ArahWeave®  Jacquard Quick Start

# CONTENTS

Note
Before studying jacquard design with ArahWeave, please read the dobby section.
Drawing of the weave, changing colors of the yarns, warp or weft pattern, fabric density, yarn diameter, and saving the fabric or fabric simulation is the same for dobby and jacquard.
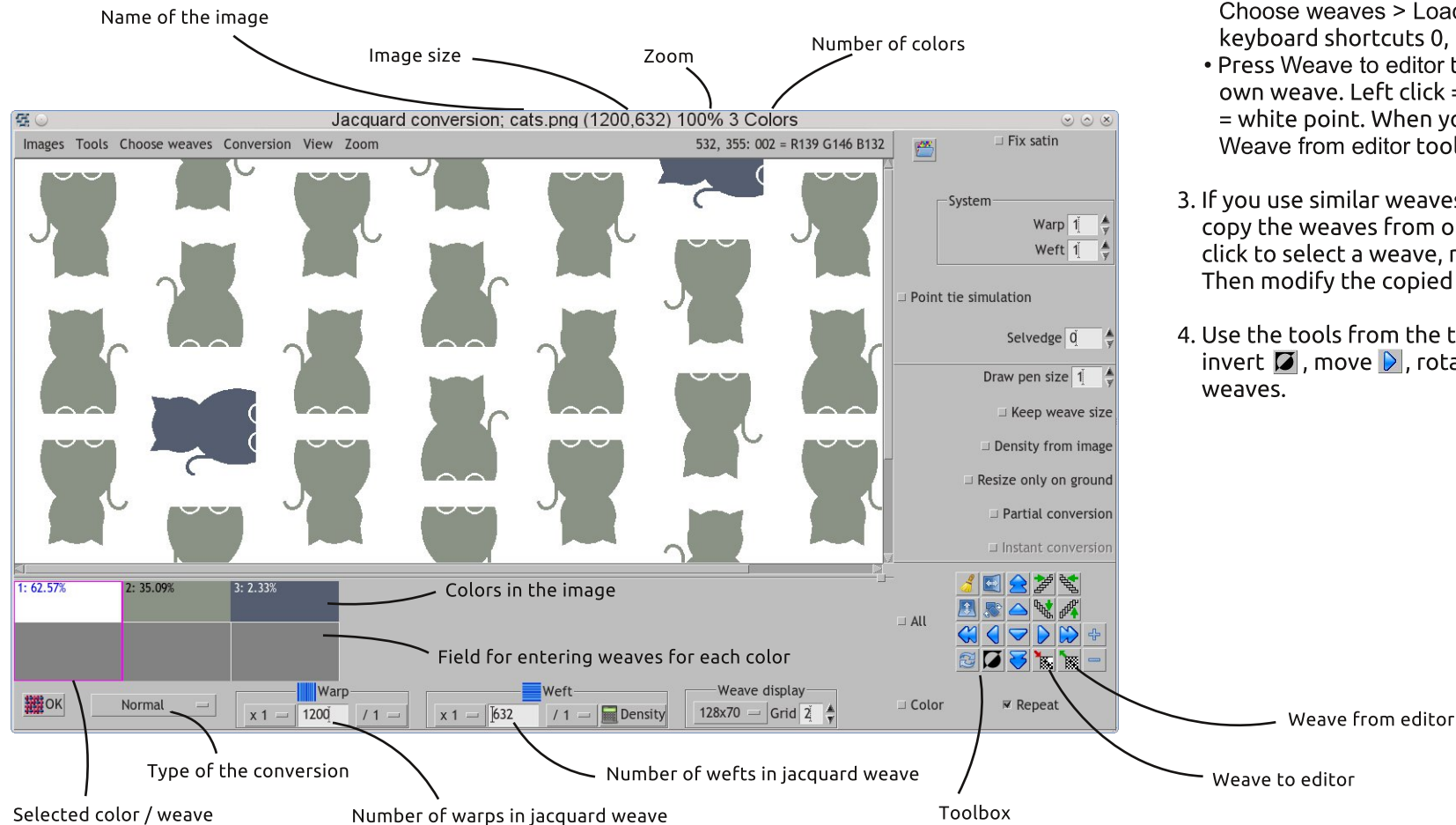
## How to convert an image into a jacquard weave

You can make a jacquard weave from an image by replacing each color with a different weave.

1. Open the Jacquard conversion window with **Weave > Jacquard conversion**.

2. Go to **Image > Load image…** and load the image. The image should be in indexed color mode. You can make such image with ArahPaint.

## How to define the weaves for each color in the image

1. Select a color for which you want to define a weave, by clicking on it. You can also select color directly from the image.

