PEBBLE WEAVE ON A 4-SHAFT LOOM

WARPING
For the borders wind 4 Brown and 8 Coral single warps in multiples of 4 as the diagram. For the pattern area wind a LIGHT and a DARK warp together for the required number. As the pattern graph has 32 squares for the pattern you must wind 32 Dark and 32 Light warps. There must be the same number of double warps as the number of squares on the chart. Warp with a cross and tie to the back roller beam. The reed is not used. The above threading will produce a band with a DARK background and a LIGHT pattern and pebbles. It will have a double border.

TO WORK PLAIN PEBBLE WEAVE.

WEAVING A PATTERN
For Pebble Weave the pattern must sometimes be picked up on every row according to the chart. The Light warps are to the RIGHT of the Dark warps. When picking up the pattern warps you must always drop its complementary partner. When the pattern indicates a LIGHT warp then you drop the DARK partner and when the pattern has a DARK warp you must drop the LIGHT partner.

Shafts 1 and 2 raise all the LIGHT warps and Shafts 3 and 4 raise all the DARK warps.

PICKING UP THE PATTERN
PEBBLE SHED 1 - Open Shafts 2,4. Place your hand in the shed and hold the warps including the border. While holding these warps raise Shaft 3 for DARK pick-up or Shaft 1 for a LIGHT pick-up. Close Shafts 2,4 and pick-up the pattern. Weft from LEFT to RIGHT through the new shed.

PATERN SHED - Open Shafts 3,4. Hold the warps then open Shafts 1,2. Close Shafts 3,4. Pick up the pattern according to the chart. Weft from RIGHT to LEFT through the new shed.

PEBBLE SHED 2 - Open Shafts 1,3. Hold the warps then open Shaft 4 for DARK pick-up or Shaft 2 for a LIGHT pick-up. Close Shafts 1,3 and pick up the pattern. Weft from LEFT to RIGHT through new shed. Alternate the Pattern Shed with Pebble Shed 1 and Pebble Shed 2.

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PEBBLE WEAVE ON A 4-SHAFT LOOM

WEAVING A BAND WITH A DARK BACKGROUND AND LIGHT PATTERN

Adapted from a pre-Columbian textile
PEBBLE WEAVE ON A 4-SHAFT LOOM

WEAVING A BAND WITH A DARK BACKGROUND AND LIGHT PATTERN

WARPING
For the borders wind 4 Blue, 8 Light Blue and 4 Blue single warps.
For the pattern area 28 Coral and 28 White warps are wound together.
PEBBLE WEAVE ON A 4-SHAFT LOOM

WEAVING A BAND WITH A LIGHT BACKGROUND AND A DARK PATTERN

WARPING
For the borders wind 4 Coral and 8 Brown single warps in multiples of 4 as the diagram. For the pattern area wind a LIGHT and a DARK warp together for the required number. As the pattern graph has 32 squares for the pattern you must wind 32 Dark and 32 Light warps. There must be the same number of double warps as the number of squares on the chart. Warp with a cross and tie to the back roller beam. The reed is not used. The above threading will produce a band with a LIGHT background and a DARK pattern and pebbles. It will have a double border.

TO WORK PLAIN PEBBLE WEAVE.
PEBBLE SHED 1 - (There is a Dark warp at the right edge of the pattern area shown on the graph as a DARK square). Shafts 2 and 4 -- Weft from LEFT to RIGHT.
PATTERN SHED - Shaft 3 and Shaft 4 -- Weft from RIGHT to LEFT.
PEBBLE SHED 2 - (Light warp at the right edge) Shafts 1 and 3--Weft from LEFT to RIGHT.
Alternate Pattern Shed with Pebble Shed 1 and Pebble Shed 2.

WEAVING A PATTERN
For Pebble Weave the pattern must sometimes be picked up on every row according to the chart. The Dark warps are to the RIGHT of the Light warps. When picking up the pattern warps you must always drop it’s complementary partner.
When the pattern indicates a LIGHT warp then you drop the DARK partner and when the pattern has a DARK warp you must drop the LIGHT partner.
Shafts 1 and 2 raise all the DARK warps and Shafts 3 and 4 raise all the LIGHT warps.

