

Session 2: Fiberworks Basics using Pattie Graver's book, Next Steps in Weaving

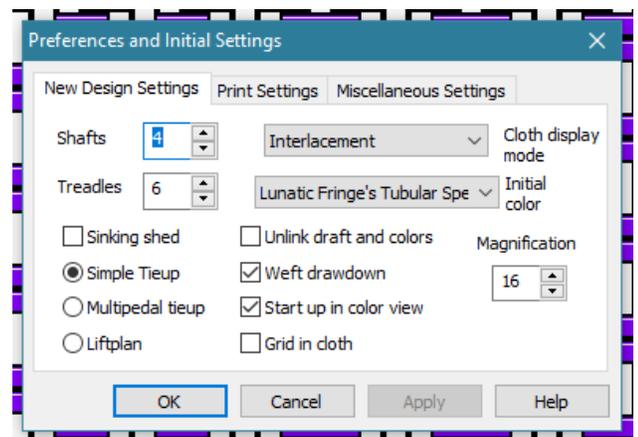
Session Two: In this tutorial, we will cover a number of Fiberworks features, functions and tools. In addition, we will be using our original Scarf of Lucky Colors and another project from Pattie Graver's book to practice using **Fiberworks** weaving software.

Helpful Features and Functions in Fiberworks:

1. **Status bar at the bottom of Windows:** From the bottom left, you will see the Number of shafts and treadles, total number of ends, number of weft picks shown. Toward the right you will see the magnification, cloth display mode, number of ends and the location of your cursor in warp and pick numbers plus the total picks shown based on magnification.

2. **Preferences: Under File** – Setting your preferences allows you to set how new drafts begin. This includes: # of shaft & treadles, cloth display mode, color palette (see page 7), magnification, etc.

3. **Modifying individual colors on the palette.** Click on a color that is close to your desired shade. There you can change the Hue, Saturation and Brightness or add an RGB value. Let's try this with the Scarf of Lucky Colors draft you put in last session.

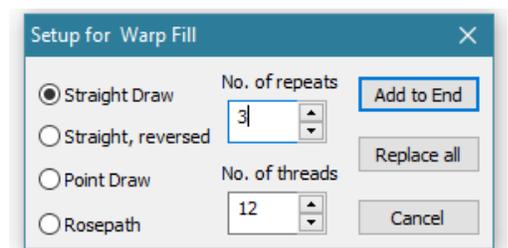


- a. As soon as you open the Scarf of Lucky Colors draft, do a Save As with a new name. I named mine, **Southwest Scarf of Lucky Colors**.
- b. Determine which colors you originally used in the draft. Let's start with the Green which was **G**. Click on the Primary color box for green, then modify the color by changing the Hue, Saturation and/or Brightness. You can **revert** back to the original until you close this color box. Once you close that box, the new color is saved and the old color is gone.
- c. Remember to Save when you are finished.

STOP

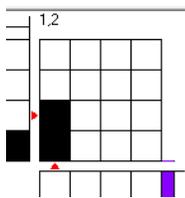
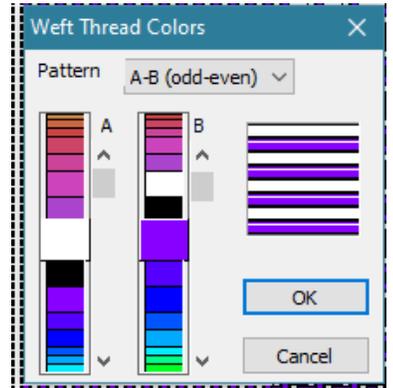
4. **Fill** – If you are adding warp or weft in a simple twill, point twill, reverse twill or Rosepath, this is a quick and easy way to add these warp or weft threads. Let's try it. Follow these steps to add a simple warp threading.

- a. **Open New draft** – 4 shaft, 4 treadle.
- b. Go to Fill under Warp. Add three repeats of Straight Draw, 2 repeats of Point Draw, 3 repeats of Straight, reversed, and 6 repeats of Rosepath.
- c. **Save as:** Fill Practice
- d. **Under Warp:** Do a mirror repeat. Then Save

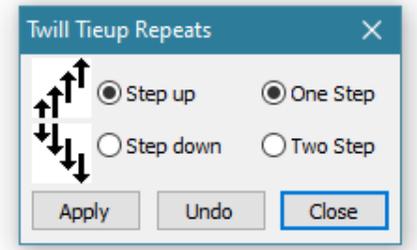


Now we will use this same draft to try out more Fiberworks functions.

