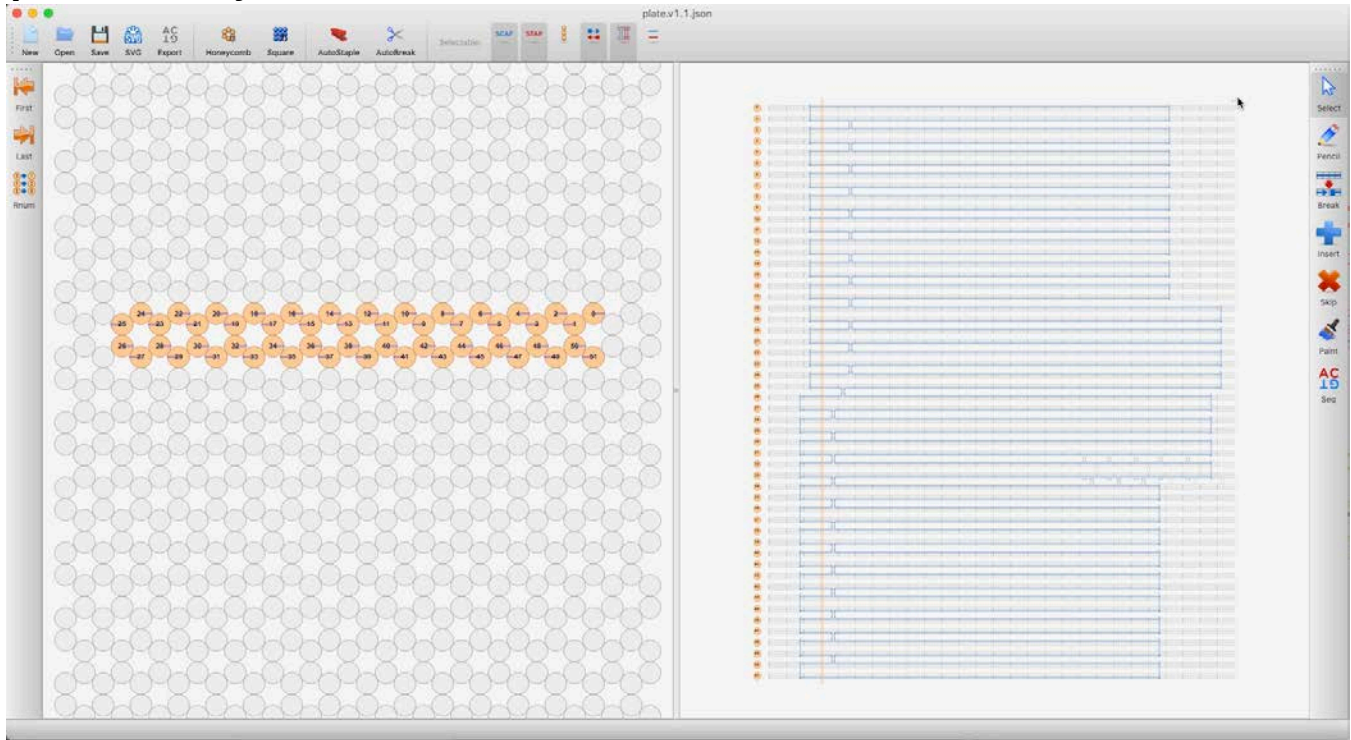
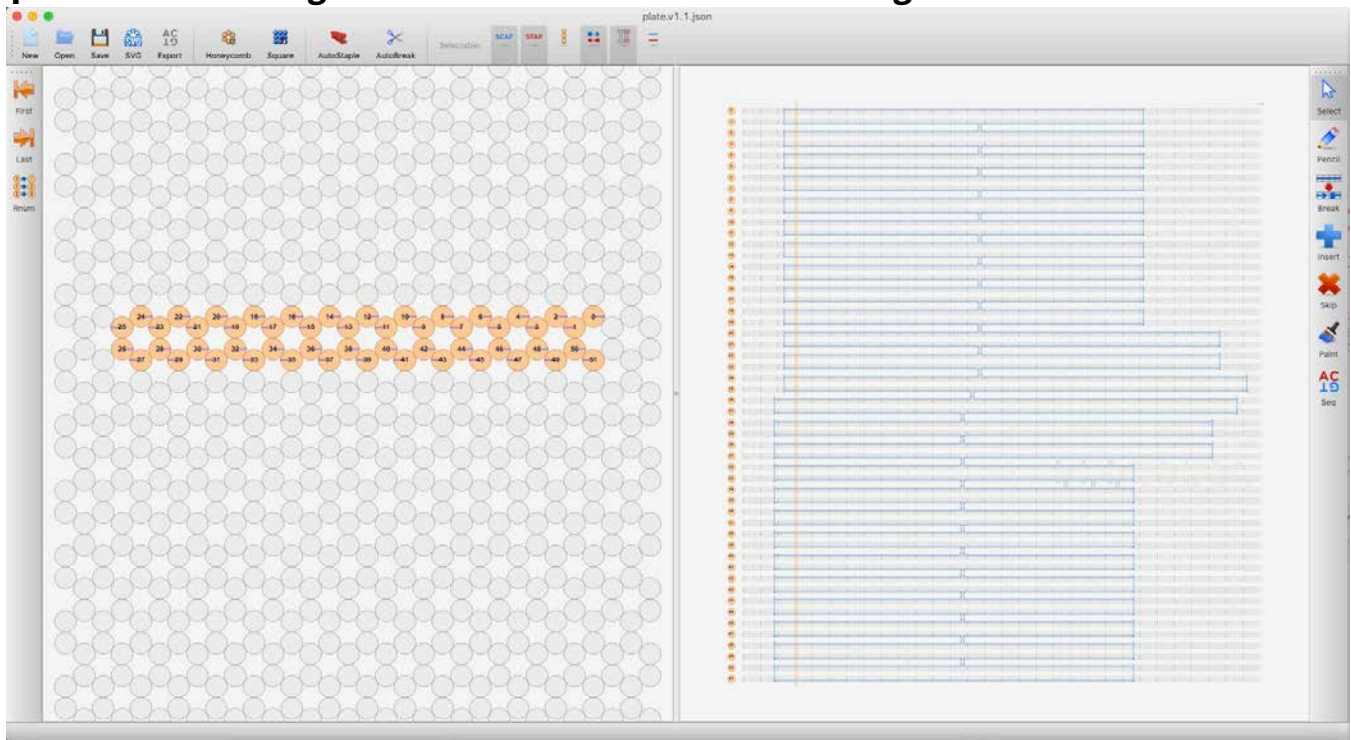


The screenshot displays the AC10 software interface. The top menu bar includes options like New, Open, Save, SVG, Export, Honeycomb, Square, AutoStaple, and AutoBreak. The left sidebar shows a grid of circular cells, with a central row of cells highlighted and numbered from 1 to 51. The right sidebar contains a detailed view of a single cell, showing its internal structure and various parameters. The bottom status bar indicates the current cell is 81[137].