2. To define a weave, do one of the following:
   • Load a weave from the Weave browser (**Choose weaves > Load weaves…**).
   • Load one of the basic weaves by going to Choose weaves > Load default, or use keyboard shortcuts 0, 1, 2, 3, 4, …
   • Press Weave to editor tool 🖊 and draw your own weave. Left click = black point, right click = white point. When you are done, press Weave from editor tool 🖊.

3. If you use similar weaves for different colors, copy the weaves from one color to another. Left click to select a weave, right click to copy it. Then modify the copied weave.

4. Use the tools from the toolbox to mirror 🔄, invert ⬛, move ▶, rotate 🔄 or incline 🔼 weaves.

Name of the image

Image size

Zoom

Number of colors

Jacquard conversion; cats.png (1200,632) 100% 3 Colors

Images  Tools  Choose weaves  Conversion  View  Zoom          532, 355: 002 = R139 G146 B132

☐ Fix satin

System
Warp 1
Weft 1

☐ Point tie simulation

Selvedge 0

Draw pen size 1

☐ Keep weave size

☐ Density from image

☐ Resize only on ground

☐ Partial conversion

☐ Instant conversion

1: 62.57%    2: 35.09%    3: 2.33%

Colors in the image

Field for entering weaves for each color

☐ All

☐ Color    ☑ Repeat

OK    Normal    x 1  1200  / 1    x 1  632  / 1  Density    128x70  Grid 2

Warp    Weft    Weave display

Type of the conversion

Number of wefts in jacquard weave

Weave from editor

Weave to editor

Selected color / weave

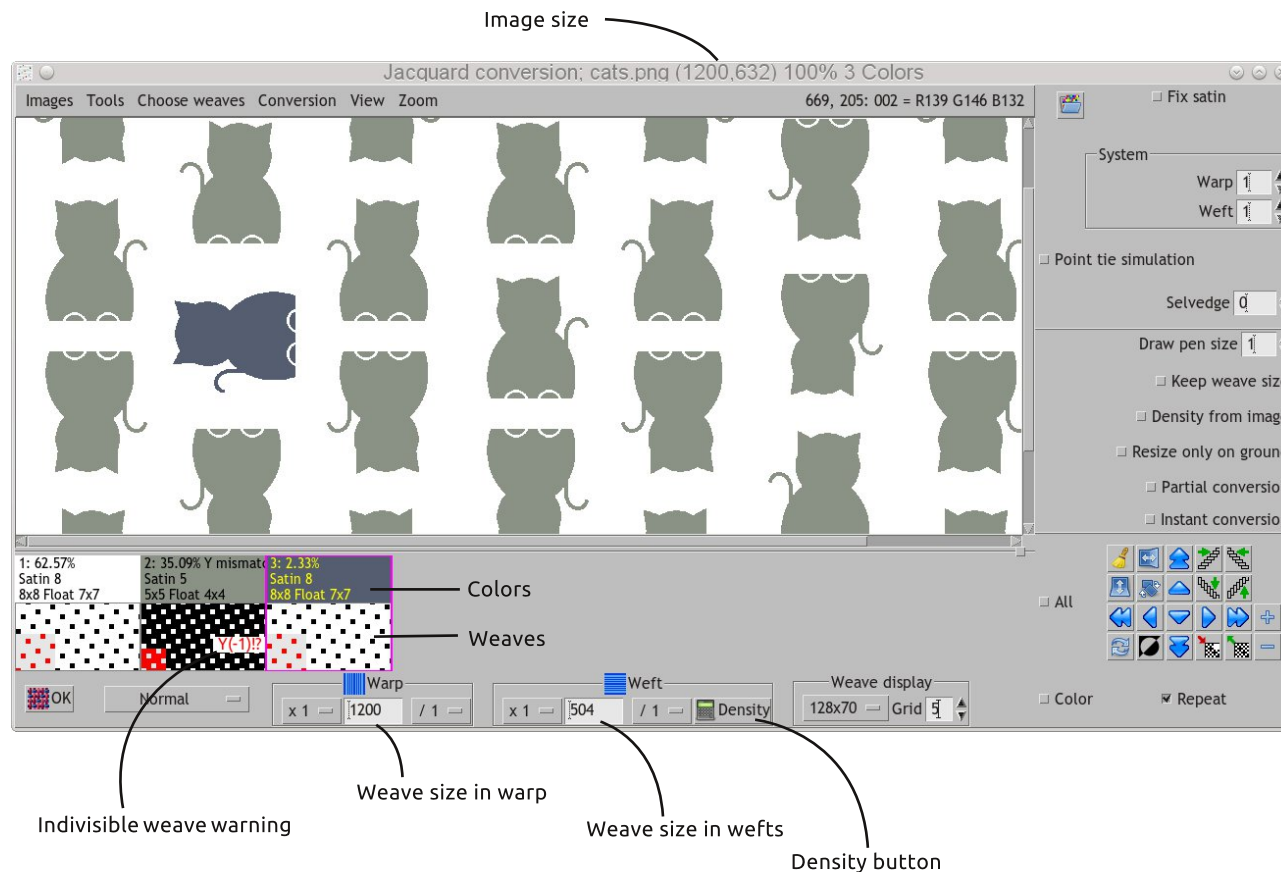Number of warps in jacquard weave

Toolbox

## How to construct a jacquard weave

1. After you have defined all the weaves, click the **Density** button to calculate the number of wefts according to the density and the number of warps. Skip this step if the image was drawn in fabric density.