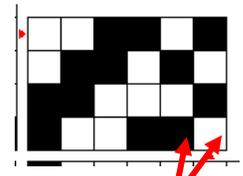
- Color and Weave: Changing warp or weft colors:** If you want to make a color pattern such as you would use in shadow weave, you can quickly do that under Warp or Treading. Go to Colors, then select the Pattern you wish. For this draft, choose A-B (odd-even) and select two different colors.



- Twill Tie-Up tool:** To quickly add a twill tie up, click on the shafts that will be lifted with the first treadle (far left). Go to the **Tieup tab** and click on **Twill Repeat**. For our draft we will select **Step up** and **One Step**. Apply and close.



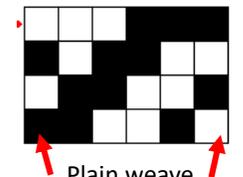
- Weave as Drawn In-** For our practice draft, we will make the treading the same as the threading. To do that quickly, you can use the **Weave as Drawn In** under **Treading**. **Don't forget to click the Color box.**



Plain weave

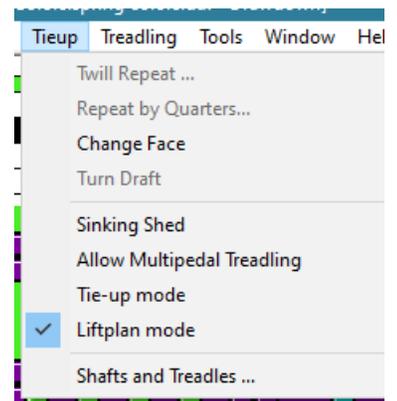
- Now go back into Tieup > Shafts and Treadles** and change it to 4 shafts and 6 treadles. Now add the plain weave tieup – 1 & 3, 2 & 4.

- Shaft Shuffler** – Silver- this allows you to move your treadles so you can “walk the treadles” or put plain weave treadles in your preferred location. This is found under Tools. **!! Remember to unclick it when you're finished using it!!**



Plain weave

- Using Liftplan mode instead of Tie-Up mode.** If you have a table loom or a doobby loom, you can quickly convert the tie up of a draft to lift plan. Under Tieup, click on **Liftplan mode**.



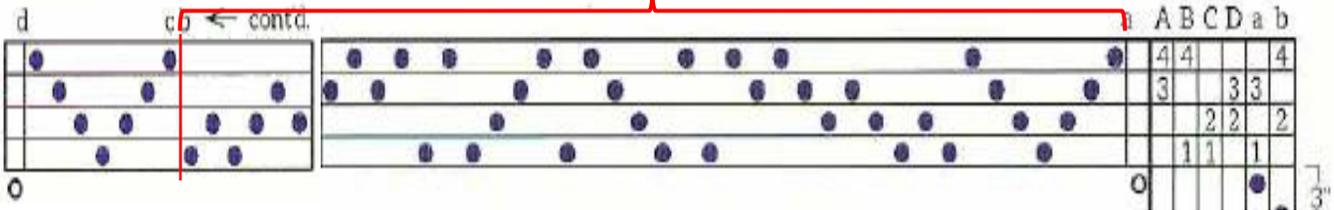
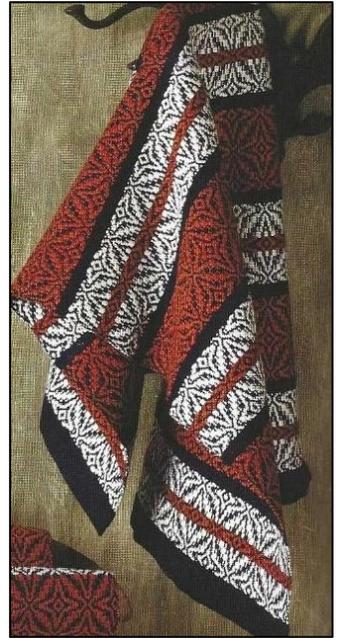
- Checking float length in warp and weft. Under Tools:** by clicking this, you will be able to see the float length to make design decisions.

Project 2: Contemporary Overshot Towels p. 107 –

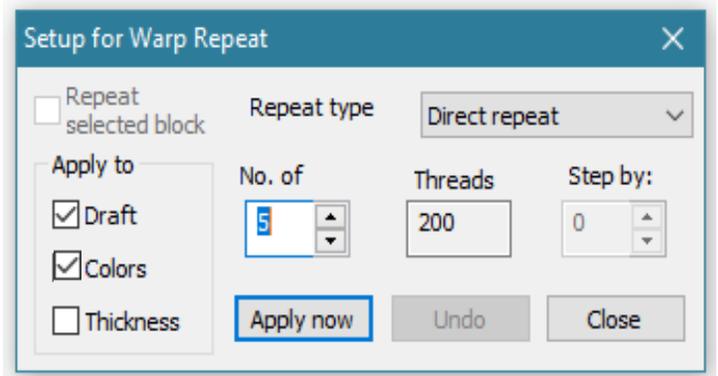
This draft will allow us to practice entering a draft then use the “Add Tabby” function. We will also use it to learn about Color and Thickness options.

