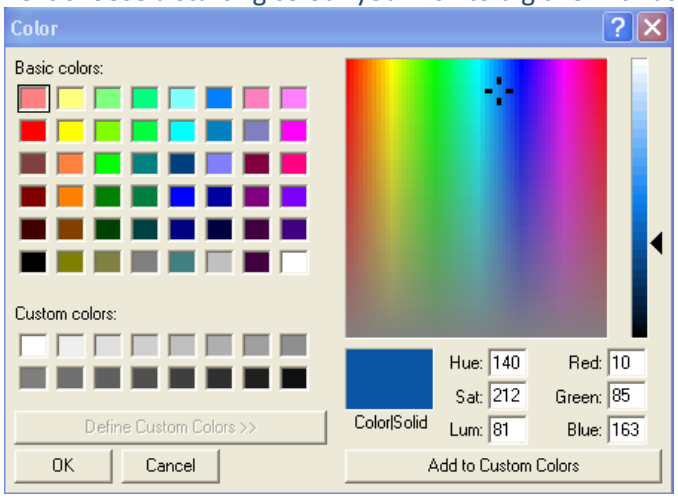
How to digitise a complex fill using the Data 7 EDS

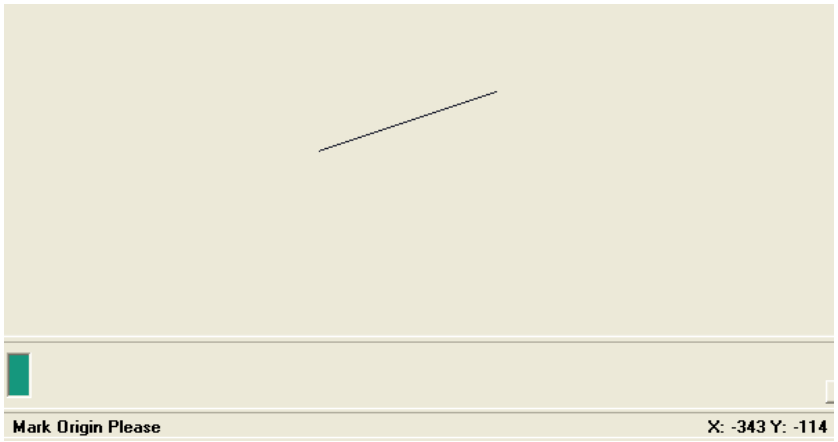
Step 1:
To start, open the Data 7 EDS system.

Step 2:
Start a new digitising session by selecting “Start Session” from the “Digitise” menu as show below.

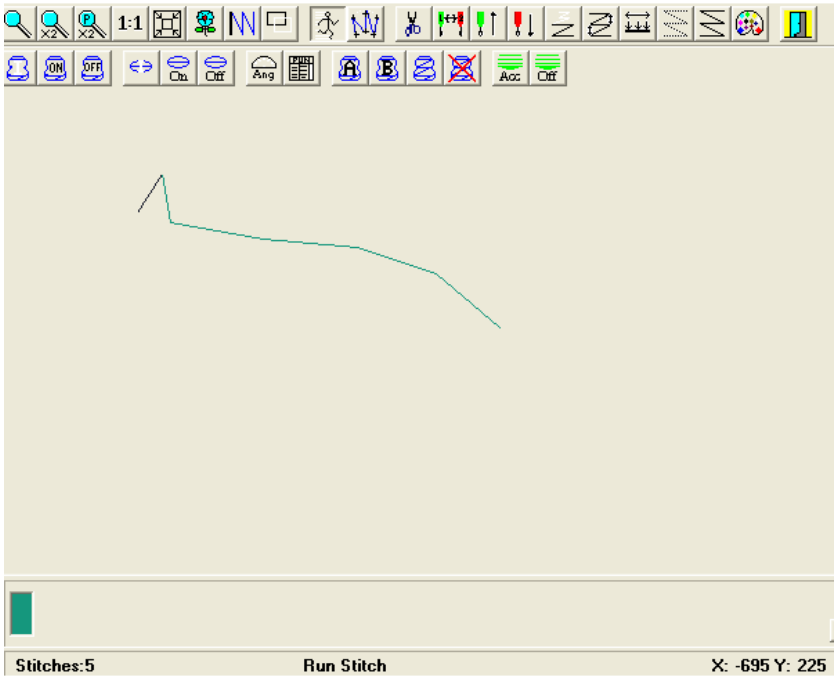
Step3:
Next choose a starting colour you wish to digitize with using the “Color” diaglog box as shown below.



