Introduction to weaving software using DCW Fiderworks

Dresenced by Robyn Spady

иши.spadystudios.com кобуп@spadystudios.com (360) 204-6188

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Workspace - Draft View (PC version)



Workspace – Draft View (Mac version)



This color palette is a floating toolbar and may appear in a different location on your screen.

Tool Bar – Basic Commands

(icons only show for the PC version)

New File

New File - Creates a new document with the default settings from the application's preferences and opens a draft view for it.



PC = Ctrl + N

Mac = Command + N

File Open

File Open - Opens a DTX or WIF file and displays it in a draft view.



PC = *Ctrl + O*

Mac = Command + O

File Save



File Save - Saves the file in DTX or WIF format using the original filename, if any. Use the **File** \rightarrow **Save As** command from the menu bar to save the file under a new name or formant (.dtx vs .wif)

PC = *Ctrl + S*

Mac = Command + S

Preview and Print



Preview and Print - Opens the print preview window which contains options for printing the active view in WYSIWYG fashion (*what you see is what you get*).



Mac = Command + P

Undo

 $\pmb{\mathsf{Undo}}-\mathsf{Backs}\ up\ one\ action$



PC = *Ctrl + Z*

Mac = Command + Z

Cut



Сору



Copy – Saves the selection into the computer's memory.



Mac = Command + C

Paste



Paste – Places the selection in the computer's memory.

PC = Ctrl + V

Mac = Command + V

Drafting Tools – PC and Mac

Straight Draw



Straight draw –May be used to insert a single end or pick with a single mouse click. It may also be used to click-and-drag to create a straight in the threading, treadling, or tie-up.

Point Draw



Point draw – May also be used to click-and-drag a point line in the threading, treadling, or tie-up.

Line Draw



Line draw – Draws a stepped line along the diagonal of the rectangle from where you clicked down to the current cursor location. This style can be used for profile drafts.

Draw Freehand



Freehand draw – Draws directly into the threading or treadling draft. Unlike the *straight*, *point*, and *line* draw tools, in *freehand* mode the mouse tracks exactly on the line. This style is used mostly for profile drafts and creating network drafts.

Draw on Network



Draw on network – Draws onto a network based on a 1:3 twill initial, with

network lines running left or right respectively. The mouse should follow the overall shape of the line you are drawing, as for freehand mode.

This is one mode where you should not try to click one square at a time, since drawing does not take place exactly on the mouse hotspot.

Select Rectangle

Select rectangle – This tool allows you to select a rectangular area in threading, warp color bar, treadling, weft color bar or tie-up. A selection rectangle is outlined in blue to distinguish it from a red drawing rectangle. Click down in one corner and drag out until the rectangle covers the desired area. The contents of the selection rectangle can then be used in **Cut**, **Copy** or **Transform** operations.



To use the Select tool, click the toolbar button. The cursor will become a pointer

instead of a pencil to indicate the mouse is selecting rather than drawing. While the cursor is a pointer inside the drawdown frame, you can't draw, apply color or change thread thickness with the mouse. When you have completed the task required using the selection tool, click a red drawing tool icon when you need to draw again.

Pickup Color

Pickup color – The pickup color tool looks like an eyedropper. It is used to select or re-select a color that appears in the warp or weft color bars. When the tool is active, the cursor becomes an eyedropper.



Position the eyedropper on the warp or weft color in the color bar you want to select. When you click with the left button on the color using pickup tool, the color becomes the main working color (upper left square).

Use this tool when the palette contains several similar colors, and you can't remember which was used previously. After you have clicked a color, the drawing tool previously used is restored. You must click the pickup color tool again if you need to select another color.

Insert Tool



Insert tool – The insert tool pushes threads apart to make a gap for adding warp ends, weft picks, or treadles in the tie-up. First move the insertion point onto the end or treadle where you want create space. The insertion point is usually wherever you last clicked or released the mouse button. Each click of the toolbar button or each keystroke either adds one empty thread (spacebar or insert button).

PC

PC = Insert button

Mac = *Spacebar*



Mac

Delete Tool



PC

Delete tool – The delete tool removes warp ends, weft picks, and treadles. First move the cursor to the location where you want to remove ends or treadles. Remove ends by clicking the left mouse button or clicking on the delete button.



PC = Delete button

Mac = Delete button

Mac

Increase or Decrease Size of Draft



Increase or Decrease the Size of the Draft – Click on these buttons (PC) or sliding the arrow on the bar (Mac) will make the size of the draft increase (+) or decrease (-)

PC

PC = Ctrl + + and Ctrl + -



Mac = Command + + and Command + -

Mac

Help Function – PC version

$\operatorname{Help} \to \operatorname{Help}\operatorname{Topics}$

To search how to use many functions in **Fiberworks**, go to the **Help** menu. This menu may be found on the tool bar on the far-right side. You may enter key words in the Search entry field to find what you are looking for.

| Help | |
|------|-------------|
| | Help Topics |
| | About pcw |

By selecting **Help Topics**, the screen below will open. From this screen, it is possible to search on a keyword, view Help contents, or view the Help index.



Help Function – Mac version

Help \rightarrow Search entry and Fiberworks Help

To search many functions in **Fiberworks**, go to the **Help** menu. This menu may be found on the tool bar on the far-right side. You may enter key words in the **Search** entry field to find what you are looking for.



By selecting **Fiberworks Help**, a window appears.



Making a Simple Draft

How to Add and Delete Warp ends, Weft Picks, and Treadles

To add or delete one end at a time or freehand lines



Select the appropriate drawing tool. Your cursor will change to a pencil.

- To add one warp end, click the left mouse button once in the threading area.
- To add a series of continuous warp ends, click and hold down on the left mouse button and drag across the threading area. A red box will outline the area



- On a PC
 - To delete one warp end, double click with the left mouse button on the warp end you want to delete.
- On a Mac . . .
 - To delete one warp end, click the right mouse button on the warp end you want to delete or double click with the left mouse button.
 - To delete a series of continuous warp ends, click and hold down on the right mouse button and drag across the threading area.