Adding the draft to Fiberworks:

12. Open Fiberworks, select New Drawdown.
13. At the top, select **Tieup** and be sure you are in **Tie-up Mode**. Set the draft for 4 Shafts and 4 Treadles. The tieup shown below is for 6 shafts but we will let Fiberworks add those shafts and treading.
14. In order to enter your draft, be sure you have highlighted one of the thread patterns. 
15. Enter threading from point **a to point b** then **STOP**.



16. Repeat this threading (Under warp tab) for the desired number of threads. Notice that the Repeat menu box will show the result of the number of repeats. In this example, 5 Direct repeats will equal 200 threads. How many repeats would you need for a typical 8/2 towel?



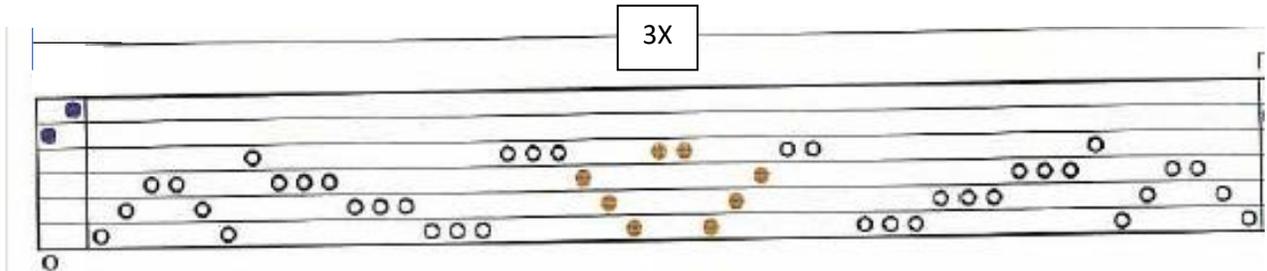
17. Now enter the warp threads from **c to d**.
18. **Add solid color to your warp – Navy. (Warp tab > Colors)**

Click File, SAVE AS .wif and name it “Contemporary Overshot”.

19. Enter Tie Up **A, B, C & D** as shown above. Note, you will not be entering your Tabby tie up (a and b) at this time.

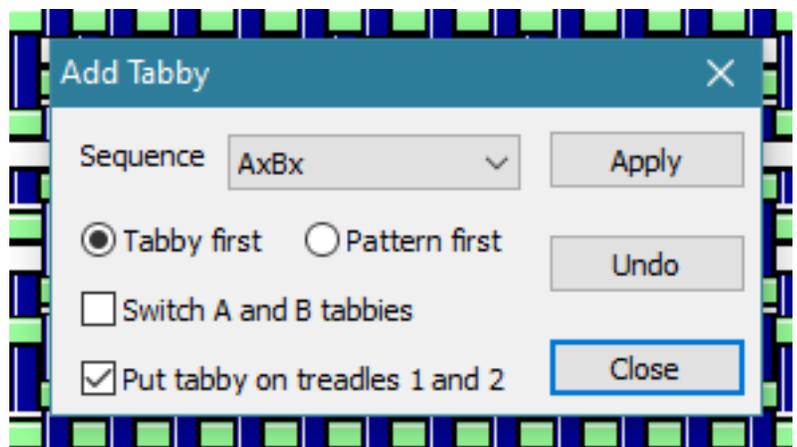
Continue to page 4.

The treadingling shown below is turned on its side to conserve space. **Note:** The draft calls for 3" of plain weave at the beginning then 1/2" of plain weave between pattern repeats. Instead, enter 8 picks of plain weave in Navy blue at the beginning. Enter this Treadingling once then add color to the area shown below. Then use the Repeat function under Treadingling to add 2 more repeats. Remember to include color when doing the repeats.