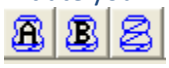
Step 4:
Mark the Origin or centre of your design using the left mouse button. This can be anywhere in the digitising window as shown below



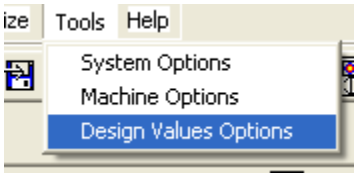
Step 5:
Create running stitch to the start of your fill area using the left mouse button which creates running stitches to this point as shown below



Step 6:
Initiate your fill by selecting one of the fill options below:-



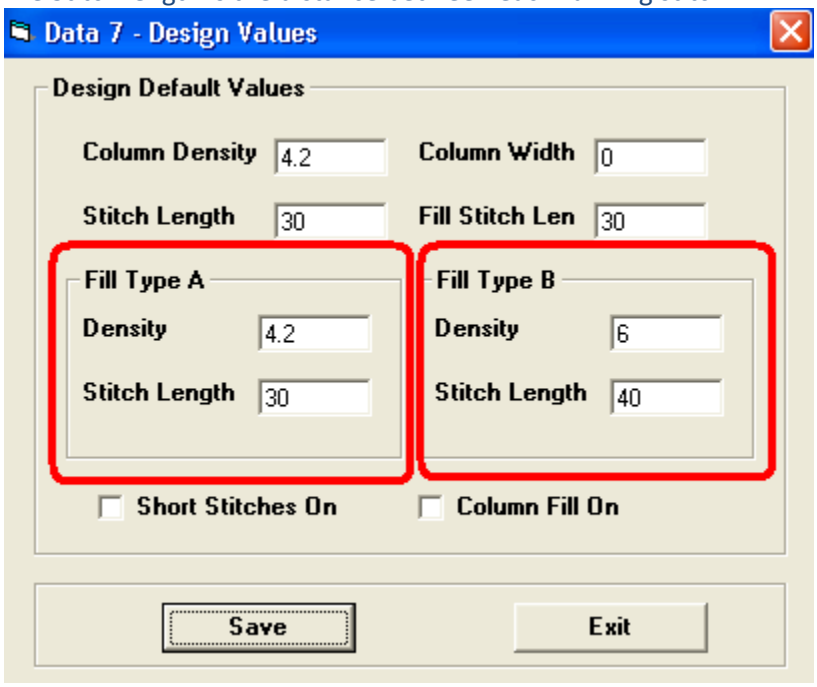
Using Fill icons A or B automatically places the fill density and stitch length predefined in your design values. To access or check the predefined fill values before digitising simply select “Design Values Options” from the “Tools” options as show below.



You will then see the systems predefined settings for Fill A & Fill B as shown below. You can change these options to your own preferred values.

The Column Density is the distance in .1mm between each column stitch side as show below. 4.2 = 0.42mm

The Stitch length is the distance between each running stitch in .1mm e.g. 30 = 3.00mm

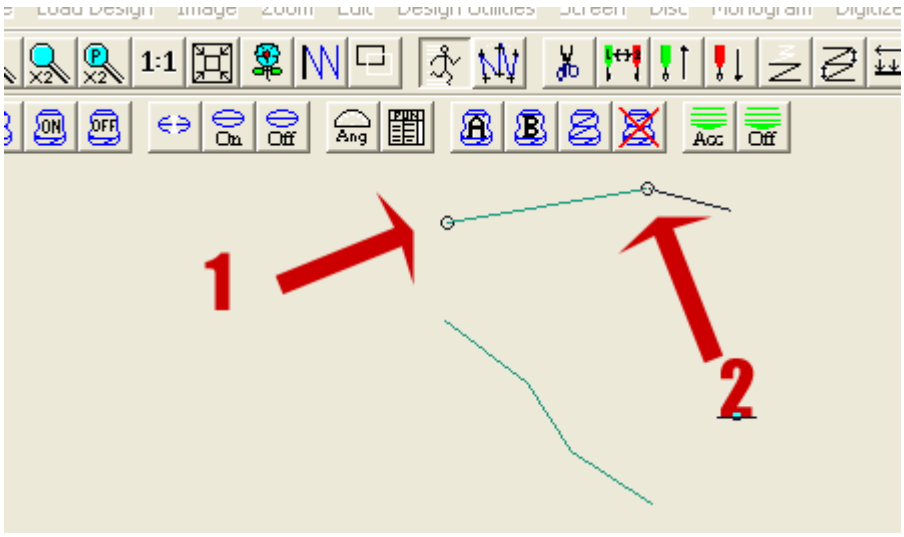


Alternatively if you wish to use different values at this point simply use the "Insert Fill" icon (shown below). You can then enter a tailored fill density and stitch length.

Once you have entered a fill density and stitch length you can now start the fill sequence.