### Step 3: Add an asymmetric domain

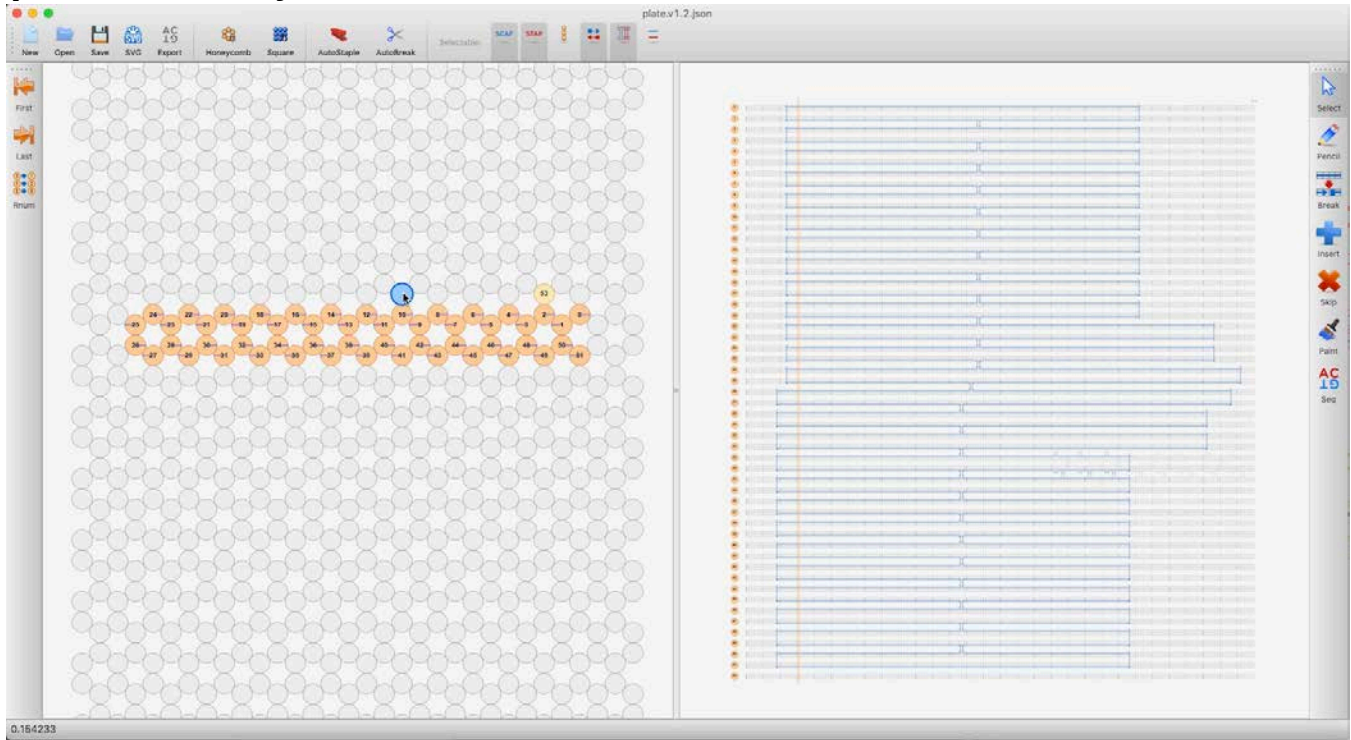


### Step 4: Tweak the length to reach the desired scaffold length

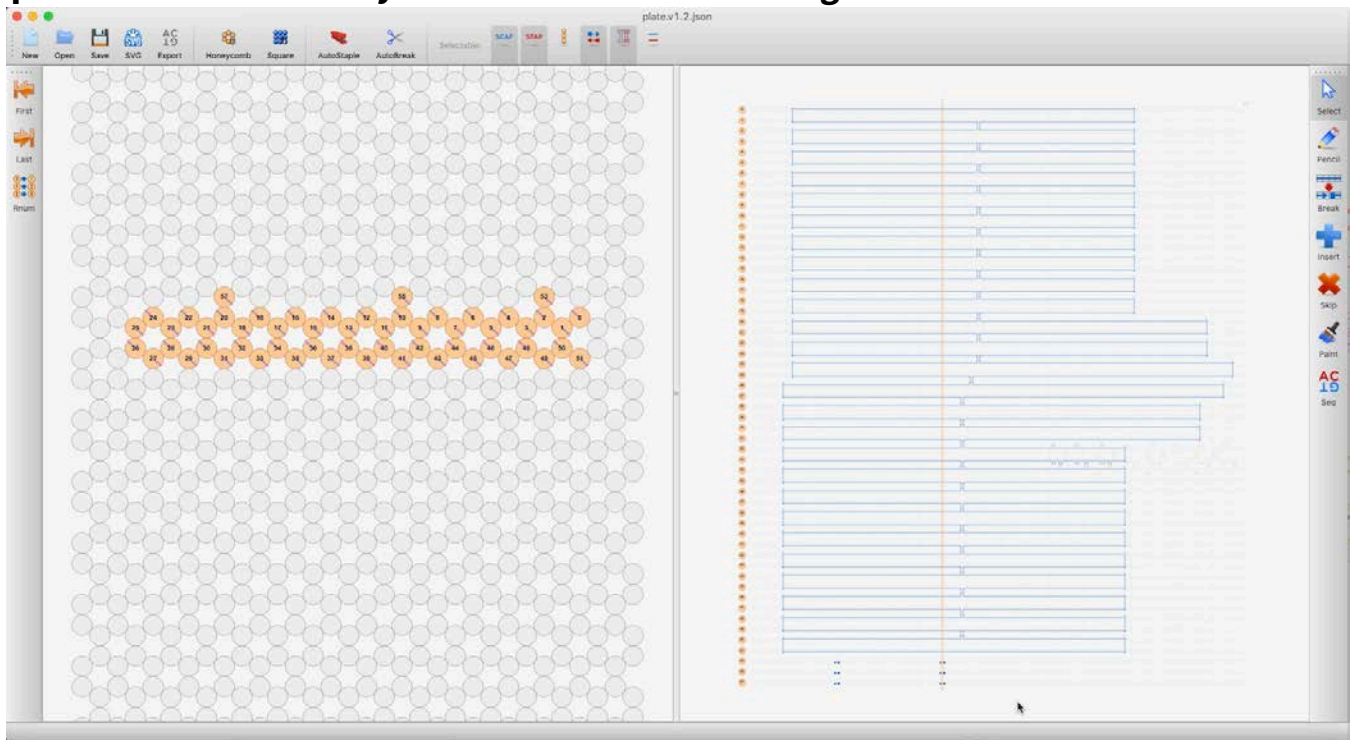




## Step 5: Add “dummy” helices at desired ssDNA handle