2. Click **OK** to generate the jacquard weave and to redraw the fabric simulation.

3. You can view the jacquard weave by going to **Weave > Edit** in the main window or by right clicking on the fabric simulation.

 Note: If you get an Indivisible warning in either weave, it means that the weave size does not divide the image size. Go to **Conversion > Set jacquard size to divisible**, or choose a different weave. If fabric will not be repeated, divisibility does not matter.

Image size

Indivisible weave warning

Weave size in warp

Weave size in wefts
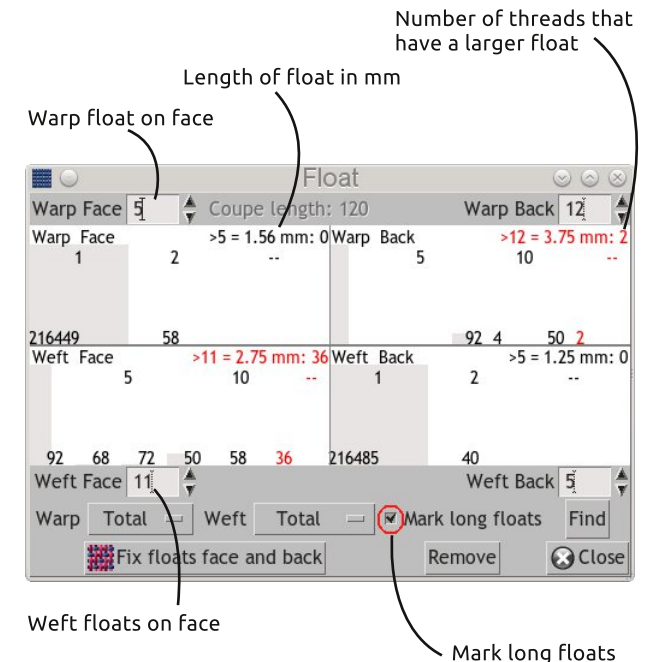
Density button

Colors

Weaves

## How to correct long floats

1. Open the Edit weave window with **Weave > Edit** in the main window.

2. In Edit weave window, go to **Edit > Float**.

3. The Float window will open. Enter the maximum acceptable float for warp and weft on face / back of the fabric.

4. If you enable **Mark long floats**, long floats will be marked with red in the Edit weave window.

5. Click **Fix floats face and back**.

Number of threads that have a larger float

Length of float in mm

Warp float on face

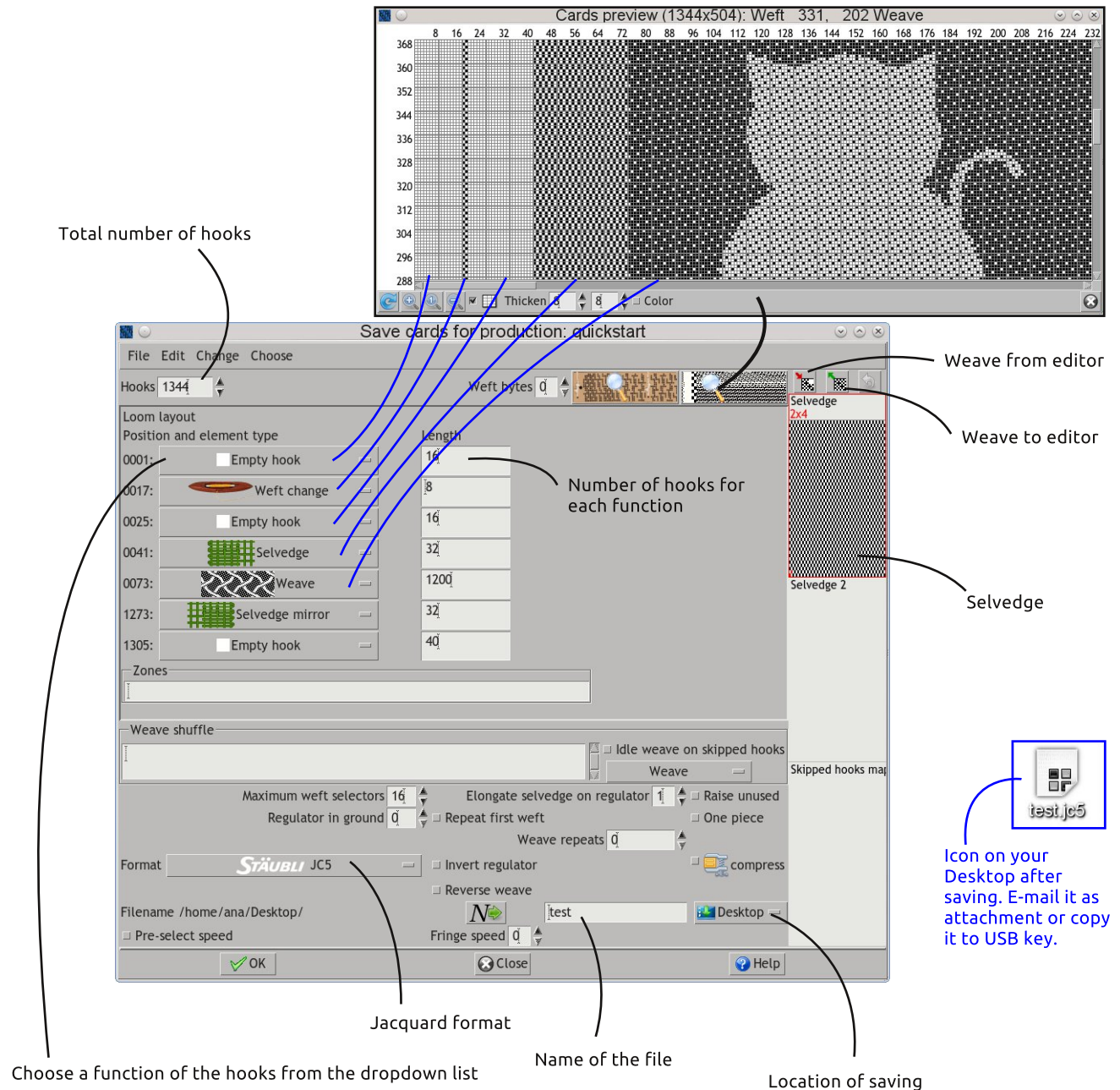Weft floats on face

Mark long floats

## HOW TO SAVE JACQUARD CARDS FOR PRODUCTION

1. Open the Save cards for production dialog (**Weave > Save cards for production**).

2. Enter the number of Jacquard hooks in the **Hooks** field in the upper left corner.

3. Edit the loom layout by choosing the function of hooks and number of hooks for each function.

4. Choose your loom format. For instance Stäubli JC5.

5. Save the setting for future use with **File > Save loom layout**. Give it a name and click **OK**.

6. Choose a weave for the selvedges by doing one of the following:
   • Double click inside the selvedge area to open the Browse Sevedge dialog and choose a weave from the database.
   • Click inside the selvedge area and press a keyboard shortcut to enter one of the default weaves: 2 = plain weave, 3 = twill, 4 = broken twill.
   • Click inside the selvedge area and click on the Weave to editor icon ▨, to draw your own weave. After drawing click Weave from editor icon ▨.

Note: Once the loom layout is saved, you can load it through Choose > Your loom layout.
To set a certain layout as default, first load the layout, then go to **Help > Save setup** in the upper right corner of the main window and click OK.

Total number of hooks

Cards preview (1344x504): Weft 331, 202 Weave

Save cards for production: quickstart

File  Edit  Change  Choose

Hooks 1344

Weft bytes 0

Weave from editor

Weave to editor

Loom layout
Position and element type — Length

| Position | Element type | Length |
|---|---|---|
| 0001: | Empty hook | 16 |
| 0017: | Weft change | 8 |
| 0025: | Empty hook | 16 |
| 0041: | Selvedge | 32 |
| 0073: | Weave | 1200 |
| 1273: | Selvedge mirror | 32 |
| 1305: | Empty hook | 40 |

Number of hooks for each function

Selvedge 2x4

Selvedge 2

Selvedge

Zones

Weave shuffle

Idle weave on skipped hooks
Weave

Skipped hooks map

Maximum weft selectors 16      Elongate selvedge on regulator 1      Raise unused
Regulator in ground 0      Repeat first weft      One piece
Weave repeats 0

Format  STÄUBLI JC5      Invert regulator      compress

Reverse weave

Filename /home/ana/Desktop/      N⇨  test      Desktop
Pre-select speed      Fringe speed 0

✓ OK      ⊗ Close      ? Help

Choose a function of the hooks from the dropdown list

Jacquard format

Name of the file

Location of saving

test.jc5

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