Repeat Threading or Treadling Sequence

Warp \rightarrow Repeat or Treadling \rightarrow Repeat

From this window, it is possible to set the following parameters:

- Repeat the threading or treadling sequence, warp or weft colors, and warp or weft thickness.
- Number of repeats (as the number of repeats is increased or decreased, the number of threads will change)

| | Threading | Repeats | |
|------------------|---------------|-------------|-----------|
| Repeat the curre | ent selection | Repeat Type | : |
| Apply to: | | Direct Repe | at ᅌ |
| 🗹 Draft | Repeats: | Threads: | Step by: |
| Colors | 2 | 32 🗘 | 1 |
| Thickness | Including the | e original | |
| Close | U | ndo | Apply Now |

Under **Repeat Type**, a menu of repeat options are shown

| • • • | Threading F | Repeats |
|------------------|---------------|---------------------------------|
| Repeat the curre | nt selection | Repeat Type: |
| Apply to: | | ✓ Direct Repeat |
| 🗹 Draft | Repeats: | Mirror Repeat Rotated Repeat |
| Colors | 2 🗘 | Inverted Repeat |
| Thickness | Including the | Drop Repeat Advancing Repeat |
| Close | Un | Descending Repeat |

The Step By entry point is used for advancing and descending sequences

Flip Threading or Treadling Sequence

To repeat a warp threading or weft treadling sequence, choose **Flip Sequence** from the **Warp** or **Treadling** menu.

| 00 | Flip Threading |
|-------------|--------------------------|
| Include: | Acting on the threading: |
| 🗹 Draft | |
| Colors | Make Symmetrical |
| 🗹 Thickness | Reverse Sequence |
| | |

Make Symmetrical – Adds a reversed sequence

Reverse Sequence - Replaces the original sequence with a reversed sequence

Editing in the Drawdown – It is possible to edit the tie-up of the draft by clicking in the drawdown of the draft. This will change the tie-up or the liftplan.



Entering Warp Ends and Weft Picks using the Keyboard

A threading or treadling pattern can be entered using the keyboard instead of using the mouse. This can be an efficient way to enter a threading or treadling sequence.

To enter a pattern, click on the starting point in either the threading or treadling window and type in the shaft (or treadle) numbers starting with that end (or pick).

For numbers greater than 10, the row of keys below the number keys will enter warp ends or weft picks. For example, 'q' 11, 'w' for 12, and so on. See the diagram below for which keys will enter ends on which shafts or treadles.

| 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | ε | 7 | 7 | 8 | 8 | 9 | 9 | 0. | 10 | | |
|---|--------|----|--------|--------|-----|--------|--------|--------|----|----|----|--------|-----|---------|--------|------------|---|----|----|-----------------|---|
| 6 | ן 1 | 11 | W | 12 | e | 13 | г 1 | 4 | t. | 15 | y | 16 | u | 17 | i 1 | 8 | 0 | 19 | P | 20 | |
| | a | 21 | ۱ ۱ | s 2 | 2 d | 23 | f ¦ | 24 |]g | 25 | j∣ | n 2 | 6∫i | 27 | ľk | 28 | ľ | 29 |]; | 30 | |
| | | z | 31 | X : | 32 | с З | 33 | v 3 | 4 | Ь | 35 | n | 36 | [m 3 | 37 | ' 3 | 8 | 3 | 9 | [/ ₄ | 0 |

Entering Ends using Menus

A threading or treadling pattern can be added from the **Warp** and **Treadling** menus.

| PC | Мас | | | | | | | | | |
|------------------------------|---|--|--|--|--|--|--|--|--|--|
| $Warp \rightarrow Fill$ | Warp \rightarrow Fill Threading | | | | | | | | | |
| Treadling \rightarrow Fill | Treadling \rightarrow Fill Treadling | | | | | | | | | |
| Setup for Warp Fill X | Fill Threading Fill Thr | | | | | | | | | |

Copying a Threading or Treadling Selection



Step One - Click on the Select Rectangle tool in the tool bar

Step Two - Click and hold down on the left mouse button and drag across the threading area. A blue box will outline the area.

| | | | | | | | | | | | | | | | | | ŀ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|] | | | | | | | | | | | | | | | | | l |
| 1 | | | | | | | | | | | | | | | | | l |
| 1 | | | | | | | | | | | | | | | | | 1 |
| 1 | | | | | | | | | | | | | | | | | 1 |
| 1 | | | | | | _ | | | | | | | | | | | 1 |
| 1 | | | | | | | | | | | | | | | | | 1 |
| 1 | | | | | | | | | | | | | | | | - | l |
| • | T | - | - | - | - | - | - | _ | - | - | - | - | - | - | - | | |

Step Three – To copy the selection , select Copy from the Edit menu or using keyboard commands (e.g., PC = Ctrl + C and Mac = Cmd + C)

Step Four – Click on the entry point of the copied selection.

| 88 | | | | | | | | |
|----|--|--|--|--|--|--|--|--|

Step Five –To add the copied selection, select **Paste** from the **Edit** menu or using keyboard commands (e.g., PC = Ctrl + V and Mac = Cmd + V)

| _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
|-----------|---|---|---|---|---|---|---|----------|---|---|---|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| \vdash | | | | | | | - | \vdash | | - | - | | | | | | | | | | | | | | _ | | | Н | | |
| ⊢ | - | | ╘ | | | | - | - | + | | _ | | | | - | | | | | | | | | | | _ | | - | | - |
| _ | | | | | | | | _ | _ | _ | | | | | | | | | | | | | | | | | | | | _ |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Г | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| \square | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| - | | | | | | | | | - | | | | | | 55 | | | | | | | | | | | | | Н | | |
| _ | | | | | | | | | _ | _ | | | | _ | ~~ | | | | | | | | | _ | | | | | | |

Filling a Tie-up – It is possible to automatically fill a tie-up with a twill tie-up. For example, for a 3/1/1/3 tie-up, fill-in the tie-up for the first treadle



| PC | Мас |
|--|--|
| Tieup $ ightarrow$ Twill Repeat | Tieup $ ightarrow$ Diagonal Repeat |
| Twill Tieup Repeats | - Tieup Twill Repeat |
| And Step up I Step down I Step down I Two Step | Step Up Step Down Step Down Treadles per repeat group |
| Apply Undo Close | Close Undo Apply |

The remaining treadles in the tie-up will fill based on the parameters chosen in the above window.



