# Data 7 Consultancy

How to convert an image to embroidery design

(A whistle-stop tour)

## Document Introduction

This document provides a detailed explanation on converting an image into an embroidery design using Data 7 ICE. It assumes that the image has been suitably prepared and cleaned for conversion, utilizing 'Image utilities' such as posterising, cluster removal, and detail and colour reduction tools. Further information regarding these tools is available in the accompanying videos and help documents.

**Hey!** We also have a video of the below process for your convenience.

Check it out: Converting an Image to an Embroidery Design: A Quick Guide

## Loading an image to convert

### Choosing a file to convert to embroidery

Use the file menu or the open image icon to choose an image to load.
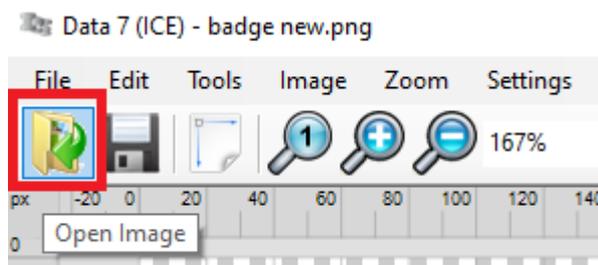


Once loaded, it will automatically be scaled to fit the application size.
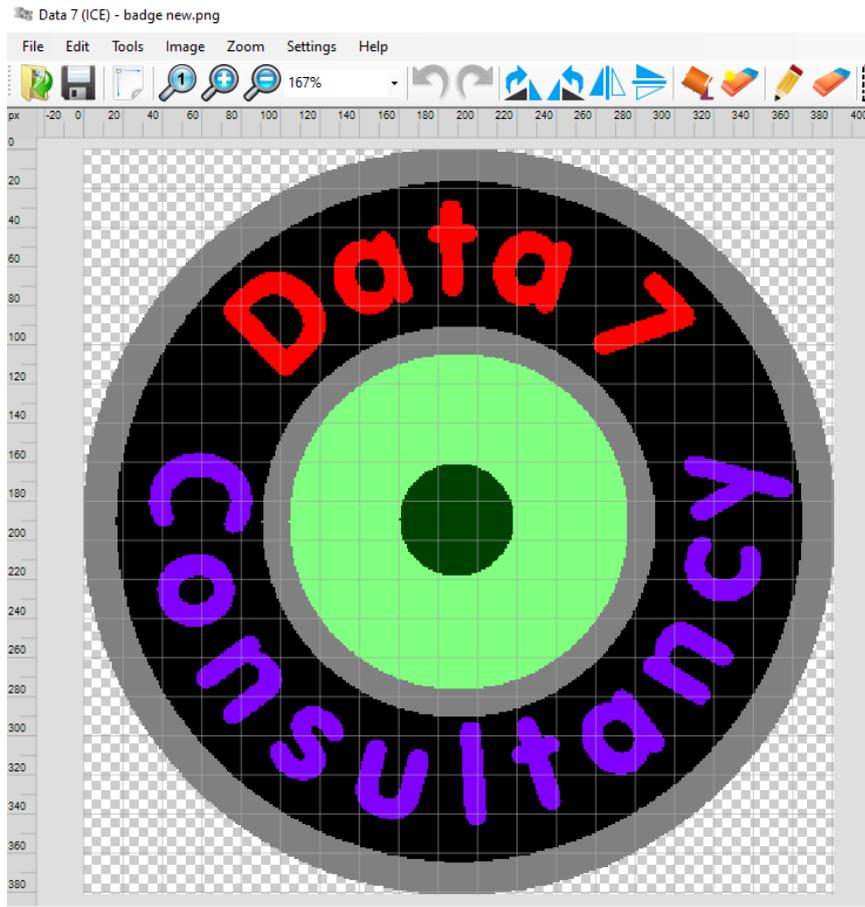
## Converting an image to embroidery

### Using the embroidery tool

Now head over and show the embroidery tools.



### Stitching options

There's a bunch of stitching options so for now, you can leave the default settings.  We'll go into the different options in other videos and help documents.

The main options to focus on in this whistle stop tour is the stitch 'Density', 'Angle' and 'Fill Pattern'.

Density of 3 means there's 0.3mm gap between each stitch row.

Angle of 45 means the stitches will sew at an angle, 45 degrees from horizontal.

The chosen fill pattern will be incorporated into the fill stitches as you'll see from the results.  Theres currently about 40 patterns to choose from however, you can tailer or make your own patterns with the built-in fill pattern editor.  You're ahead of me now I bet, there's more on that in another video and help doc. 😊
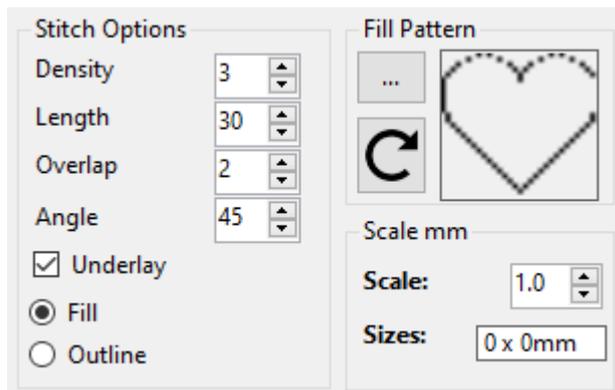
## Choose image parts to embroider

Now we're all set to choose the regions of the image you want to sew.

We do this by simply clicking on parts of the image or colours.