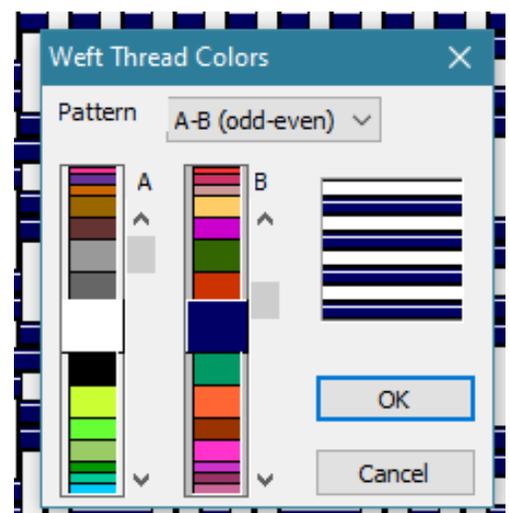
20. Change the color of the entire middle treadingling repeat to rust.

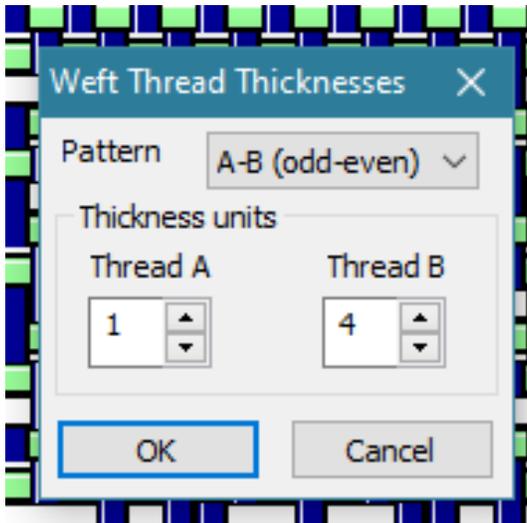
21. **Adding Tabby:** Under Treadingling, click on Add Tabby. A menu box will pop up. Be sure that the **Tabby first** button is checked and check the box that says **Put tabby on treadles 1 and 2**. Apply.



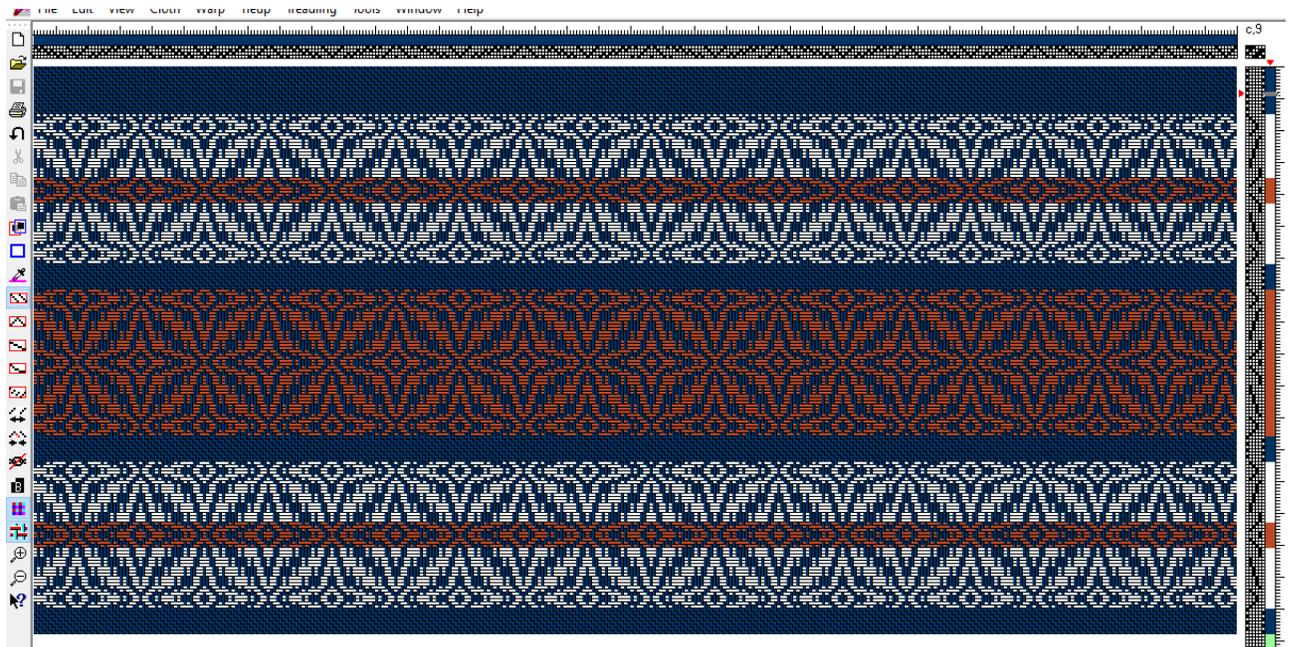
STOP

22. **Changing the color of the Tabby weft:** Under treadingling, click on **Colors**. Since you selected Tabby first in the step above, **A** will be the Tabby weft and **B** will be the pattern weft. Select the colors you want for each then click OK.





