

DIG 540 – Fall 2015

Final Project Draft

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Theme: “Warp&Weave” *Simple Twill Weaves*

This exhibit is intended to document simple twill weave drafts. They are intended to give new and experienced weavers access to simple twill weave drafts in an easily understood format. Weavers will be able to utilize the information for inspiration or as a guide to create their own designs. The exhibit is designed in a way that weavers will be able to add their own version of the simple twill weavings to the appropriate pages.

Definitions:

Weaving – The process of making cloth by passing crosswise threads over/under lengthwise threads

Warp – Lengthwise threads that are taught. Warp is threaded through heddles from the back beam on a loom to the cloth (front) beam. The number of warp threads per inch is indicated by the term: EPI (ends per inch)

Weft – The crosswise threads that pass over and under the warp threads. Measuring the warp threading is: PPI (picks per inch)

Harnesses or Shafts – Frames that contain many heddles in different sequences or drafts. Most looms have harnesses in multiples of 2, (example: 2, 4, 8, 16, and so on). The most common for new weavers is 4 or 8.

Heddles – Strings or thin metal rods strung on the harnesses that are slotted in the middle lengthwise. Their purpose is to lift the threads in different sequences. Example: if the threading sequence has all the #1 threads going through the heddles on the #1 harness all of the #2 threads pass through the #2 heddles on the #2 harness ... Then when you raise the #1 harness (shaft), all of the #1 threads will rise, and the #2 threads will lower. When you raise the #2 harness, all of the #2 threads will rise and the #1 threads will lower...and so on.

Tie-up: Connecting a harness to a treadle. More than one harness can be tied up to a treadle. The tie-up sequence is a major factor in altering designs.

Treadle: A peddle that connects to one or more harnesses. On a 4 harness loom, there must be at least 4 treadles, but could have many more. Most have 6 treadles; 4 for the design, and 2 for a plain weave.

Treadling Sequence = The sequence that you depress each treadle. This action sequence creates the patterns you see created by the weft going between the raised and lowered warp threads.

Plug-ins: Exhibit Builder, Posters, Simple Pages, and Contribution

Add-On Plug-ins: Weavegraph and Simple Weave Metadata

Major Sections and Pages:

Homepage: The homepage for Warp&Weave *Simple Weave Drafts*, will consist of photographs (png thumbnails) of simple weave structures in a collage format using Simple Pages and Posters to design.

Exhibits: Because each simple weave draft can produce multiple designs, each draft will have its own exhibit. These will utilize the Exhibit Builder plug-in. Each page (or design) will include the custom designed Simple Weave Metadata plug-in and a Weavegraph. (See descriptions below.)

The Exhibits will include the following threading patterns: Straight, Point, Birdseye, and M&W. The exhibits will begin with the most basic drafts, tie-ups, and treadling sequences, increasing in complexity towards more complicated tie-ups and treadling, using the same threading sequences.

Contributed Pages: Viewers can use the site for inspiration to create their own weavings. Then they will be able to submit their own photo and metadata onto un-public pages. After I review the pages, I will add them to the appropriate exhibit pages.

Browse: You can browse the exhibit pages by clicking on a photo located in the Poster Homepage or in the poster banner at the top of each page.

Plug-in Creation: Omeka does not offer specialized plug-ins that include the types of data necessary for this project. I have created two that will make the site more functional, contain necessary data that will make the pages understandable by weavers and document each weave. Without these plug-in additions, the pages would just be photos and names, without supporting data that give them meaning.

Weavegraph Plug-in: This plug-in consists of a Gliffy graph that tells the viewer the warp sequence (horizontal), the weft treadling sequence (vertical), and the tie-up sequence (upper right)