locations

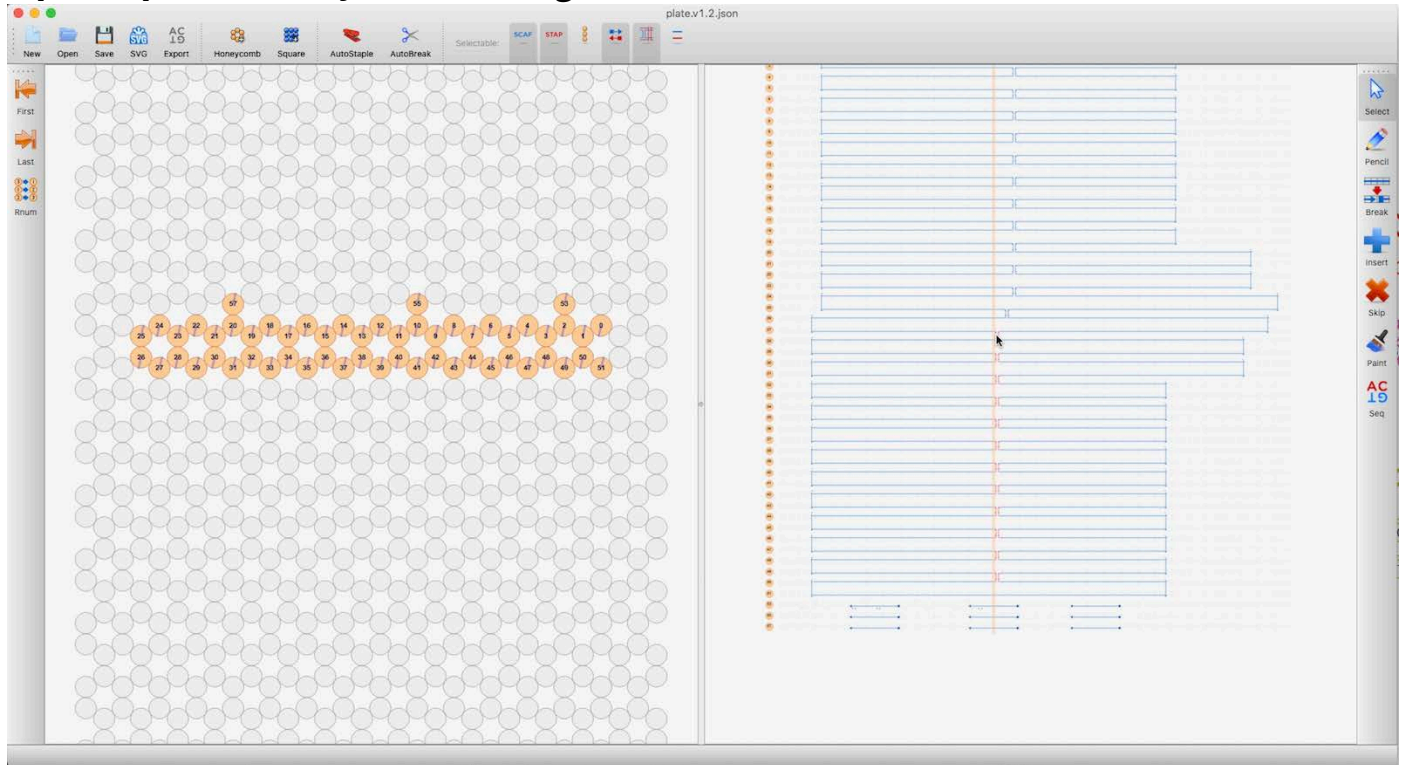


## Step 6: Place some dummy scaffold for handle routing

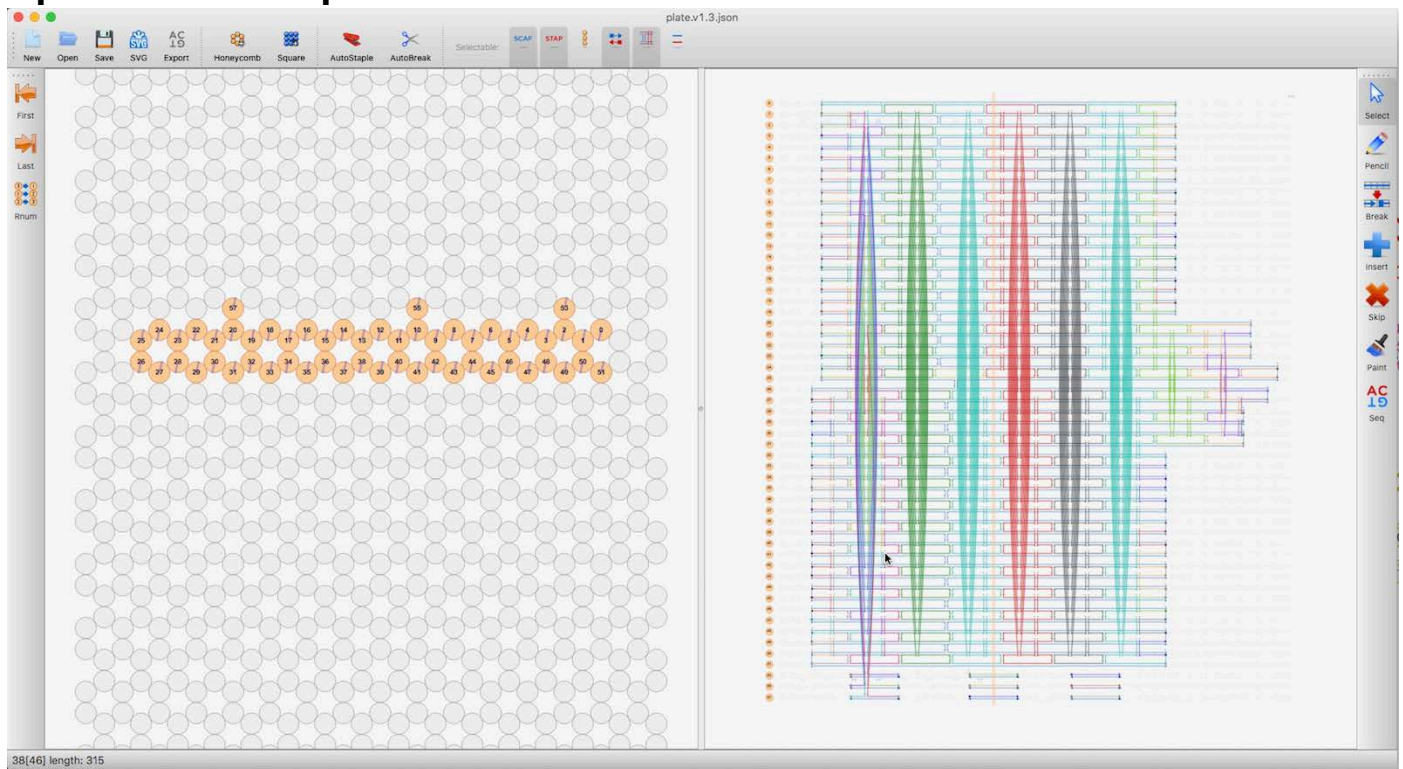


This tutorial is a DRAFT. A completed version will be available by the end of the workshop