Treadling Tools

Multiple Treadles - When a Draft Requires Multiple Treadles for a Single Pick

| PC | Мас |
|---|--|
| Tieup $ ightarrow$ Allow Multipedal Treadling | Treadling \rightarrow Allow Multipedal Treadling |

Weave as Drawn In/Tromp as Writ

${\rm Treadling} \rightarrow {\rm Weave} ~{\rm As} ~{\rm Drawn} ~{\rm In}$

By choosing this command, the treadling sequence will be populated with the warp threading sequence. In the weaving community, this command may also be referred to *Tromp as Writ*.

Adding and Removing Tabby



| Without Tabby | With Tabby Added |
|---------------|------------------|
| | |

Tie-up Tools

Sinking Shed – This will adjust the draft's tie-up for a sinking shed (e.g., counterbalance) loom

Convert to Liftplan – If working with a tie-up, this will automatically redraw the treadling sequence into a liftplan for a direct tie-up or table loom.

Convert to Tieup– If working with a liftplan, this will automatically redraw the treadling sequence into a tie-up and single treadle treadling sequence.

Cloth View

The fabric views are useful for visualizing the entire draft, while still editing the draft at a larger magnification level.

Cloth menu – For both the PC and Mac versions, the view of the fabric may be changed (e.g., warp faced, interlacement, etc.)

| Cloth | Colors | Warp | Tie | |
|-------------------|---------------|----------------|-----|--|
| Warp | vn a | ₩1 | | |
| Weft | Weft Drawdown | | | |
| Color | r Drawdov | vn a | ₩3 | |
| ✓ Interl | <u>^</u> | β Ι | | |
| Rep/ | ed ^a | ₩R | | |
| Weft Faced | | <u>^</u> | ₩W | |
| Boun | d Weave | ~3 | ₩В | |
| Doub | le Weave | ^ <u>?</u> | ₩D | |
| View | Front | 73 | ₩F | |
| ✓ View | Back | 73 | ₿В | |
| Show | / Grid | 73 | ₿G | |
| ✓ Hide | Grid | ^s | ₩G | |
| Notes and Records | | | | |

Fabric Back

To view the back of the fabric, choose from the **View** menu or click on the **Back View** (PC) or **View Back** (Mac)

| PC | Мас |
|-----------------------------|------------------------------|
| View $ ightarrow$ Back View | Cloth $ ightarrow$ View Back |
| or from the menu bar | or from the menu bar |
| B | Front Back Cloth face |

Color and Color Palettes

Color Palette – For the PC version, the color palette appears to the right of the draft screen. For the Mac version, the color palette is on a floating tool bar. Click-and-drag to reposition it.



Color Bar

Above the threading and to the right of the treadling is a narrow area. This area is the color bar. By clicking in the space, a blinking cursor will appear.



Adding Color

There are three ways to add colors to a draft:

- Keyboard
- Mouse
- Menu

Keyboard Method of Entering Color

Next to each of the colors on the color palette (shown on the previous page) is a letter, number, or punctuation. Typing the character on the keyboard while the cursor is in the color bar will enter the associated color

Mouse Method of Entering Color

The top two colors on the color palette show which color will be added to the color bar on a mouse click.

- Left-click on the mouse will enter the color on the left
- Right-click or a double left-click will enter the color on the right



Click-and-drag with the left or right button to fill the color bar with a color.

To change the color in the top two boxes on the color palette using the mouse, click on any color in the palette. A left click will place the color in the left box and a right click or double click with the left button will place the color in the right box.

Menu Method of Entering Color





The **Pickup Color** tool looks like an eyedropper. It is used to select or re-select a color that appears in the warp or weft color bars. When the tool is active, the cursor becomes an eyedropper.

Position the eyedropper on the warp or weft color in the color bar you want to select. When you click with the left button on the color using pickup tool, the color becomes the main working color (upper left square).

Changing Palette Colors – PC version

By clicking on the top two colors on the color palette, the window below will appear. The color at the top on the right is the original color. As adjustments are made to the parameters, the color on the left will change.

To go back to the original color, click on the **Revert** button. To close the window and return to the color palette with the color adjusted, click on the **Close** button.



Changing Palette Colors – Mac version

By clicking on the top two colors on the color palette, a window opens with five different options.





Create a Color Gradient (Mac version only)

$\textbf{Colors} \, \rightarrow \, \textbf{Create Gradient}$

The **Create Gradient** tool allows a graded series of colors to be created.

Choose the **Start** and **End** colors by clicking and dragging a color from the color palette and dropping onto the left and right end of the gradient strip respectively. The number of unique colors and number of threads will create different effects.

