lengths.

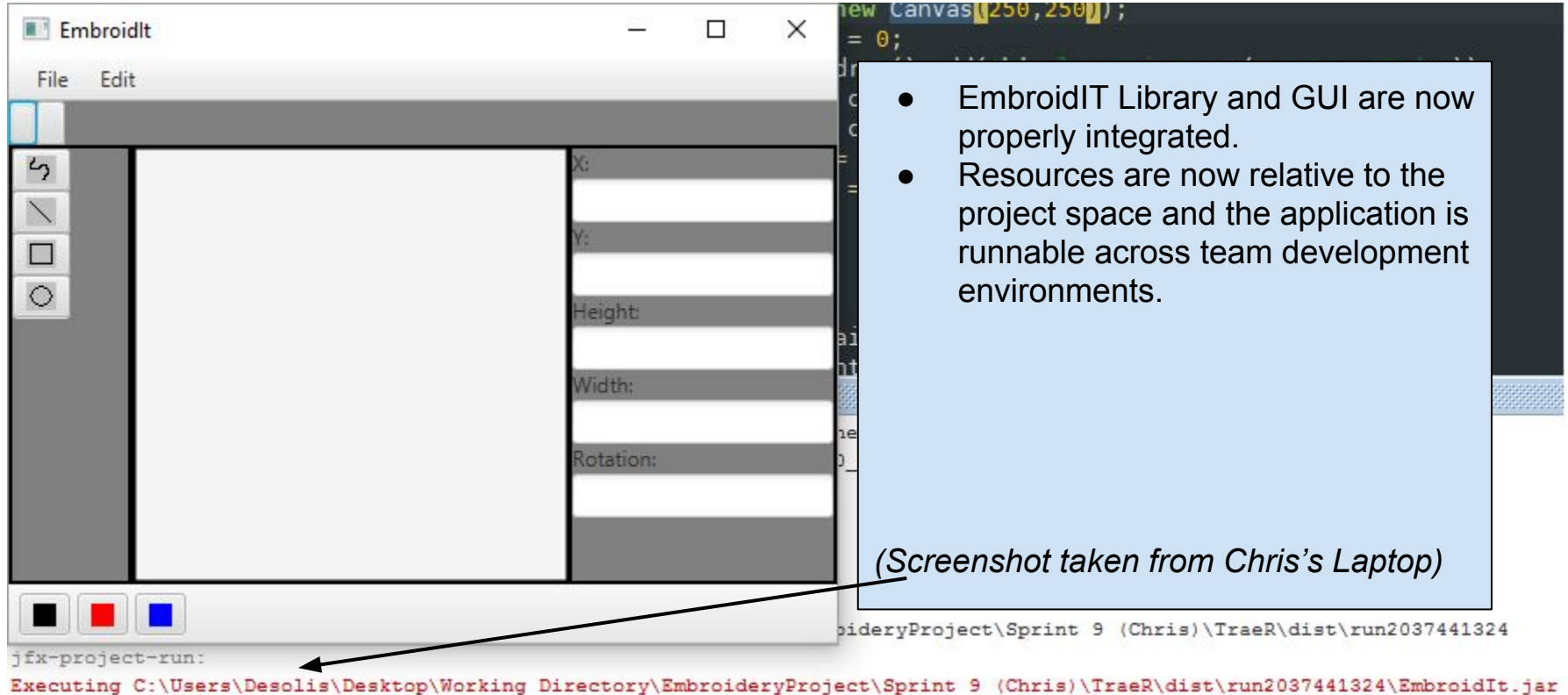
Weakness: Requires point intersection detection between a line and a shape, not included in JavaFX methods. May be available elsewhere.





GUI

Project Compatibility



Trae's Explain Undo/Redo Progress



SRS

Current SRS draft version

1.4

- Alpha features accounted for.
- Use cases included for:
 - Menu functionality.
 - New
 - Open
 - Save, Save As
 - Import PES, Export PES
 - Undo, Redo
 - Exit
 - Shape manipulation.
 - Create shape
 - Edit shape.

- Diagrams up to date.
- Next revision focus:
 - Continue to review wording for accuracy and concise statements.
 - Include any remaining diagrams.
 - Add use cases for color bar.
 - Trim any feature creep.

