Threaded-in card weaving is the variant of card weaving where the pattern is coded into the individual cards and the deck of cards or each of a few sub-decks of cards are turned together as a set.

Setup

Here are some basic assumptions

- Your cards have four holes punched in a square and are labeled A, B, C, D.
- On the loom, the labeled side of the cards faces to your left.
- Turning the cards forwards turns them away from you.
- Turning the cards backwards turns them towards you.
- Cards threaded from the right to the left are S-threaded (Card forms the letter S when the far side is tilted to the left).
- Cards threaded from the left to the right are Z-threaded (Card forms the letter Z when the far side is tilted to the right).

S and Z Threading

When cards turn forwards or backwards, they make a diagonal stitch to the left or the right depending on their threading.

<table>
<thead>
<tr>
<th></th>
<th>Forwards</th>
<th>Backwards</th>
</tr>
</thead>
<tbody>
<tr>
<td>S-threaded</td>
<td>↗</td>
<td>↙</td>
</tr>
<tr>
<td>Z-threaded</td>
<td>↙</td>
<td>↗</td>
</tr>
</tbody>
</table>
Stitch Color

The color of a stitch depends on the color of the thread that goes over the top when the card is turned. Read the pattern from the bottom up and turn the cards forwards so A, B, C, D go over the top in that order.

<table>
<thead>
<tr>
<th>Color going over the top</th>
<th>D</th>
<th>C</th>
<th>B</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Card Numbers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8 turns forwards

4 turns forwards, 4 turns backwards

Putting S and Z Threading together with Stitch Color

<table>
<thead>
<tr>
<th>Threading</th>
<th>S S S S Z Z Z Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>D C B A</td>
</tr>
<tr>
<td>going over the top</td>
<td>1 2 3 4 5 6 7 8</td>
</tr>
<tr>
<td>Card Numbers</td>
<td></td>
</tr>
</tbody>
</table>

8 turns forwards

4 turns forwards, 4 turns backwards

How to draft patterns

1. Draw your pattern on graph paper by coloring in the boxes. You can have at most 4 colors per horizontal row.
2. For each column, label the bottom box as A and see if you can assign A B C D in order backwards and forwards to fill in the rest of the column. When you reverse direction, you repeat the letter you just used. Example: ABCDDCBA
3. For the threads which have a definite slant, draw a diagonal in the box to match the slant.
4. A set of ABCD rows shows your threading diagram. Use the S and Z threading shown by the slants. Use the pattern of forwards and back shown in each column.
Example: Drafting a primproms\textsuperscript{1} pattern

1) Draw picture

2) Label each column with A B C and D. See if all columns have the same pattern.

3) Holes in cards

4) The pattern is all forwards. Use all S or Z threading.

You try it: Label each column with A B C and D and find the pattern

Photo and weaving by Eqos\textsuperscript{1}
Note: this picture is actually an inkle weave.

Photo, pattern, and weaving by Aibell
Example: Drafting a different primproms\(^1\) pattern

In this primproms, the horizontal parts are thicker than the vertical parts. Picture by Eqos\(^1\)

1) Draw picture

2) Label each column with A, B, C, and D. See if all columns have the same pattern.

3) For the threads which have a definite slant, draw a diagonal in the box to match the slant.

4) The pattern is 4 forwards, 4 back. Use all Z threading.
Drafting Threaded-In Table Weaving Patterns

You try it: For the threads which have a definite slant, draw a diagonal in the box to match the slant.

You try it: Drafting a fluez\textsuperscript{1} pattern

2) Label each column with A B C and D. See if all columns have the same pattern.

3) For the threads which have a definite slant, draw a diagonal in the box to match the slant.

4) What is the pattern?

Threading

<table>
<thead>
<tr>
<th>Card Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>A</td>
</tr>
<tr>
<td>B</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>D</td>
</tr>
</tbody>
</table>

Photo, pattern, and weaving by Aibell

Pictures and weaving by Eqos\textsuperscript{1}
You try one: Drafting a derima\textsuperscript{1} pattern

1. Draw picture
2. Label each column with A B C and D. See if all columns have the same pattern.
3. For the threads which have a definite slant, draw a diagonal in the box to match the slant.
4. Combine turning and threading with the bottom 4 rows to see your pattern.

You try one: Drafting a strantivitus\textsuperscript{1} pattern

1. Draw picture
2. Label each column with A B C and D. See if all columns have the same pattern.
3. For the threads which have a definite slant, draw a diagonal in the box to match the slant.
4. Combine turning and threading with the bottom 4 rows to see your pattern.

You try one: Drafting a suago\textsuperscript{1} pattern

1. Draw picture
2. Label each column with A B C and D. See if all columns have the same pattern.
3. For the threads which have a definite slant, draw a diagonal in the box to match the slant.
4. Combine turning and threading with the bottom 4 rows to see your pattern.

You try one: Drafting a themesh\textsuperscript{1} pattern

1. Draw picture
2. Label each column with A B C and D. See if all columns have the same pattern.
3. For the threads which have a definite slant, draw a diagonal in the box to match the slant.
4. Combine turning and threading with the bottom 4 rows to see your pattern.
You try it: Drafting a pattern from a photo

1. Draw picture
2. Label each column with A B C and D. See if all columns have the same pattern.
3. For the threads which have a definite slant, draw a diagonal in the box to match the slant.
4. Combine turning and threading with the bottom 4 rows to see your pattern.

A more difficult pattern: Waves

The patterns done thus far had all the cards turn together as one deck. The next pattern has two decks and is thus more difficult. I show how I drafted a pattern for it. This pattern is related to the Ram’s Horn.

The turning pattern isn't working. See the marked row (←) where no card works? One solution is to add an identical row there. The threading isn't working either. See the marked column (↑) where the threading changes directions but the cards are still turning forwards? There is not an easy solution to this! The photo has smoother edges and the middle looks like interlocking rounded squares so I’ll try again using that idea.
Will this new wave work? I needed to add two rows between each wave so they fit together.

1) Draw picture.

2) Label each column with A B C and D. Notice the middle two rows (marked ↑) are different.

3) For the threads which have a definite slant, draw a diagonal in the box to match the slant.

4) The pattern is 4 forwards, 4 back for the unmarked cards and all forwards for the marked cards (6 and 7). Use either all Z or all S for the cards without a definite threading.

Since the marked cards always go forwards, they will eventually built up twist. You can release twist using fishing swivels or by periodically untying those cards.
References

1. Eqos eqos.deviantart.com
2. Emortalcoil emortalcoil.deviantart.com
3. Mim mimbles.com
4. All other pictures drawn by Aibell

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