When choosing the number of unique colors, the same number of matching yarns is required.

| Create Color Gradient | | | | | |
|--------------------------------|------|-------------|--|--|--|
| Start color | | End color | | | |
| | | | | | |
| 5 C Number of unique colors | | | | | |
| 60 🗘 Number of threads | | | | | |
| Blended transitions in threads | | | | | |
| Create in Palette only | | | | | |
| • Create in Warp | | | | | |
| OCreate in W | eft | Add to End | | | |
| Close | Undo | Replace All | | | |

Properties for Draft and Project

Changing the Number of Shafts and Treadles



Changing Preferences – PC version

File \rightarrow Preferences

This panel allows the standard characteristics to be changed and applied for all new drafts when **File** \rightarrow **New** is chosen. These settings do not affect drawdowns already on the screen or saved drafts. There are three different **Preferences and Initiate Setting** windows:

New Design Settings

| New Design Setting | gs Print Settings | Miscellaneo | ous Setting | js |
|--------------------|-------------------|-----------------|-------------|-----------------------|
| Shafts 🚦 | ÷ Interla | acement | ~ | Cloth display mode |
| Treadles 8 | Start up | o colors | ~ | Initial |
| Sinking shed | 🗌 Unlink | draft and colo | rs Ma | agnification |
| Simple Tieup | Weftd | rawdown | | 8 |
| O Multipedal tie | eup 🗹 Start u | p in color viev | v | |
| OLiftplan | Grid in | doth | | |

Print Settings

| ew Design Setting | gs Print Settings | Miscellaneous Se | ettings |
|---------------------|-------------------|------------------|-----------|
| Scaling mode | Set Scale 🗸 🗸 | | |
| Default ends per | 12 | ☑ Indude title | O At foot |
| Numeric if po | ssible | Include Heddle | counts |
| Include Note | s | Include Color o | ounts |

Miscellaneous Settings

| New Design Settings | Print Settings | Miscellaneous Settings |
|---|---------------------------------------|---|
| Keyboard | USA/Canada/Uk | |
| Number of Recent F | Files listed 6 | Reopen most recent file at startup |
| Left double Right click er | dick erases; rig ases; shift + rig | ht click pops up menus ght click pops up menus |

Changing Preferences – Mac version

Fiberworks \rightarrow Preferences

This panel allows the standard characteristics to be changed and applied for all new drafts when **File** \rightarrow **New** is chosen. These settings do not affect drawdowns already on the screen or saved drafts.

| Pre | Preferences | | | |
|---|--------------|--|--|--|
| | Initial Clot | h Display mode: | | |
| Shafts 8 C | Color | Interlacement ᅌ | | |
| Treadles 8 | Structure | Warp Drawdown ᅌ | | |
| Simple Tieup ᅌ | ✓ Show | / Color at Startup / thread numbering | | |
| Show grid | Starting M | lagnification 8 | | |
| Use current | Show | v rulers Scale 12 0 | | |
| Dratt Layout Color groups in initial palette | Ends pe | er olnch odm | | |
| Standard palette 🗸 🗸 | | Screen Scaled | | |
| Use 42 color palette 🗸 | | Save | | |

Notes and Records

Cloth \rightarrow Notes and Records

This menu item opens a window with three tabs:

Notes – allows entry of information for a draft and/or project. A button allows you to insert a records template. Below is the information that may be entered.

| PC | Мас |
|---|---|
| WARP DESCRIPTION | WARP DESCRIPTION |
| Warp Yarn: Count: Color: Cost, source: Warp length: Warp width: Sett: Reed: Sley: # Ends: Weight: | Warp Yarn: Count: Color: Cost, source: Warp length: Warp width: Sett: Reed: Sley: # Ends: Weight: |
| WEFT DESCRIPTION | WEFT DESCRIPTION |
| Weft yarn: Count: Color: Cost, source: Weight: | Weft yarn: Count: Color: Cost, source: Weight: |
| FINISHED PRODUCT: | FIBER CONTENT: |
| Dimensions: % shrinkage: Ends per inch: Picks per inch | Dimensions: % shrinkage: Ends per inch: Picks per inch |

Heddles used per Shaft – Shows the number of heddles used per shaft.

| | | Notes and Records | | |
|----------------------------|--------------------|-------------------|-------------|------|
| (| Weaving Notes | Heddle Counts | Colors Used | |
| Heddle counts by Shat | ft Number: | | | |
| Shaft 1 2 3 Count 4 6 6 | 4 5 6 7 6 6 6 6 | 8 3 | | |
| | | | | |
| | | | | Done |

Thread Counts by Color - Shows the use number of ends for each color in warp and weft.

| 00 | | Notes and Records | | |
|---------------|--------------------|-------------------|-------------|-------|
| | Weaving Notes | Heddle Counts | Colors Used | |
| Color Name | | HSB | Warps | Wefts |
| blue | | 240, 100, 100 | 12 | 0 |
| peacock | | 160, 100, 100 | 11 | 0 |
| chartreuse | | 79, 100, 100 | 10 | 0 |
| red | | 0, 100, 100 | 10 | 0 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Hue-Saturatio | n-Brightness (HSB) | ᅌ Colorway | | |
| | | | | Done |
| | | | | |

Float Search

Tools \rightarrow Float Search

To use **Fiberworks** to help identify excessive floats in the warp and weft, from the **Tools** menu, choose the **Float Search** selection. The PC and Mac versions perform this function in different manners.

Float Search – PC version

Tools \rightarrow Float Search

| loat Search | | × |
|--------------|--------------|-------|
| Find in Warp | Find in Weft | Close |

When completing a float search in **Fiberworks** on a PC, there are a few things to understand.

- There are separate searches for warp and weft floats as shown in the above image.
- Floats of three threads or less are ignored.
- Only the visible surface is searched. To search the other face, choose **Change Face** from the **Tie-up** menu or click the **Back View** button on the toolbar, then do warp or weft float search again.
- The longest float found is reported at the left end of the status bar, along with its location. The float is also outlined in the cloth drawdown in light cyan (see below on the right). If the cyan outline is hard to see in a color drawdown, it may be advisable to switch to a structure view.
- If the long float is currently off screen, it is scrolled into position so it's visible onscreen.



Float Search – Mac version

Tools \rightarrow Float Search

| Float Search | | | | |
|-----------------------------------|--------------|----------|------|--|
| Float In Warp | At Weft Pick | Length | Face | |
| 3 | 13 | 5 | F | |
| 3 | 27 | 5 | F | |
| 8 | 6 | 5 | F | |
| 8 | 20 | 5 | F | |
| 8 | 34 | 5 | F | |
| | | | | |
| Find floats of length 5 0 or more | | | | |
| Front Back | Se | earch Wa | irp | |
| Both | 5 | arch we | ert. | |

When completing a float search in **Fiberworks** on a Mac, there are a few things to understand.