Before being chosen:
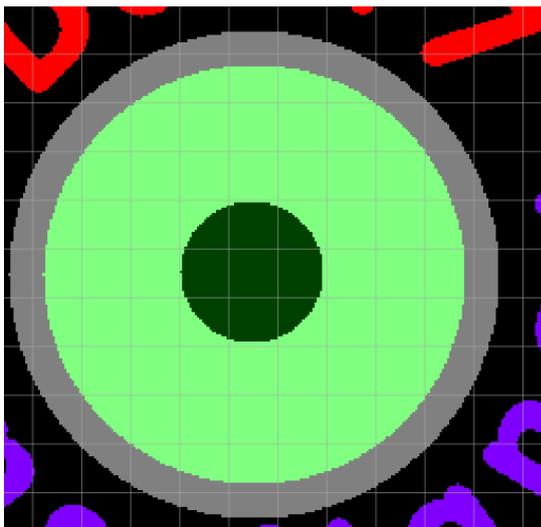


After being selected to sew, you can see the chosen fill pattern being applied to the image region. In this case, 'Hearts', ❤️.
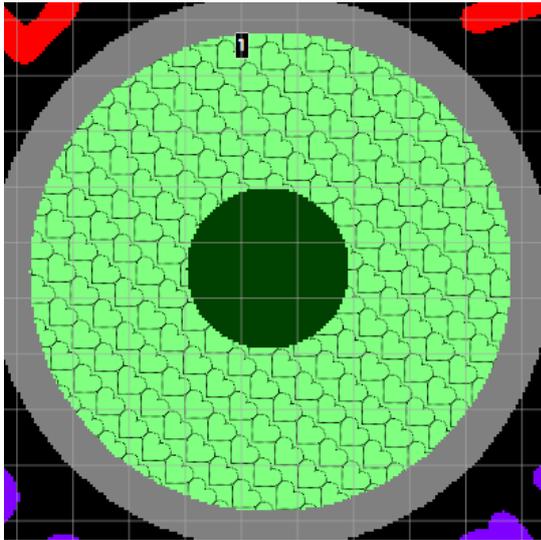
These will be added to the "regions" selection below.

If you want to automatically add all regions with the same colour you select, simply check the "sew all colour" option.



Then, selecting a region of the image will automatically include all regions of the same colour.

Below you can see all the regions and colours selected to embroider.

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Regions: 12

| DataGri | Seq | Den | Ang | Len | UL | FP | OL | Type |
|---|---|---|---|---|---|---|---|---|
| | 1 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 2 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 3 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 4 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 5 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 6 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 7 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 8 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 9 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 10 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |
| | 11 | 3 | 45 | 30 | ☑ | hearts2 | 2 | Fill |

## Converting regions to an embroidery design

After adding the image regions, click "Sew" to create the embroidered design. It's simple.

Sew
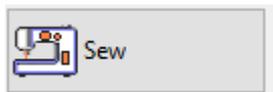
As the image is processed you can see the regions completed so far in the progress bar.

Processing Region 11 / 26

After creating the design, the export window will open, displaying the completed design and an estimated stitch count. You can also make out the fellow pattern that it's inserted into the fill stitches.



## Saving / exporting your embroidery design

You may now save or export the design in one of the many different formats. Simply click the "Export Design" button, select your preferred format, specify a file name, and choose the desired location to save your file.
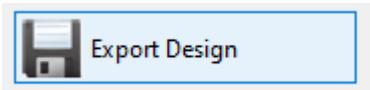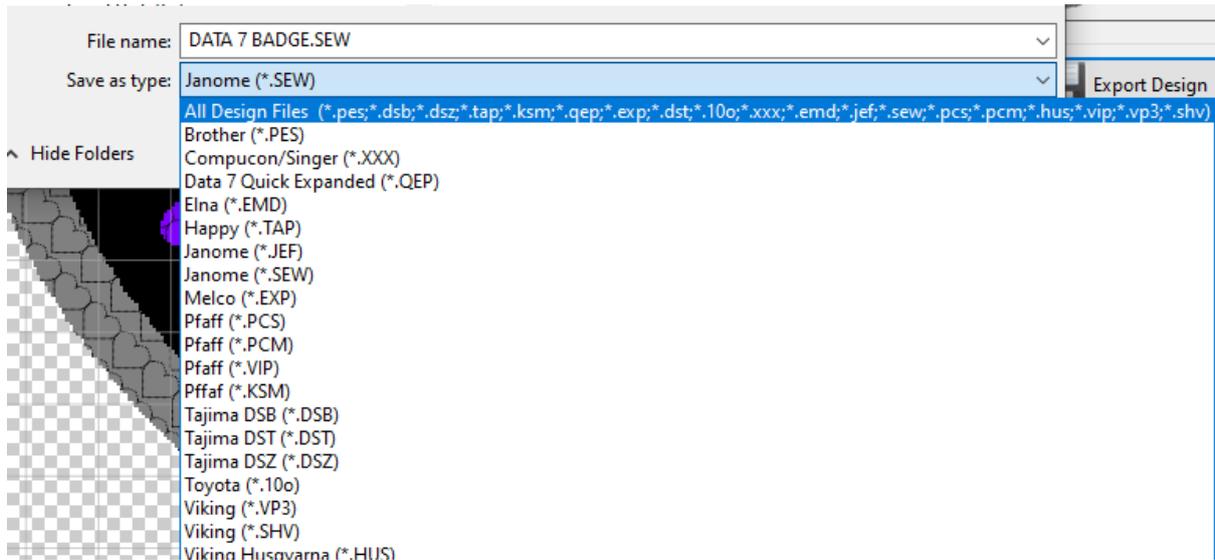
And that's it, your design created within a matter of minutes.

Below you can see the design displayed in the Data 7 embroidery design suite (EDS), where, if needed, you can edit your design further, add monogramming, block edit, merge designs and many more features.

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