PICKING UP THE PATTERN
PEBBLE SHED 1 - Open Shafts 2,4. Place your hand in the shed and hold the warps including the border. While holding these warps raise Shaft 1 for A DARK pick-up or Shaft 3 for a LIGHT pick-up.
Close Shafts 2,4 and pick-up the pattern.
Weft from LEFT to RIGHT through the new shed.

PATTERN SHED - Open Shafts 3,4. Hold the warps then open Shafts 1,2. Close Shafts 3,4. Pick up the pattern according to the chart. Weft from RIGHT to LEFT through the new shed.

PEBBLE SHED 2 - Open Shafts 1,3. Hold the warps then open Shaft 2 for DARK pick-up or Shaft 4 for a LIGHT pick-up.
Close Shafts 1,3 and pick up the pattern. Weft from LEFT to RIGHT through new shed. Alternate the Pattern Shed with Pebble Shed 1 and Pebble Shed 2.

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PEBBLE WEAVE ON A 4-SHAFT LOOM

WEAVING A BAND WITH A LIGHT BACKGROUND AND DARK PATTERN

© Elwyn Kenn 2013
PEBBLE WEAVE ON A 4-SHAFT LOOM

WEAVING A BAND WITH A LIGHT BACKGROUND AND DARK PATTERN

WARPING
For the borders wind 12 Coral single warps.
For the pattern area 32 Brown and 32 White warps are wound together.
PEBBLE WEAVE ON A 4-SHAFT LOOM
WEAVING A BAND WITH A LIGHT AND DARK BACKGROUND

WARPING
For the borders wind 28 Coral and 8 Tan single warps.
For the pattern area 36 Navy and 36 White warps are wound together.
PEBBLE WEAVE ON A 4-SHAFT LOOM
WEAVING A BAND WITH A LIGHT AND DARK BACKGROUND

Adapted from a pre-Columbian textile

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PEBBLE WEAVE WITH SINGLE BORDERS

WARPING
For the borders wind 4 Navy, 16 Coral and 4 Dark Coral single warps in multiples of 4 as
the diagram above. For the pattern area wind 24 White and 24 Navy warps together.
There must be the same number of double warps as the number of squares on the chart.
Warp with a cross and tie to the back roller beam. The reed is not used.

TO WORK PLAIN PEBBLE WEAVER.
PEBBLE SHED 1 - (Light warp at the right edge) Open Shafts 1,2. Hold the border warps
on a stick. Close Shafts 1,2 then open Shafts 2,4. Hold the pattern warps on a second
stick. Push both sticks back toward the heddles, lift the sticks and pass the weft from LEFT
to RIGHT through the new shed.
PATTERN SHED - Shafts 3,4 -- Weft from RIGHT to LEFT.
PEBBLE SHED 2 - (Dark warp at the right edge) Open Shafts 1,2. Hold the border warps
on a stick. Close Shafts 1,2 then open Shafts 1,3. Hold the pattern warps on a second stick.
Push both sticks back toward the heddles, lift the sticks and pass the weft from LEFT to
RIGHT.
Alternate the Pattern Shed with Pebble Shed 1 and Pebble Shed 2.

WEAVING A PATTERN
Work as for Pebble Weave on a 4-shaft loom. (Weaving a band with a dark background)

PICKING UP THE PATTERN
PEBBLE SHED 1 - Open Shafts 1,2. Hold the border warps on a stick. Close Shafts 1,2.
Open Shafts 2,4 and place your hand in the shed and hold the pattern warps. While
holding these warps raise Shaft 3 for a DARK pick-up or Shaft 1 for a LIGHT pick-up.
Close Shafts 2,4 and while holding the pattern warps pick-up the pattern according to the
chart remembering to drop the complementely partner.
Weft from LEFT to RIGHT through the new shed including the border warps.

PATTERN SHED - Open Shafts 3,4. Hold the warps then open Shafts 1,2. Close Shafts 3,4.
Pick up the pattern according to the chart. Weft from RIGHT to LEFT through the new
shed.