## Step 7: Expand dummy scaffold lengths

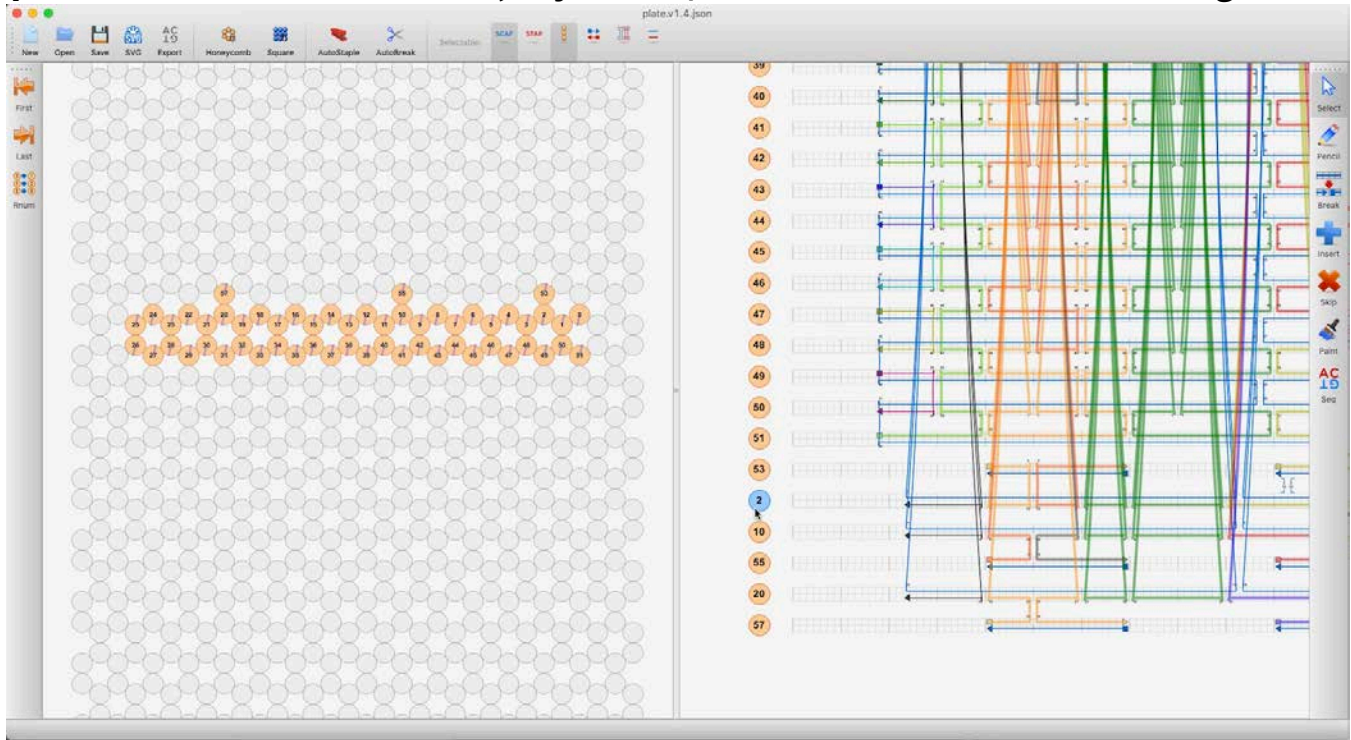


## Step 8: Click AutoStaple button

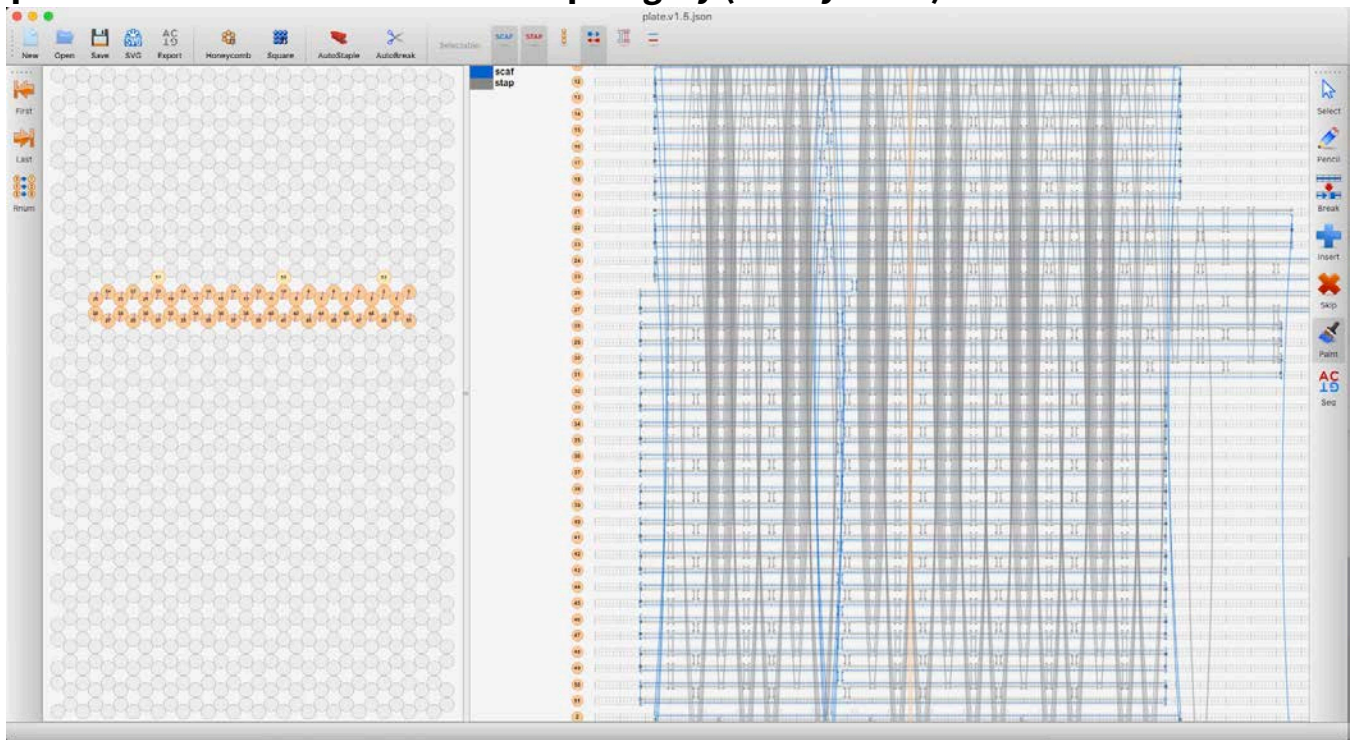




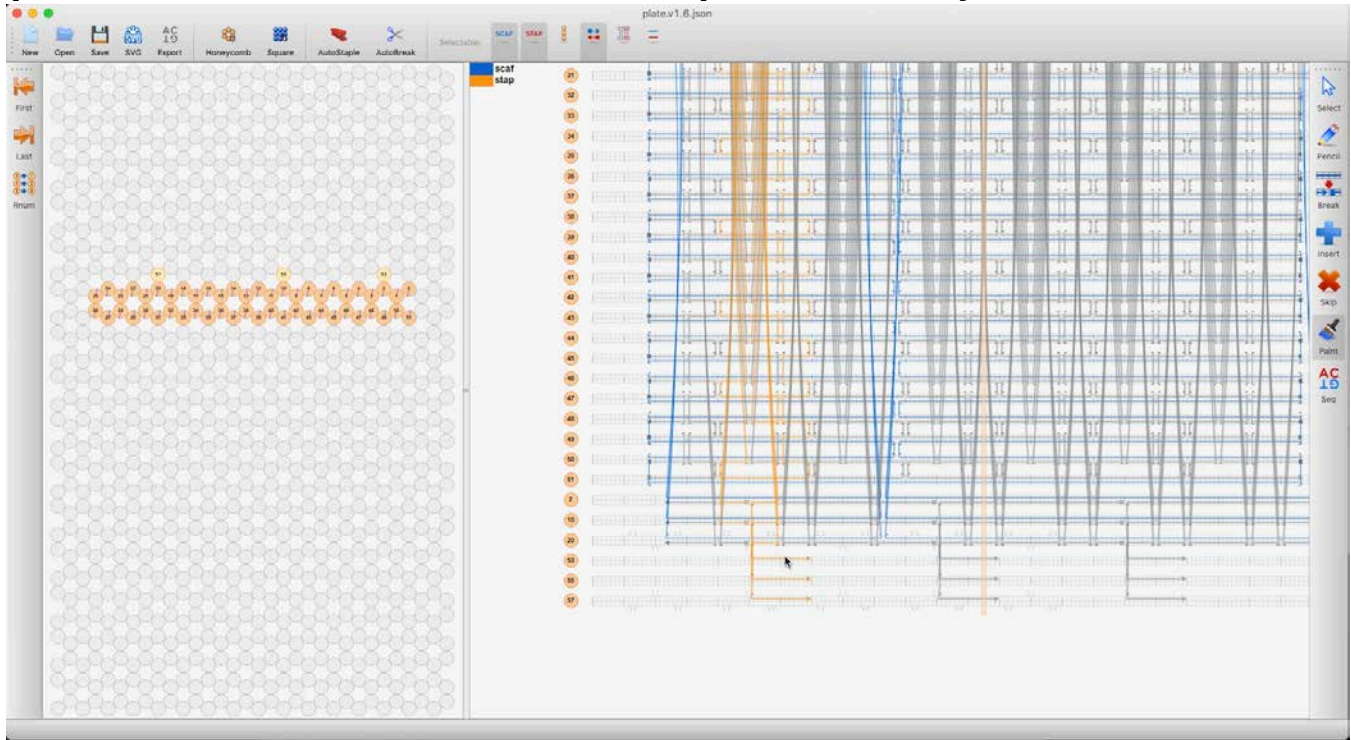