- There are separate searches for warp and weft floats as shown in the above image.
- The minimum float length to search for can be set.
- The buttons in the lower left corner allow the float search for the front, back, or both.
- Floats found in the draft that meet or exceed the set float length will be listed. If the list is long, the list may be scrolled. The information about the float will include the following:
 - The warp end where the float is found
 - The weft pick where the float is found
 - \circ The length of the float
 - Whether the float was found on the front or the back
- By clicking a float that appears in the list, the float in the draft will be highlighted.

Turning a Draft

You may rotate a draft 90 degrees. This is called *turning a draft*. It is done for following reasons:

- Reduce the number of treadles or shafts
- Create a single shuttle weave for a compound weave where the original draft required more than one shuttle
- Change the direction of a pattern

This will not only make the threading the treadling and the treadling the threading, it will also automatically invert the tie-up





Thick and Thin Threads

There are two ways to change the width of the warp end or treadling pick.

Mouse Method – To change the width of a single warp end or weft pick, clicking on a drawing tool (the cursor will change to a pencil). Click in the space for the end.

- To make the width wider, click once
- To make the width narrower, click twice.



Menu Method – It is possible to use To define a sequence of thick and/or thin warp ends or weft picks, Using the Threading and/or Treadling menus, select the Thickness option.

| PC | Мас | |
|---|---|--|
| Warp $ ightarrow$ Thickness | Warp $ ightarrow$ Fill Thickness | |
| Treadling $ ightarrow$ Thickness | Treadling $ ightarrow$ Fill Thickness | |
| Warp Thread Thicknesses X | Fill Thread Thickness in Treadling | |
| Pattern All threads | Select a preset pattern or type in your own | |
| Thickness units | Cycle 🗘 Single thickness A 🔽 | |
| Thread A Thread B | A threads B threads C threads D threads | |
| 4 + | 4 0 4 0 4 0 | |
| OK Cancel | Undo Add to End Replace All | |
| To change the thickness of an end, click the arrow or enter the number. | To change the thickness of an end, click the arrow or enter the number. | |

| The thickness tool shown on the previous | The thickness tool shown on the previous page | |
|--|---|--|
| page will allow up to two thicknesses to be | will allow up to four thicknesses to be selected. | |
| selected. The pattern pull-down menu | The pattern pull-down menu allows the | |
| allows the following sequences to be filled: | following sequences to be filled: | |
| All Threads | Single Thickness A | |
| A-B (odd-even) | A-B (odd-even) | |
| • A-A-B-B | • A-A-B | |
| • A-B-A | • A-A-A-B | |
| • A-B-B-A | • A-A-B-B | |
| • A-B-B-B | • A-A-A-B-B | |
| • A-A-A-B | • A-A-A-B-B-B | |
| • | • A-A-A-B-B-B-B | |
| | • A-B-C | |
| | • A-A-B-C | |
| | • A-B-A-C | |
| | • A-A-B-B-C-C | |
| | • A-B-C-D | |
| | • A-B-A-C-A-D | |
| | • A-A-B-B-C-C-D-D | |
| | | |

Block Substitution

Tools \rightarrow Block Substitution

The **Block Substitution** tool allows you to substitute a weave structure into a profile draft.

Step One - First, you need to create or open a profile draft.



Step Two – From the Tools menu, choose Block Substitution

| PC | | Мас | |
|--|---|--|--|
| Block Substitution Damak weaves Double weaves Double weaves Double weaves Care weaves | A shafts and 6 treadles needed Threading ☑ Normal Tieup ● Treadling ☑ Skeleton Ties ○ Use Colors ☑ Liftplan ○ Edit Blocks No Tieup ○ Apply Cancel | Block Substitution Classic weaves Crackle - block form Threading 4 shafts Treadling 6 treadles Normal Tieup | |
| | | Cancel Preview | |
| | | | |

Step Three – A window will appear that includes block substitution options. By selecting one of the block substitution options, the window will show how many shafts and treadles are required. Click on **Apply** (PC) or **Preview** (Mac)to generate a new draft in the weave structure based on the profile draft used.