PEBBLE SHED 2 - Open Shafts 1,2. Hold the border warps on a stick. Close Shafts 1,2 then
open Shafts 1,3. Hold the pattern warps and raise Shaft 4 for DARK pick-up or Shaft 2 for
a LIGHT pick-up.
Close Shafts 1,3 and pick up the pattern. Weft from LEFT to RIGHT through new shed.
Alternate the Pattern Shed with Pebble Shed 1 and Pebble Shed 2.
Because the tension of the single border is greater than the pattern area these threads may
need further tensioning by hanging a weight on the pattern threads behind the heddles.
PEBBLE WEAVE WITH SINGLE BORDERS

WEAVING A BAND WITH A DARK BACKGROUND AND A LIGHT PATTERN

Adapted from patterns by Cason and Cahlander
(The Art of Bolivian Highland Weaving 1976)

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PEBBLE WEAVE WITH SINGLE BORDERS

WARPING
For the borders wind 4 White, 8 Green and 8 Pink wound together, 4 White single warps. For the pattern area wind 16 White and 16 Black warps together. There must be the same number of double warps as the number of squares on the chart. Warp with a cross and tie to the back roller beam. The reed is not used.

TO WORK PLAIN PEBBLE WEAVE.
PEBBLE SHED 1 - (Dark warp at the right edge) Open Shafts 1,2. Hold the border warps on a stick. Close Shafts 1,2 then open Shafts 2,4. Hold the pattern warps on a second stick. Push both sticks back toward the heddles, lift the sticks and pass the weft from LEFT to RIGHT through the new shed.
PATTERN SHED - Shafts 3,4 -- Weft from RIGHT to LEFT.
PEBBLE SHED 2 - (Light warp at the right edge) Open Shafts 1,2. Hold the border warps on a stick. Close Shafts 1,2 then open Shafts 1,3. Hold the pattern warps on a second stick. Push both sticks back toward the heddles, lift the sticks and pass the weft from LEFT to RIGHT.
Alternate the Pattern Shed with Pebble Shed 1 and Pebble Shed 2.

WEAVING A PATTERN
Work as for Pebble Weave on a 4-shaft loom. The Dark warps are to the RIGHT of the Light warps.

PICKING UP THE PATTERN
PEBBLE SHED 1 - Open Shafts 1,2. Hold the border warps on a stick. Close Shafts 1,2. Open Shafts 2,4 and place your hand in the shed and hold the pattern warps. While holding these warps raise Shaft 1 for a DARK pick-up or Shaft 3 for a LIGHT pick-up. Close Shafts 2,4 and while holding the pattern warps pick-up the pattern according to the chart remembering to drop the complementary partner. Weft from LEFT to RIGHT through the new shed including the border warps.

PATTERN SHED - Open Shafts 3,4. Hold the warps then open Shafts 1,2. Close Shafts 3,4. Pick up the pattern according to the chart. Weft from RIGHT to LEFT through the new shed.

PEBBLE SHED 2 - Open Shafts 1,2. Hold the border warps on a stick. Close Shafts 1,2 then open Shafts 1,3. Hold the pattern warps and raise Shaft 2 for DARK pick-up or Shaft 4 for a LIGHT pick-up. Close Shafts 1,3 and pick up the pattern. Weft from LEFT to RIGHT through new shed. Alternate the Pattern Shed with Pebble Shed 1 and Pebble Shed 2.
PEBBLE WEAVE WITH SINGLE BORDERS

Begin with Pebble Shed 2

Repeat

Adapted from a pattern by Marijke van Epen
(The Unknown Tablet Weaving 2002)

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3-COLOUR SINGLE FACED PEBBLE WEAVE

WARPING
For the borders wind 16 Navy single warps.
For the pattern area 32 Navy, 32 White and 32 Red warps are wound together.

WEAVING A PATTERN
Shaft 1 and Shaft 2 alternate for the borders and are held on a stick. The pattern is picked up on every row.
1ST PATTERN ROW
Open Shaft 1 and hold the border warps on a stick
Open Shafts 1,2,3 one at a time and select the warps on a separate stick for each colour according to the chart. Take care not to twist the warps when picking up.
Push the 4 sticks back toward the heddles. Close the shafts, raise the sticks and pass the weft through the new shed.
2ND PATTERN ROW
Open Shaft 2, hold the border warps on a stick. Pick up the warps from Shafts 1,2,3 as for the 1st pattern row.