## Step 9: Examine handle locations, adjust and/or remove extra ssDNA overhangs



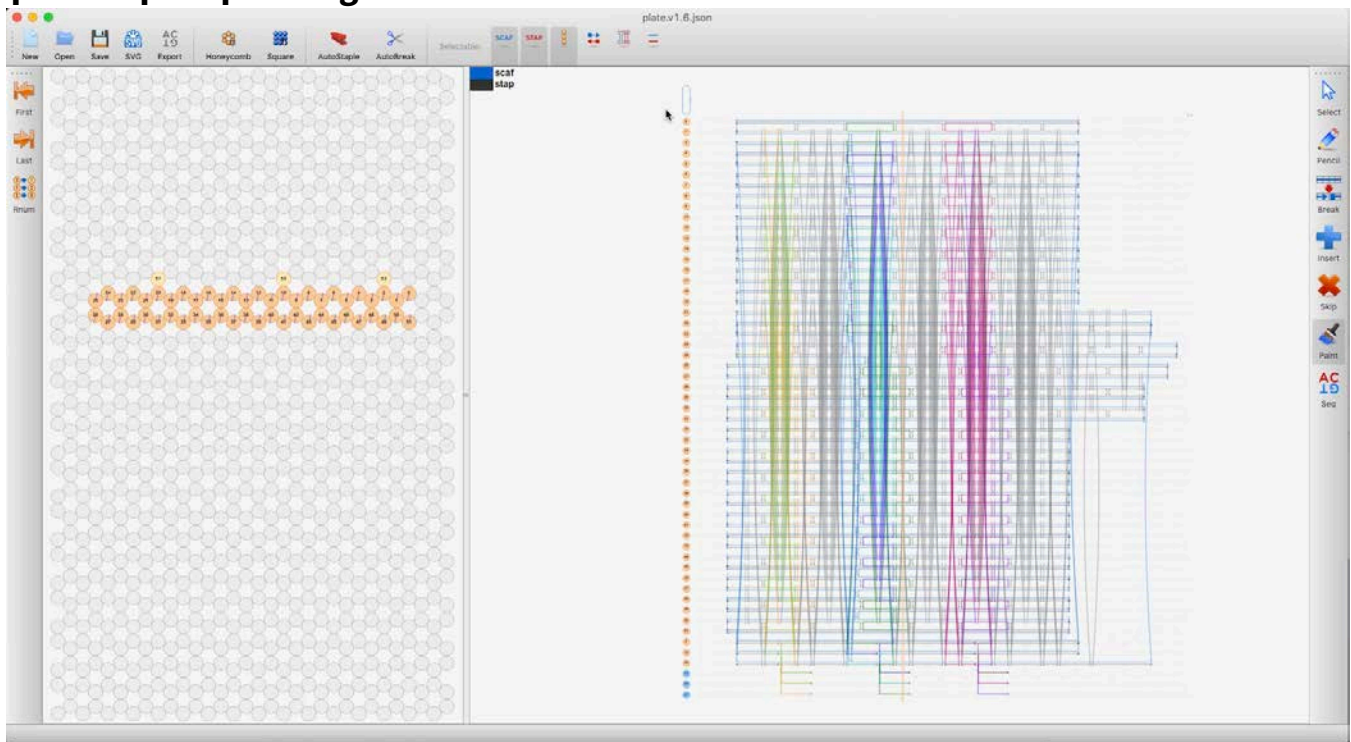
## Step 10: Use Paint Tool to color all staples gray (or any color)