| Block Substitutions - PC | | | |
|---|---|--|--|
| Classic weaves | 2-Tied weaves (continued) | | |
| Crackle, block form | • 1:2 Extended Summer & Winter | | |
| Crackle as summer and Winter | • 1:3 Extended Summer & Winter | | |
| Crackle, twill form | • 1:4 Extended Summer & Winter | | |
| • M's and O's | • 1:2 Extended S&W Dukagang style | | |
| Overshot | • 1:3 Extended S&W Dukagang style | | |
| • Overshot, multishaft | • 1:4 Extended S&W Dukagang style | | |
| • Overshot, multishaft, balanced | • 4:2 paired-tie straight | | |
| Overshot, all tabby ground | • 6:2 paired-tie straight | | |
| Overshot, tabby ground, balance | • 4:2 paired-tie alternating | | |
| • Overshot, tabby halftone | • 6:2 paired-tie alternating | | |
| Overshot, tabby halftone, balanced | | | |
| Overshot, single unit tied | 3- and 4-Tied weaves | | |
| Overshot, paired unit tied | • Bergman | | |
| | Bergman, half blocks | | |
| Damask weaves | • Quigley, diamond | | |
| • 4-shaft damask | • Quigley, points | | |
| • 5-shaft damask | • Quigley, half blocks | | |
| • 6-shaft damask | • Single, 3-tie straight | | |
| • 8-shaft damask | • Single 3-tie, rosepath | | |
| | • Single 4-tie | | |
| Double weaves | ······· | | |
| • Double weave | I will weaves | | |
| • Double weave, paired threads | • Broken twill | | |
| • Beiderwand | • Diamond twill | | |
| • Belderwald, half blocks | • 5-thread turned twill | | |
| • 1:4 Lampas, stitched half blocks | • 4-inread turned twill | | |
| • 1:4 Lampas, suiched, half blocks | Bateman weaves | | |
| • 1.2 Lampas, stitched | • Park weave on opposites (draft 90) | | |
| • 1.2 Lampas, stitched | Park weave draft 49 style | | |
| • 1.2 Lampas, stitched broken | Park weave, draft 71 style | | |
| • 1.2 Lampas, stitched, broken | Boulevard on opposites (draft 56) | | |
| Lace weaves | Boulevard, draft 72 style | | |
| Atwater Bronson | | | |
| Bronson sport | 4-shaft weaves | | |
| • Huck blocks, lace effect | Crackle, polychrome | | |
| • Huck blocks, spots | • M's and O's | | |
| • Huck lace effect | • Overshot | | |
| Huck lace effect variant | Overshot as Summer and Winter | | |
| Huck spot | Overshot 2-block polychrome | | |
| Swedish lace | Overshot 4 block polychrome | | |
| | • 4 block Summer & Winter, alternating | | |
| 2-Tied weaves | • 4 block Summer & Winter, birdseye | | |
| • Double two-tie | • 4 block Summer & Winter, X-style | | |
| • Double two-tie, reversing | • 4 block Summer & Winter, Dukagang | | |
| Summer and Winter, alternating | Swedish lace | | |
| Summer and Winter, birdseye | | | |
| • Summer and Winter, X-style | | | |
| • Summer and Winter, Dukagang | | | |
| | | | |
| | | | |

| Block Substitutions - Mac | | |
|--|--|--|
| Classic weaves | Summer and Winter (continued) | |
| Crackle, block form | • 1:2 Extended Summer and Winter | |
| Crackle as summer and Winter | • 1:3 Extended Summer and Winter | |
| Crackle, twill form | 1:4 Extended Summer and Winter | |
| • M's and O's | • 1:2 ext'd Summer & Winter, Dukagång | |
| • Overshot | 1:3 ext'd Summer & Winter, Dukagång | |
| Overshot, multishaft | 1:4 ext'd Summer & Winter, Dukagång | |
| Overshot, multishaft, balanced | | |
| Overshot, all tabby ground | More 2-Tie weaves | |
| Overshot, tabby ground, balance | Two-color Taqueté | |
| Overshot, tabby halftone | • Diversified Plain Weave | |
| • Overshot, tabby halftone, balanced | • Double I wo-tie | |
| • Overshot, single unit fied | • Double I wo-tie, Reversing I will | |
| • Overshot, paired unit field | • Double I wo-tie, Symmetrical | |
| Damask waawaa | • 4:2 Paired Tie, straight | |
| Damask weaves | 0.2 Faired Tie, straight 4:2 Paired Tie, alternating | |
| 5-shaft damask | • 6:2 Paired Tie, alternating | |
| S-shaft damask 6 shaft damask | • 0.2 I alicu Tic, alternating | |
| 7-shaft damask | 3- and 4-Tied weaves | |
| 8-shaft damask | • Bergman | |
| - O Shurt dumusk | • Bergman, half blocks | |
| Double weaves | • Quigley, diamond | |
| Double weave | • Quigley, points | |
| • Double weave, paired threads | Quigley, half blocks | |
| Double weave, paired, weft only | • Single, 3-Tie straight | |
| Piqué and Stitched Double Cloth | • Single 3-Tie, rosepath | |
| • Piqué, figured | • Single 4-Tie | |
| Beiderwand | • Single 4-Tie, half blocks | |
| Beiderwand, half blocks | | |
| • 1:4 Lampas | Twill weaves | |
| 1:4 Lampas, stitched | • Broken twill | |
| • 1:4 Lampas, stitched, half blocks | • 1:2 Turned Twill | |
| • 1:2 Lampas, twill order | • 1:3 Turned TWIII | |
| • 1:2 Lampas, twill order, stitched | 1.2 Diamond Twill | |
| • 1:2 Lampas, broken twill order | • 1:5 diamondu 1 will | |
| • 1:2 Lampas, stitched, broken | Bateman weaves | |
| Lace weaves | Boulevard on Opposites | |
| Atwater Bronson | • Boulevard on Opposites, draft 56 | |
| Bronson spot | • Boulevard, draft 72 style | |
| Huck Paired Blocks, Lace | • Park Weave on Opposites, draft 90 | |
| Huck Paired Blocks, Spot | Park Weave, draft 49 style | |
| Huck Triple Blocks, Lace | • Park Weave, draft 71 style | |
| Huck Triple Blocks, Spot | | |
| Huck Lace effect | 4-shaft weaves | |
| Huck Lace effect variant | Crackle, polychrome | |
| Huck spot | • Overshot | |
| Swedish lace | Overshot 4 Block Polychrome | |
| | • Overshot as Summer and Winter | |
| Summer and Winter | • M's and O's, 2-Block | |
| • Summer and Winter, Alternating | • 4 block Summer & Winter, alternating | |
| • Summer and Winter, Birdseye | • 4 block Summer & Winter, birdseye | |
| • Summer and Winter, X-style | 4 block Summer & Winter, A-Style 4 block Summer & Winter Dukasårs | |
| • Summer and Winter, Dukagang | Swedish lace 2-block | |
| | | |

• Swedish lace, 2-block

Examples of Block Substitution

| PC | Мас | |
|---|--|--|
| Block substitution Summer and Winter, alternating 10-treadle tie-up Block Substitution Block Substitution Ouble two-tie Ouble two-tie, reversing Summer and Winter, alternating Summer and Winter, birdseye Summer and Winter, Winter 1:2 Extended Summer & Winter I:3 Extended Summer & Winter Apply | Block substitution Summer and Winter, alternating 10-treadle tie-up Block Substitution Summer and Winter Summer and Winter, Alternating Threading 6 shafts Treadling 10 treadles Normal Tieup | |
| Block substitution Summer and Winter, alternating 8-treadle skeleton tie-up | Cancel Preview | |
| 2-Tied weaves Double two-tie Double two-tie, reversing Summer and Winter, alternating Summer and Winter, birdseye Summer and Winter, Dukagang 1:2 Extended Summer & Winter 1:3 Extended Summer & Winter X | Block substitution Summer and Winter, alternating 8-treadle skeleton tie-up Block Substitution Summer and Winter Summer and Winter, Alternating Threading 6 shafts Treadling 8 treadles Skeleton Tieup © Cancel Preview | |

Regular tie-up vs Skeleton tie-up

Edit Block – PC version only

The editing of blocks is possible in the PC version of Fiberworks.