Adapted from a pattern by Marijke van Epen (The Unknown Tablet Weaving)
**WARPing**
For the borders wind 12 Navy single warps.
For the pattern 22 Navy, 22 White, 22 Coral and 22 Gold warps are wound together.

**WEAVING A PATTERN**
Shaft 1 and Shaft 2 alternate for the borders and are held on a stick. The pattern is picked up on every row.

1ST PATTERN ROW  
Open Shaft 1 and hold the border warps on a stick
Open Shafts 1,2,3 and 4 one at a time and select the warps on a separate stick for each colour according to the chart. Take care not to twist the warps when picking up.
Push the 5 sticks back toward the heddles. Close the shafts, raise the sticks and pass the weft through the new shed.

2ND PATTERN ROW  
Open Shaft 2, hold the border warps on a stick. Pick up the warps from Shafts 1,2,3 and 4 as for the 1st pattern row.
4-COLOUR SINGLE FACED PEBBLE WEAVE

WARPING
For the borders wind 4 Coral and 8 Navy single warps.
For the pattern 30 Navy, 30 White, 30 Coral and 30 Gold warps are wound together.
This pattern has long floats on the back and is best sewn to a fabric as a decoration.

Pattern adapted from Double -Woven Treasures from Old Peru 1985
(Adele Cahlander and Suzanne Baizerman)
COMPLEMENTARY WARP TWILL
ON A 4-SHAFT LOOM

WARPING

For the borders wind 12 Pink and 12 Blue single warps. Wind borders in multiples of 4. For the pattern area wind LIGHT and DARK warps together for the required number of squares on the pattern graph. This pattern has 34 squares. There must be the same number of double warps as the number of squares on the chart. Warp with a cross and tie to the back roller beam. The reed is not used. The LIGHT warps are to the RIGHT of the DARK warps. When picking up the pattern warps you must always drop the complementary partner. Working with alternate ODD and EVEN rows will produce a band with single borders. Shafts 1 and 3 raise all the LIGHT warps and Shafts 2 and 4 raise all the DARK warps.

PICKING UP THE PATTERN

For Complementary Warp Twill the pattern must be picked up on every row. Begin with the 1st row (ODD row) with the weft from LEFT to RIGHT.

1st Row. ODD ROW
Open Shafts 2, 4 (DARK warps). Hold the warps then open Shafts 1, 3 (LIGHT warps). Close Shafts 2, 4. Pick up the pattern according to the chart. Weft from LEFT to RIGHT through the new shed.

2nd Row. EVEN ROW
Open Shafts 1, 3 (LIGHT warps). Hold the warps then open Shafts 2, 4 (DARK warps). Close Shafts 1, 3. Pick up the pattern according to the chart. Weft from RIGHT to LEFT through the new shed.
COMPLEMENTARY WARP TWILL
ON A 4-SHAFT LOOM
COMPLEMENTARY WARP TWILL
ON A 4-SHAFT LOOM

WARPING
For the borders wind 8 Blue, and 8 Red single warps
For the pattern area 36 Black and 36 white are wound together.
TO WEAVE A PLAIN DARK BACKGROUND
2 shuttles are used, a Dark shuttle weaves from the LEFT, a Light shuttle from the RIGHT.
Odd numbered rows (1,3,5 ---) are Dark LINE rows.
Even numbered rows (2,4,6---) are Light SPACE rows.

LINE (ODD numbered row) - SHAFT 1. Pass the dark weft from LEFT TO RIGHT. Interlock with light weft at right.
SHAFT 2. Dark weft RIGHT TO LEFT.

SPACE (EVEN numbered rows)) - SHAFTS 1,2,3 Light weft from RIGHT TO LEFT. Interlock with dark weft at left.
SHAFTS 1,2,4 Light weft left LEFT TO RIGHT.
End with a LINE row. Next row is a SPACE row ready to begin pattern pick-up.

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TO BEGIN PATTERN PICK-UP
The pick-up is always PAIRS of warps. Pick-up starts with a space row.