23. **Changing the thickness of the threads:** In order to show how the overshoot will actually appear, you can change the thread thickness. Under Treading, click on **Thickness**. Click on the Pattern box drop down and select A-B (odd-even). Since you entered Tabby first then pattern, change the thickness of Thread A to at least half the thickness of Thread B. In the example shown, Thread A is 1 and B is 4. Click OK.



STOP

Expanding a draft from 4 to 8 shafts

24. We will now use the Lucky Colors scarf pattern to expand a 4 shaft draft to an 8 shaft draft. You may want to do this if you are converting a scarf pattern to a towel or a towel to a blanket. In particular, this could be helpful if you will not have enough heddles on your shafts and therefore, you might want to use heddles on different shafts. Entering this draft on Fiberworks will then give you correct heddle counts, threading, etc.
25. Open your existing Lucky Colors scarf draft. Do a Save As, naming the new draft – **Lucky Colors Towel**

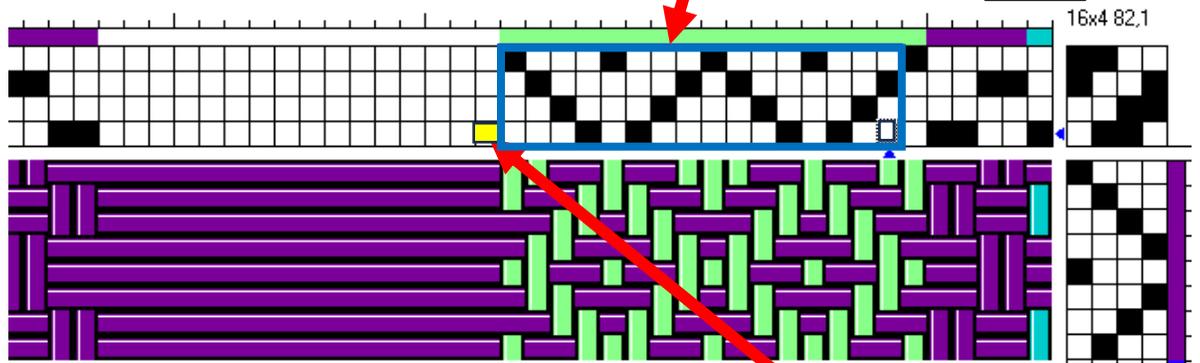
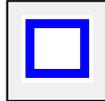
26. Under Tieup, change to 8 shafts and 4 treadles.

27. This draft has 177 warp threads and our towels are usually about 400 threads across. So, we will add some warp threads. First, we will copy a portion of this draft to get closer to 200 threads.

28. Find an area of the draft you want to copy. Count the number of threads this section will add (16). Click on the next warp thread to the left or right of the area then use the **Insert Threads** button to expand the warp by the number of threads you wish to copy and paste.

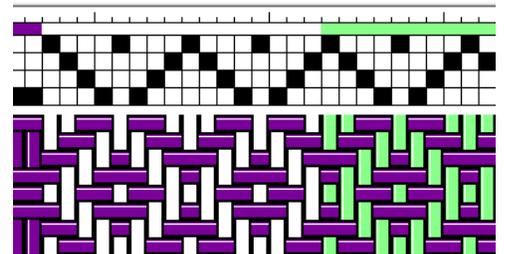


29. Now use the **Select Rectangle** button and select the threads you wish to copy.



30. Click the **Copy** button, then put your cursor on the empty warp thread furthest to the right in the space you made then click **Paste**.

31. This will not copy the color in the warp so you will need to recolor these new threads. You can use the **Pickup Color** tool to capture the correct color.



32. You are now ready to repeat this 4-shaft draft onto shafts 5 through 8. Go to Warp, then Repeat. Check the box for colors then, instead of choosing Direct repeat, choose **Drop repeat**. This will add the repeat to shafts 5 thru 8.

33. **SAVE**. You can now go to File, Preview and Print and you will see the new heddle counts, etc.

2. Lucky Colors Towel.dtx						
Heddle Counts by Shaft Number:						
Shaft	1	2	3	4		
Count	122	86	121	68		
Color	Description	HSB value		warps	wefts	
	dark violet	288	100, 60	88	8	
	deep cyan	180	100, 80	159	0	
	pale green	120	47, 100	150	0	

Questions or ideas for next class?

Color options under Preferences:

Start up Colors

Classic DOS

Lunatic Fringe
Tubular Spectrum

Spring, Summer,
Autumn, Winter

Tints & Tones