- Select **Blank** (at the top of the list) or weave structure from the list
- Click the **Edit Blocks** button.
- A window like the one below will appear



• In this window, the parameters of the blocks may be adjusted. Note – It is not possible to save the block edits, so be careful before clicking on **OK**.

Double Weave



Fiberworks can automatically transform a draft into a double weave pattern,

Any draft up to 8 shafts can be folded to create a double weave or double width weave

- Fold Double requires double the number of shafts and treadles in the original draft
- Tubular The rotation of the shuttle connects both sides with one shuttle used in the following order: top, bottom, top, bottom. There are no selvedges in a tubular weave.
- Separate layers Requires two shuttles

Shaft Shuffler

Fiberworks has a tool that allows the order of the shafts and the treadles in a draft to be rearranged without affecting the drawdown. The tie-up or Liftplan is automatically adjusted.

| PC | Мас |
|-----------------------------------|---|
| Tools $ ightarrow$ Shaft Shuffler | Drawing \rightarrow Shaft Shuffler Draft toolbar \rightarrow |

When you select the **Shaft Shuffler**, the mouse cursor turns into a shape with two arrowheads.

| Threading | Treadling | |
|--|---|--|
| ‡ | ∢ ▶ | |
| When the cursor is over the treading, the arrows are positioned up-and-down. | When the cursor is over the treadling, the arrowheads face side-to-side. | |
| Click on the shaft to be moved and drag it up or down to the new location. A red line will indicate the shaft being moved. Every warp end on the shaft being moved is relocated to the new position. | Click on the treadle to be moved and drag it to the left or right to the new location. A red line will indicate the treadle being moved. Every weft pick end on the treadle being moved is relocated to the new position. | |

When a draft has a liftplan, the **Shaft Shuffler** will adjust both the warp ends and liftplan simultaneously. The drawdown remains unchanged. If you click and drag within the liftplan, the threading will be adjusted also. Below is an example of a draft with a point treadling (left) with the treadles reshuffled (right) into a *walking* treadling.

| Original draft | Draft with reshuffled treadles | |
|----------------|--------------------------------|--|
| | | |
| | | |
| | | |
| | | |

Copying Drafts into Documents

$\mathsf{Edit} \to \mathsf{Copy} \, \mathsf{Image}$

To quickly and easily copy a draft from **Fiberworks** to a document (e.g., MS Word), select **Copy Image** from the **Edit** menu. This will place the entire active window into the computer's memory. Then go to the document application the draft will be inserted into and select **Paste** from the application's appropriate menu.

A couple of things about **Copy Image**

- Since it copies the content of the active window, it is possible more than the draft will be in the image.
- To capture the entire draft, it is necessary to have the entire draft in the active window. Any part of the draft that does not appear in the active window will not be copied.

Deleting and Copying Components of Drafts

Each component of a draft (e.g., threading, treadling, tie-up, colors, etc.) may be copied or deleted using the **Select All** (PC) or **Select Drafts** (Mac) feature. When selected a window opens up where components may be selected or deselected by clicking on the check boxes next to the various components. Multiple components may be selected or deselected. When selected it includes everything within the draft component. For example, if the tie-up and treadling from a draft is copied to be pasted into another draft, the entire tie-up and treadling sequence will be included.

| PC | | | Мас | |
|---|------------------------------------|---|--|---------------------------------------|
| Edit \rightarrow Select All Edit \rightarrow Select Dr | | rafts | | |
| Select All | × | Se Se | elect Draft Components | |
| Threading Tieup Warp colors Treadling Warp thickness Weft colors Color palette Weft thickness All components Invert | Select Copy Delete Cancel | All Warp Threading Warp Colors Warp Spacing Inverse | All Weft Treadling Weft Colors Weft Spacing Delete | Deselect All Tieup Color Palette Copy |

| PC | Мас | | | | | |
|---|--|--|--|--|--|--|
| Tools $ ightarrow$ Namedraft | Tools $ ightarrow$ Namedraft | | | | | |
| Namedrafts X | Namedrafts | | | | | |
| Enter a name, 8 to 40 | Type in name or phrase, 8 - 40 characters Alphabet 1 • Threads Blocks Rose • Summatrial | | | | | |
| Rose tieup ○ Star tieup Apply repeat - reverse - repeat, made symmetrical ∨ | Cancel Accept | | | | | |

Name Drafting

Name drafting is a fun way to create a design from a name, phrase, etc. **Fiberworks** allows name drafting to create four-shaft overshot designs.

- Step 1 Start with a blank drawdown window
- Step 2 Go to Tools \rightarrow Namedraft
- Step 3 Type a name or phrase into the text box. A minimum of 8 characters is required. The maximum is 40 characters. The more names or the longer the phrase, the longer the threading will become.
- Step 4 Click on Apply. This will create a draft for review.
- Step 5 Adjust the parameters and click on Apply until the desirable pattern is achieved.
- Step 6 Click on **OK** (PC) or **Accept** (Mac) the draft pattern.

