Prepare Inkscape
- Set **Document Properties** to inches, document needs to be 12" x 12"

Import ROS 3
- Import ROS3 into Inkscape
- We need to change the size of the document to fit in the 12" x 12" square: <u>Select</u> object (the little arrow at the top of the left side) → Object → Transform → Scale → Scale Proportionally → height = 12"
- <u>+</u> (add a layer above), then move ROS3 to layer 1 (PDF file) → opacity = 20% → lock
- Now choose layer 2 → name layer → center stem. Keep this layer at 100% opacity.
  - It's easy to do a bunch of work only to realize you've done it on the wrong layer: Locking finished layers helps you to not do this, but you can always move selections to a different layer if need be.

Draw new block: **Center Stem layer**
- Choose <u>circle</u> → control drag and draw (get it close enough) → select <u>object</u> then move the object→ control then drag one of the arrows to size it correctly to the outer circle
  - If circle is black, Object → Fill and Stroke → Fill → No Paint → Stroke Paint (if invisible) → Flat Color
- <u>Control</u> keeps the x & y coordinates the same relative to each other
- Make inner circle then Group → <u>Select</u> object → Stroke Style → .025 in. Check the coordinates at the top to make sure stem is ¼". The outer circle needs to be ½" larger than the inner circle. Save. Lock layer.

Rose Bud Layer
- Draw rose buds and leaves → Group → <u>Select</u> object → Stroke Style → .025 in → Copy → Paste 3 times → Save
- If Inkscape won't let you change the stroke style, ungroup the objects, change the stroke style then regroup the objects. Then copy and paste 3 times.
- To perfect a rosebud unit, move it to a new document, make it symmetrical then move it back to the original document. When the grid view is on, you can select a node and move it around using the arrow keys to it doesn't snap to a grid line.

Rose layer
- Add a layer and name it (Rose layer), then hide the center stem layer
- Choose <u>Bezier</u> curves (the blue pencil on the left) and add nodes (be careful not to get the calligraphy pen. Put the nodes between curves – not at the center of a curve.
- Click the <u>Node Edit</u> tool to make curves. Demonstrate how to adjust curves, make nodes smooth and corner, makes nodes symmetric, use node handles
- Make inside circles → Group → <u>Select</u> object → Stroke Style → .025 in
- Select object → Object → Fill and Stroke → Fill → Flat color (first box) → HSL → Move L from black to white.
- Copy and paste the remaining 3 roses → Save → Lock layer

Design a quilt: **Block and Border lines**

- Open up new document → doc. properties → change to 56" x 56" (This will be 1" bigger than the quilt all of the way around)
- New layer (block and border lines) → Square tool → draw a 54" square, then make a 36" square → Group → Select object → Stroke Style → .025 → Save
- Bezier → draw block lines (blocks are 12" x 12") → Save
- Group all lines → Select object → Stroke Style → .025 in → Copy → Paste 3 times → Save

Registration lines
- New layer below (registration lines) → draw all registration lines 1" bigger than outside border (work on enough of this to give people the gist.) This can be frustrating because it's really easy to get off by a little bit. If you are having a hard time or if this feels tedious to you, make a new layer (new registration lines) → open the registration lines layer I emailed you in new document → copy and paste into the new registration lines layer → delete the old registration lines layer→ Save
- Select biggest diagonal → Edit → resize page to fit selection → lock layer

Insert Rose Blocks
- On block, delete original layer (PDF file) → Unlock all layers → Select everything → Group → Object → Transform → Scale → Scale Proportionally → width = 11" → Apply → Save
- Copy block → Paste in quilt and center (on new layer) → repeat for remaining 4 blocks

Construct Irish Chain
- You can make 4 blocks (like the ROS blocks) or 4 long diagonal pieces. If we do 4 blocks, we'll need to join the chain together at the intersection of the blocks but if we do 4 pieces, there will be no joining. Joining is important if you are going to digitally color the quilt.
- New Layer (Irish Chain) → Bezier start at 9:00, go up 1.5" then over 3" then up 3" etc. until you get to 12:00 then turn around keep going back to 9:00. This should make one object with no breaks→ Save
- Copy and Paste other 3 Irish Chain units → Save

Design the border: **Irish Chain extension**
- Bezier connect 12:00 and 3:00 through the border – **this is tricky:** → Save
- Hide registration line layer and block and border layer
- Node Edit tool → separate border chain from quilt chain at overlapping node → Break Path at Selected Node tool (from 1 to 2) on both exposed nodes → separate lines for both → Shift and click on north and south nodes to select both → Join Selected Nodes (from 2 to 1) → repeat for eat and west nodes → move nodes to proper positions → repeat for all intersections → Save
- Repeat process for the 6:00 to 9:00 connection → Save
- Delete the two remaining chains → Select large connected chain → Copy → Paste → flip Horizontal → Move into place → Save

Inkscape manual: inkscape.org/learn/books/