## Step 11: Use Paint Tool to color handles a unique color for easy visualization

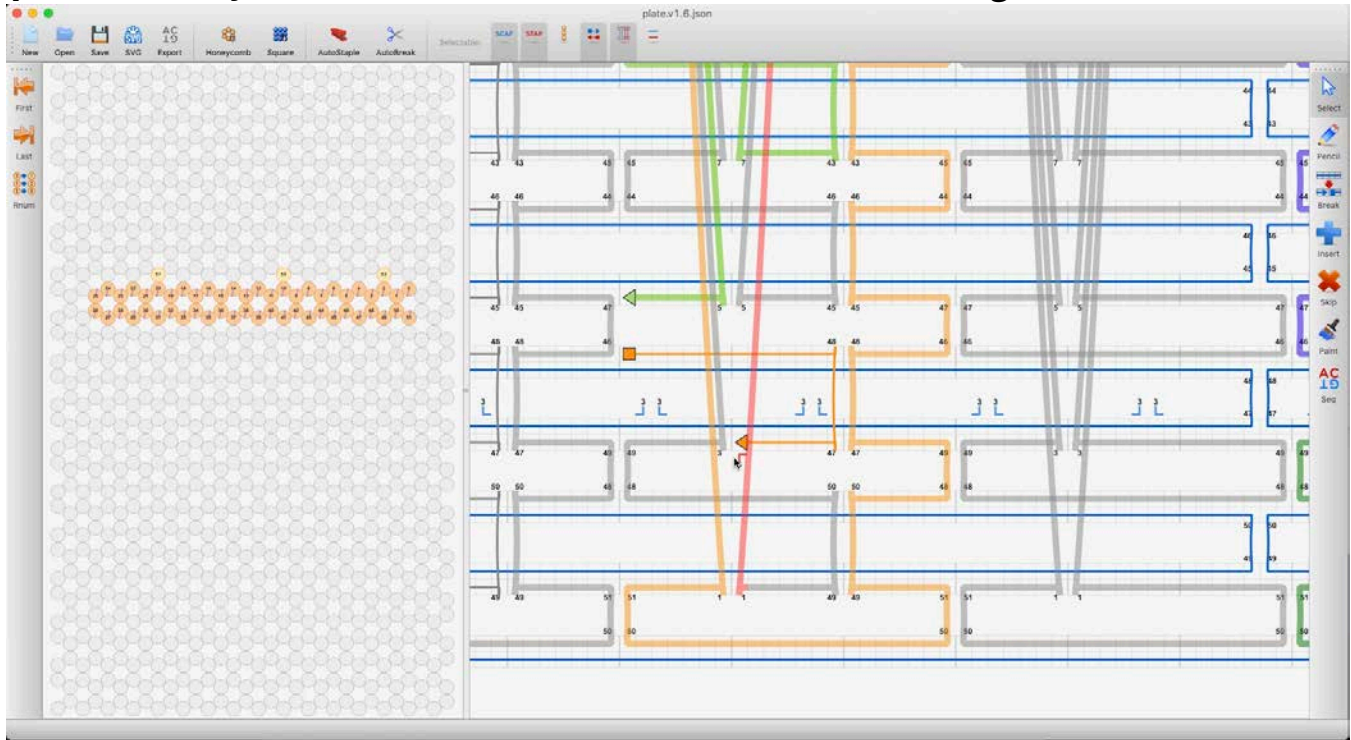


## Step 12: Repeat painting for each handle

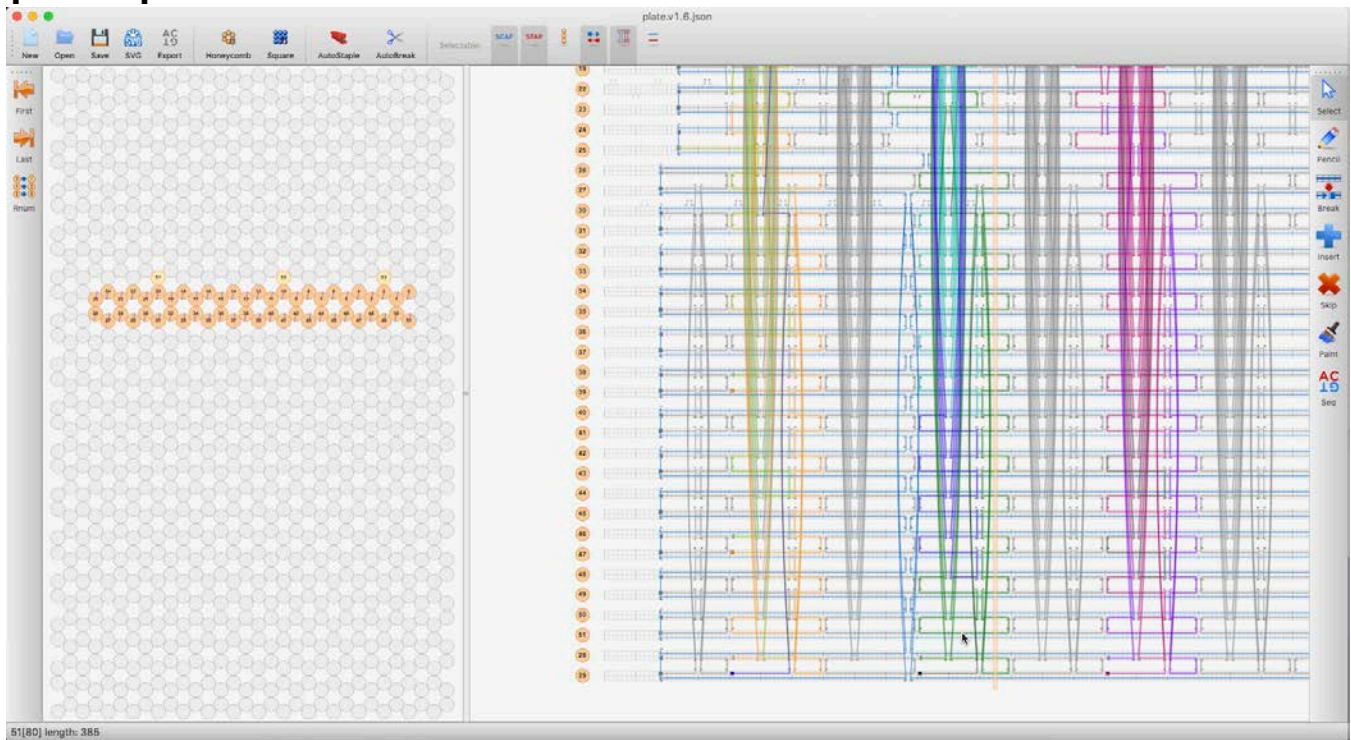


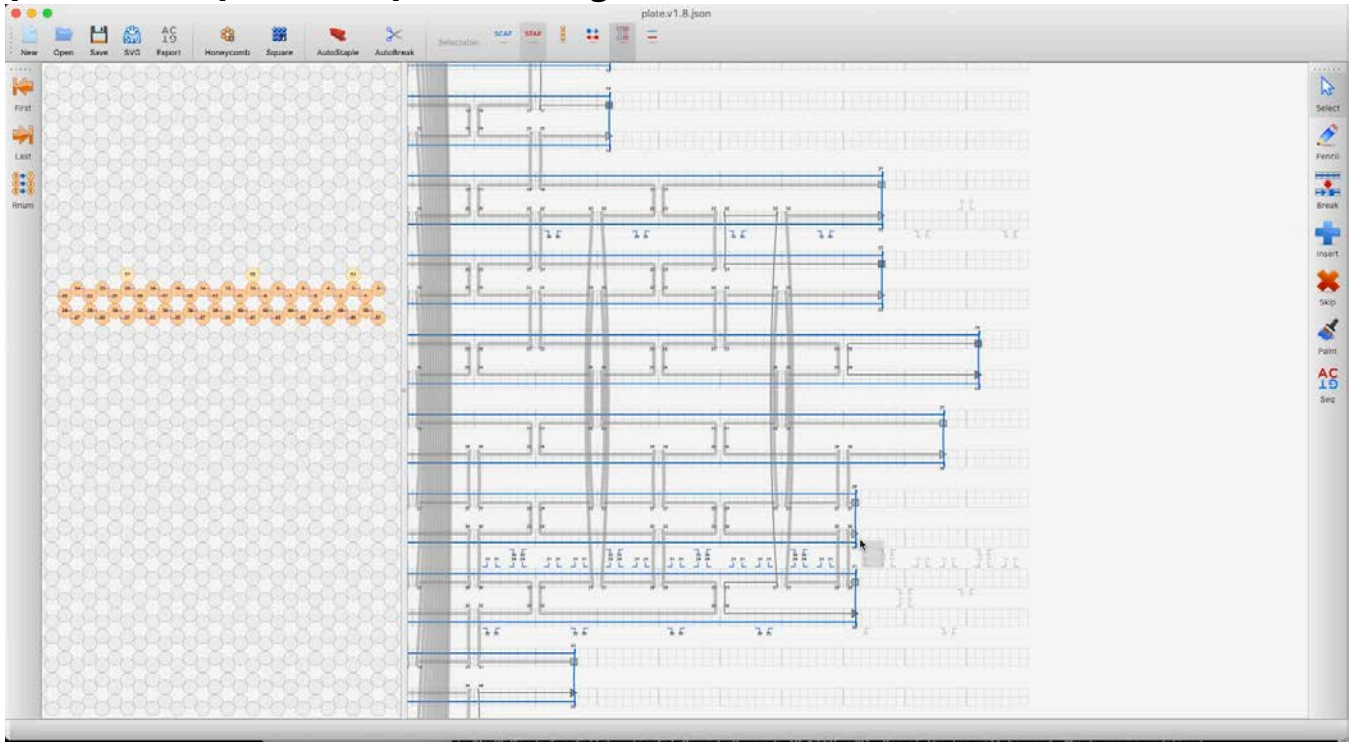


## Step 13: Manually break handle so it has at