Sketchpad (PC version only)

File \rightarrow New Sketchpad

Fiberworks may be used for fabric analysis and develop a draft while figuring out how fabric was created. The **New Sketchpad** feature on the **File** menu creates a unique editing mode.

By choosing New Sketchpad, a window opens with a grid. Above the grid are drawing tools.



Sketchpad Drawing Tools



Sketchpad

Using the drawing tools, it is possible to create designs on the grid.

| e | Edi | t | Ima | ge | Vi | ew | A | naly | sis | Win | dow | Н | elp | | | | | | | | | | | | _ | | |
|----|------|----------|--------------|-----|-----|----|-----|------|--------|-----|--------|------------|-----|-----|----------|----------|-----------|-----|-----|----------|---|----|----|----|-----|-------|------|
| 2 | ê | H | 8 | f | 1 | X | b | e | | | 2 | h | 0 | N | | 1 |] (| | Q | 0 | 2 | ê | ₽ | ρ | 123 | N2 | |
| | Sket | chp | ad2 | | | | | | | | | | | | | | | | | | | | F | _ | | | × |
| | ш | TT | ПТ | TT | TT | Ш | П | TT | 111 | | П | TT | ш | П | TT | TT | ПТ | TT | ш | тп | | TT | TT | П | TT | III | TT. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | ± |
| | H | | H | | | | | | | | - | | H | | | - | | | | | | | | | | | H |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Ħ |
| HF | ΗT | $+ \Box$ | ΗŦ | H | HF | НП | + T | + - | $+\Pi$ | | - | $+ \Gamma$ | | | + - | - | HT | +F | ΗT | $+\Pi$ | | | | НП | +T | HT | H |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Ħ |
| H | H | + | H | + + | + - | НП | + | | | | - | | | | | - | | + | HT | + - | | | | | + | + + + | H |
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| | +++ | ++- | \mathbb{H} | ++ | ++- | HH | ++ | +++ | +++ | | | | | | | - | +++ | ++- | +++ | ++ | | | | | ++ | +++ | н |
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| | +++ | | HH | ++ | | | ++ | - | | | - | ++- | | | | - | \square | ++- | H | | | | | | | | H |
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| | | | H | | | | | - | _ | | | | | | | | | | | - | | _ | | | | | H |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | ± |
| | +++ | ++- | \mathbb{H} | ++ | ++- | HH | ++ | +++ | +++ | | +++ | ++ | | ++ | | ++ | +++ | ++- | +++ | ++ | | | | | ++ | +++ | н |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | ± |
| + | ΗŦ | + - | ΗŦ | Ŧ | H | H | H | 1 | | | +++ | Ŧ | HT | H | H | $+ \Box$ | | + - | HT | H | | | | | | H | H |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Π |
| | ΗT | $+ \Box$ | ΗŦ | +T | + - | нП | + T | + - | | | $+\Pi$ | $+ \Gamma$ | нП | + T | + - | + T | | + - | нП | $+\Pi$ | | | | нП | + | HT | H |
| | | | | | | | | | | | | | | | | | | | | 11 | | | | | | | Ξ |
| | ΗT | + T | ΗŦ | ΗŦ | ΗF | нП | +T | + - | + T | | $+\Pi$ | $+ \Gamma$ | нП | +T | $+ \Box$ | +T | HT | ΗF | нП | $+\Pi$ | | HT | | ΗΠ | +T | HT | H |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | Η |
| H | ITT | T | ITT | H | H | | H | T | | | | T | H | H | Ŧ | | | IT | H | T | | | | | T | ITT | H, |
| _ | | | ш | | | ш | | | | | | | ш | | | | ш | | ш | | | | | | | | ш |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | × .: |

When the design is complete, go to **Analysis** \rightarrow **Make Drawdown**. The window below will appear.

| Fabric Analysis | × |
|-----------------|-------------------|
| Pegplan | Make New Drawdown |
| Sinking shed | Undata Draudaum |
| Weft drawdown | opdate brawdown |
| Use colors | Cancel |

Click on **Make New Drawdown** and a profile draft will be created.



Use **Tools** \rightarrow **Block Substitution** to create a weaving draft from the profile draft.

Printing

Drafts and components of drafts may be printed. *Printing is also a way to get the threading, tie-up, and treadling in numbers.* Below are the PC and Mac screens that appear when the print command is selected from the **File** menu.

PCs - File \rightarrow Print Preview



$Macs\text{ - File } \rightarrow \text{ Print}$



Network Drafts

Using the **Freehand Draw** tool, draw a curving line in the threading and/or the treadling area.



Warp \rightarrow Redraw on Network



| PC | Мас |
|---|---|
| Redraw On Network No reduction Telescope Digitize No rollover No network Reduce to: 8 Shafts 12 Shafts 16 Shafts 24 Shafts 32 Shafts Other Set initial height and style 2 3 4 5 6 8 OLeft Right Opoint Apply Done | No reduction Set result to Set result to Style of Initial Height of the Initial Height of the Initial Apply Accept Cancel |

Adjust the parameters of the network components and click **Apply**.



Integrated Threadings and Treadlings

Fiberworks provides the ability to integrate threading and treadling sequences.

Start with a threading or treadling sequence



Warp \rightarrow Parallel Repeat

Treadling \rightarrow Parallel Repeat

| PC | | Мас |
|-----------------------|-------|---|
| Parallel Threading | × | Make Parallel Threading |
| Add shafts above | Apply | Add shafts above shafts shift by Extended parallel 2 |
| O Extended parallel | Undo | Three-way parallel Also duplicate colors and spacing |
| shafts shift by 4 🌲 🧃 | Close | Close Undo Apply |

Selecting Add shafts above or Add treadles right (PC) or Add extra treadles (Mac), the original sequence is duplicated by adding shafts above the original sequence for the threading or adding treadles to the right.



Selecting **Extended parallel**, the original sequence is interleaved with the same sequence without increasing the number of shafts or treadles, but offset by the number in the **shafts shift by** box.