**SPACE** - (EVEN) - (LIGHT weft).
Shafts 1, 2 - Pick-up DARK pairs according to the diagram. Insert a stick. Close Shafts 1,2.
Shaft 3. Push the stick back toward the heddles, the lower layer drops down.
Pass LIGHT weft RIGHT TO LEFT through the lower shed below. Interlink the Light and Dark wefts. Leave the stick under the picked up warps.
Shaft 4. The stick is under the picked up warps. The lower layer drops down.
Pass the LIGHT weft LEFT TO RIGHT through the lower shed. Interlink the Light and Dark wefts. Remove the stick and beat.

**LINE** - (ODD) - (DARK weft).
Shafts 3,4 - Pick-up LIGHT pairs as diagram. Insert a stick. Close shafts 3,4.
Shaft 1. Push the stick back toward the heddles, the lower layer drops down.
Pass DARK weft LEFT TO RIGHT through the lower shed. Interlink the Dark and Light wefts. Leave the stick under the picked up warps.
Shaft 2. The stick is under the picked up warps. The lower layer drops down. Pass the DARK weft RIGHT TO LEFT through the lower shed. Interlink the Dark and Light wefts. Remove the stick and beat.
BALANCED DOUBLE WEAVE ON A 4-SHAFT LOOM

Row 1 - Shaft 1 then Shaft 2  

LINE - Dark weft  (each row represents 2 passes of the wefts)

Row 2 - Dark pick-up - Light weft  

SPACE

Row 3 - Light pick-up - Dark weft  

Row 4 - Dark pick-up - Light weft  

Row 5 - Light pick-up - Dark weft  

Row 6 - Dark pick-up - Light weft  

Row 7 - Light pick-up - Dark weft  

Row 8 - Dark pick-up - Light weft  

Row 9 - Shaft 1 then Shaft 2 - Dark weft  

Row 10 - Shafts 123 then Shafts 124 - Light weft  

Row 11 - Shaft 1 then Shaft 2 - Dark weft  

Row 12 - Shafts 123 then Shafts 124 - Light weft  

Row 13 - Light pick-up - Dark weft  

Row 14 - Dark pick-up - Light weft  

Row 15 - Light pick-up - Dark weft
**BALANCED DOUBLE WEAVE ON A 4-SHAFT LOOM**

**SPACE**  
Pick up Dark pairs - Light weft, 2 passes

**LINE**  
Pick up Light pairs - Dark weft, 2 passes

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Row 29 - Shafts 134 then Shafts 234 - Dark weft

Row 30 - Shaft 3 then Shaft 4 - Light weft

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BALANCED DOUBLE WEAVE ON A 4-SHAFT LOOM

WARPING
For a Dark Background  Wind 2 Dark then 2 Light threads (Pearl Cotton 10/2) for the number of warp threads required for the pattern, ending with 2 dark threads. To estimate the number of warps required for each pattern you must count the lines on the graph and warp 2 Dark warps for each line and 2 Light warps for each space between. In this pattern there are 16 lines and 15 spaces (32 Dark and 30 light warps). Thread the heddles as the diagram and sley 4 warps in each dent of a 10 dent reed. The last pair of dark warps are threaded by themselves in the next dent.
BALANCED DOUBLE WEAVE ON A 4-SHAFT LOOM

Row 1 - Shaft 1 then Shaft 2

**LINE** - Dark weft  (each row represents 2 passes of the wefts)

**SPACE**

Row 2 - Dark pick-up - Light weft

Row 3 - Light pick-up - Dark weft

Row 4 - Dark pick-up - Light weft

Row 5 - Light pick-up - Dark weft

Row 6 - Dark pick-up - Light weft

Row 7 - Light pick-up - Dark weft

Row 8 - Dark pick-up - Light weft

Row 9 - Light pick-up - Dark weft

Row 10 - Dark pick-up - Light weft

Row 11 - Light pick-up - Dark weft

Row 12 - Dark pick-up - Light weft

Row 13 - Light pick-up - Dark weft

Row 14 - Dark pick-up - Light weft

Row 15 - Light pick-up - Dark weft

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# BALANCED DOUBLE WEAVE ON A 4-SHAFT LOOM

**SPACE**  
Pick up Dark pairs - Light weft, 2 passes

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**LINE**  
Pick up Light pairs - Dark weft, 2 passes

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**Row 25** - Shaft 1 then Shaft 2 - Dark weft

**Row 26** - Shafts 123 then Shafts 124 - Light weft

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