least one 14-base segment

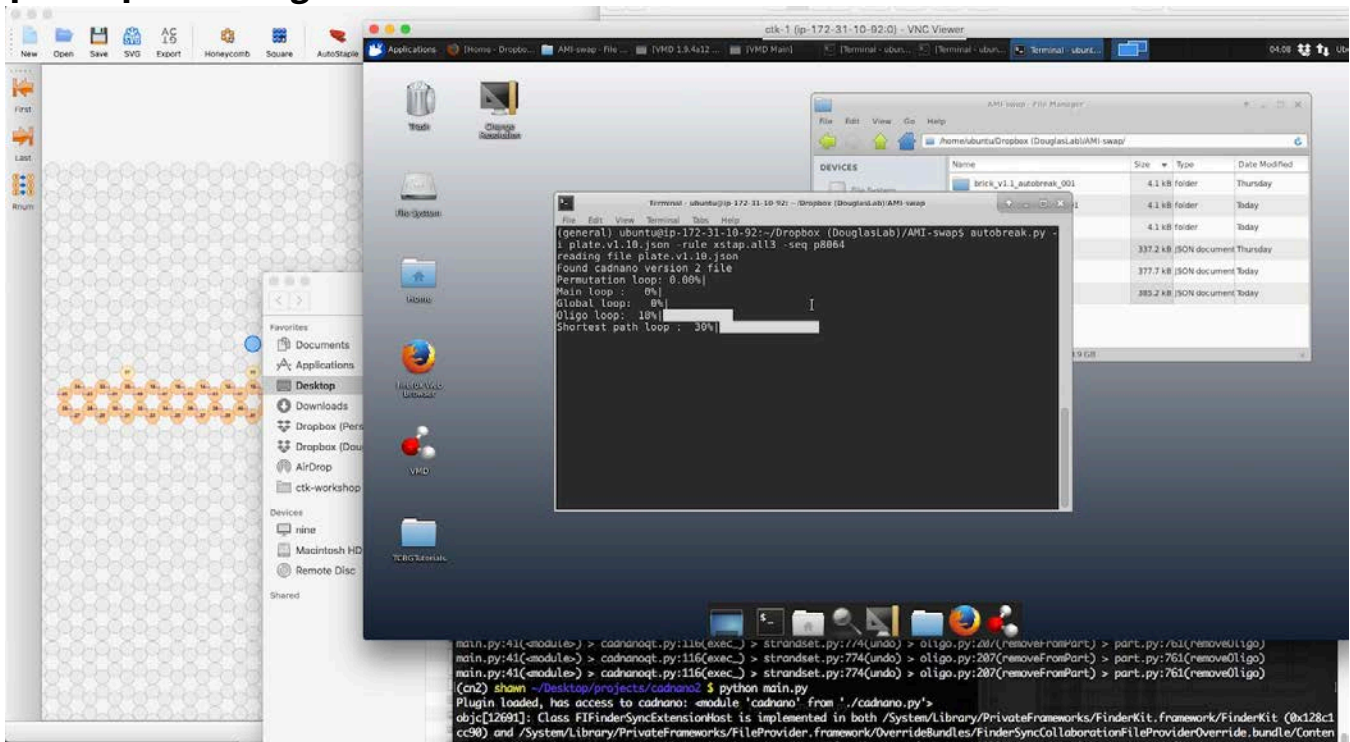


## Step 14: Repeat for all handles



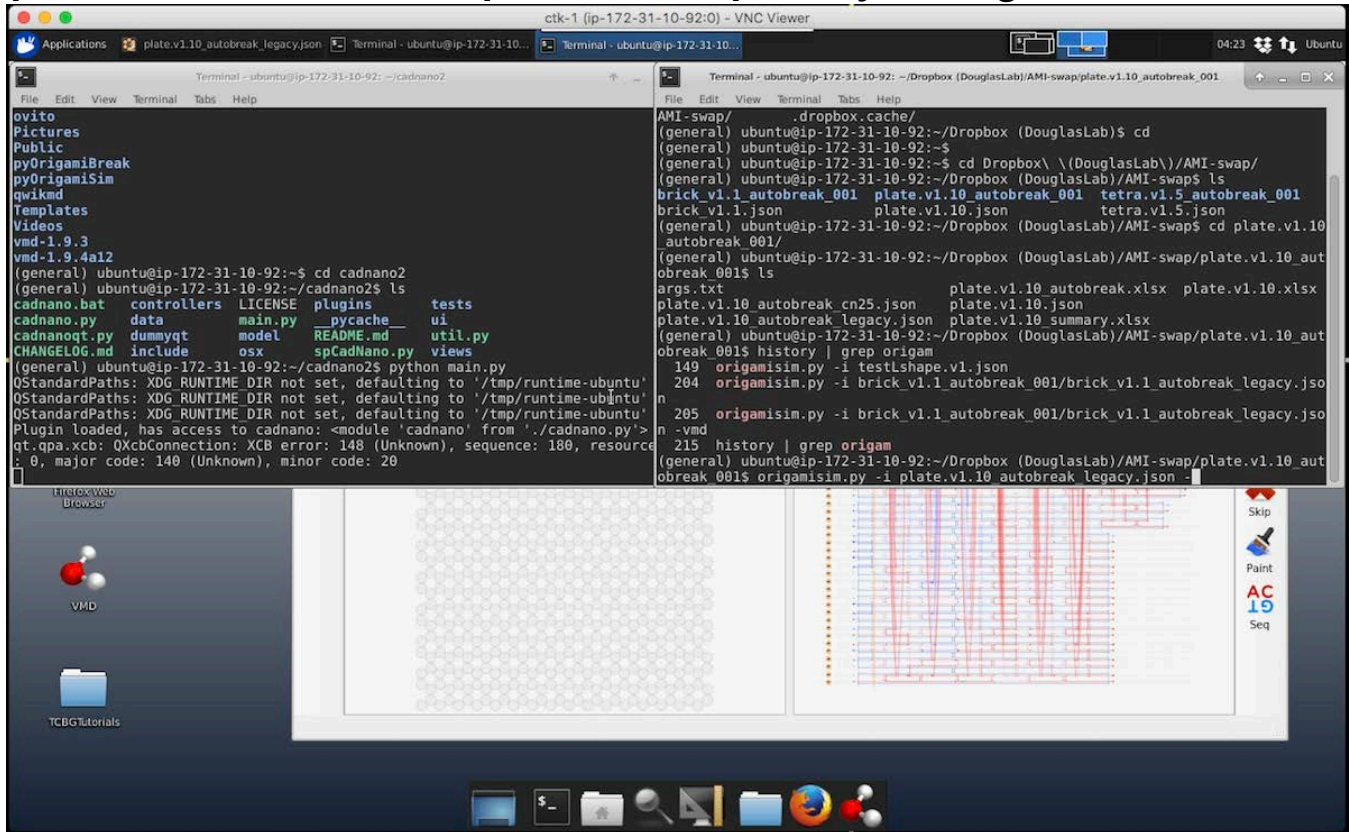


## Step 16: Upload design to AMI and run AutoBreak



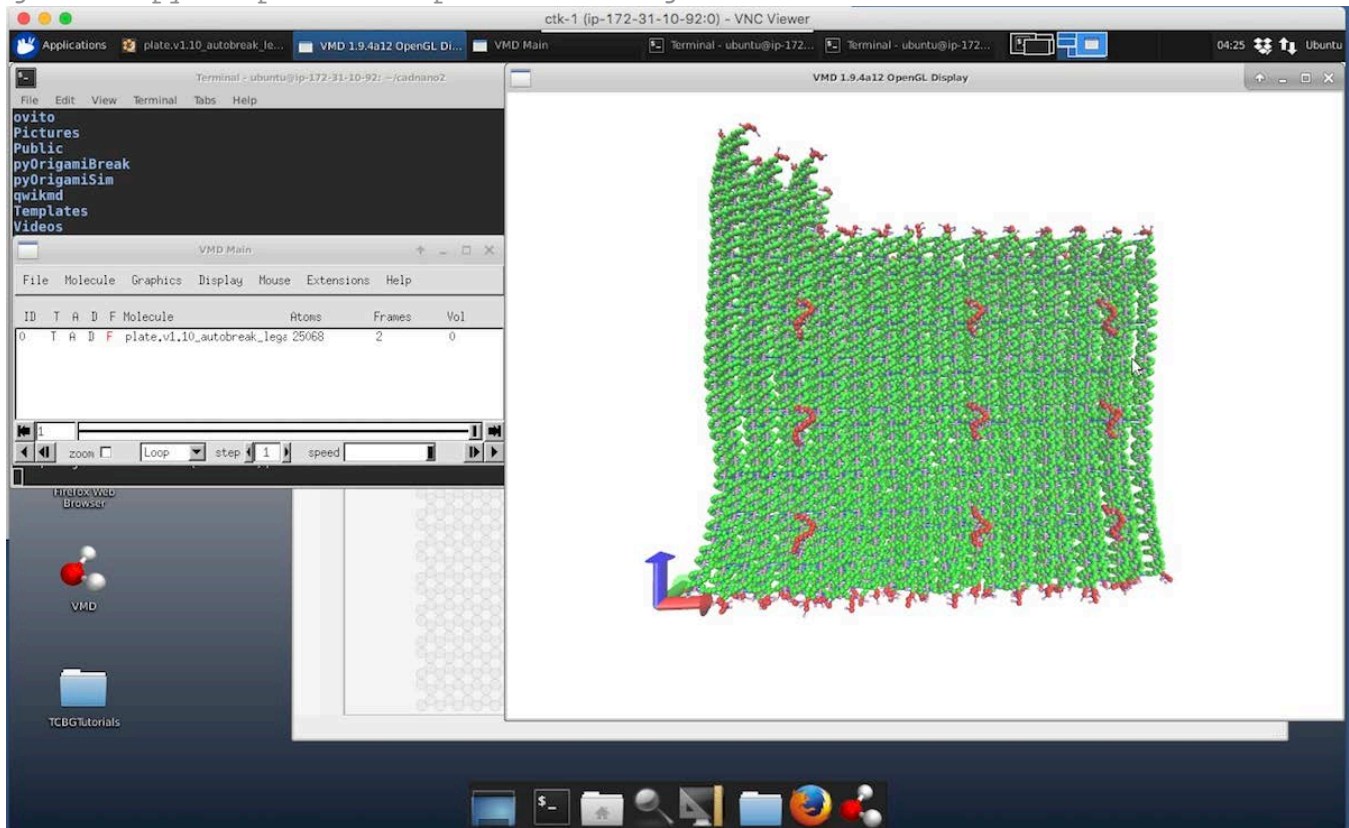


## Step 17: Examine AutoBreak output for blue staples. Adjust design as needed.



## Step 18: Run OrigamiSim.py to make structure prediction.

`origamisim.py -i path/to/input/filename.json -vmd`



This tutorial is a DRAFT. A completed version will be available by the end of the workshop

**Step 19: Watch VMD live output. Break early if any issues arise.**