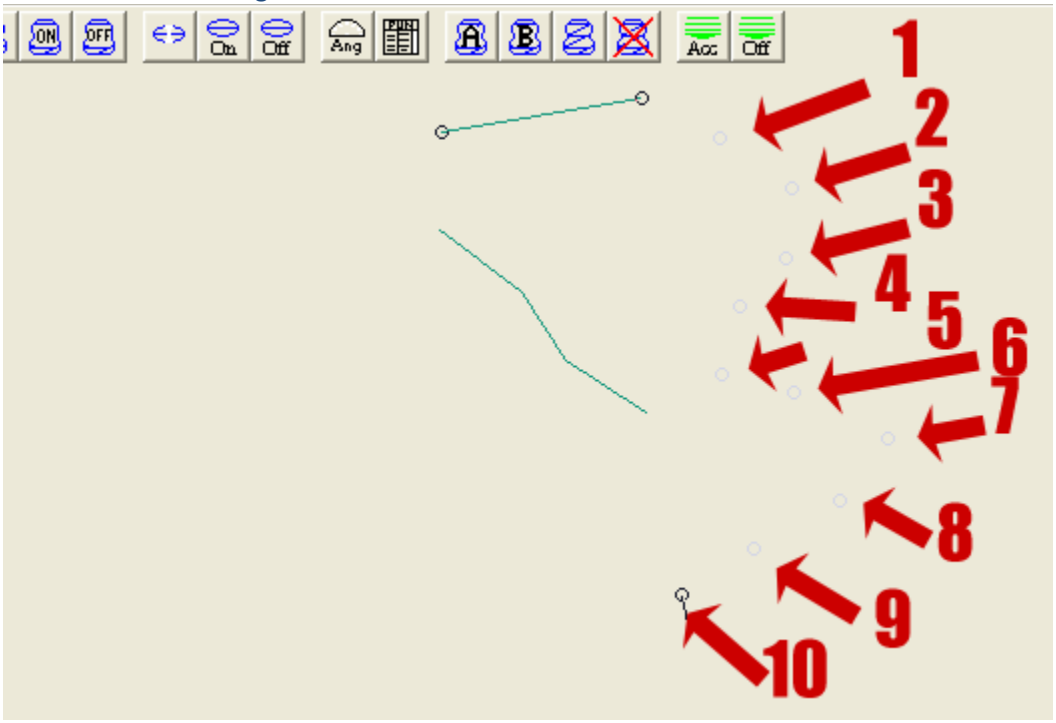
Step 7: (The Fill Sequence of mouse buttons)

Next we need to tell EDS the angle of stitches in the fill. We do this with the first two run stitches we digitise using the left mouse button as shown and indicated below using 1 & 2 arrows. 1 indicates the position of the first run stitch and 2 indicates the second

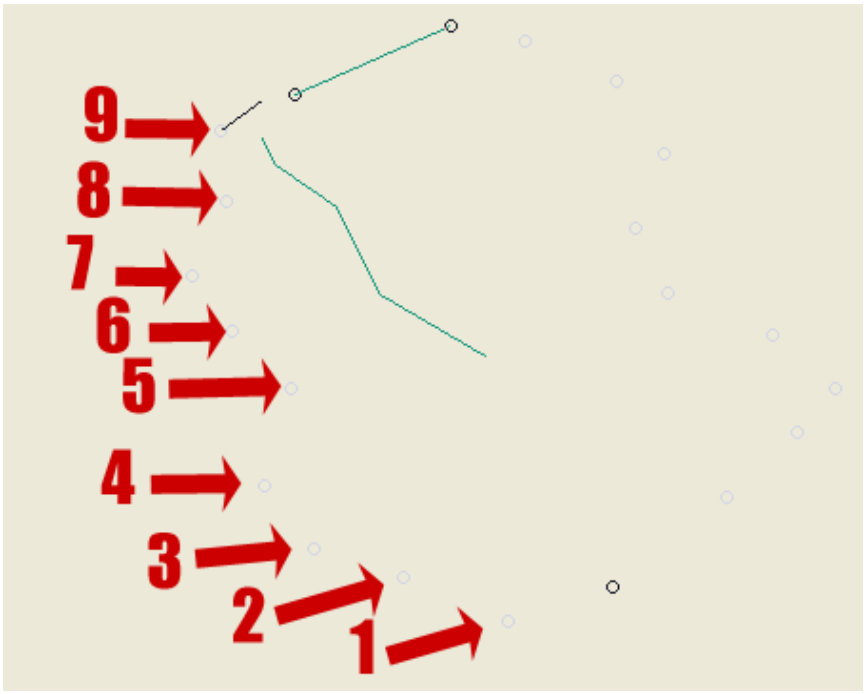


Step 8: (Fill Side 1 shape)
Now we need to define the 1st side of the fill by marking it with column stitches using the right mouse button and ending with a running stitch (left mouse button). The below image shows the positions and sequence of the column stitches which defines the side 1 shape of the fill.

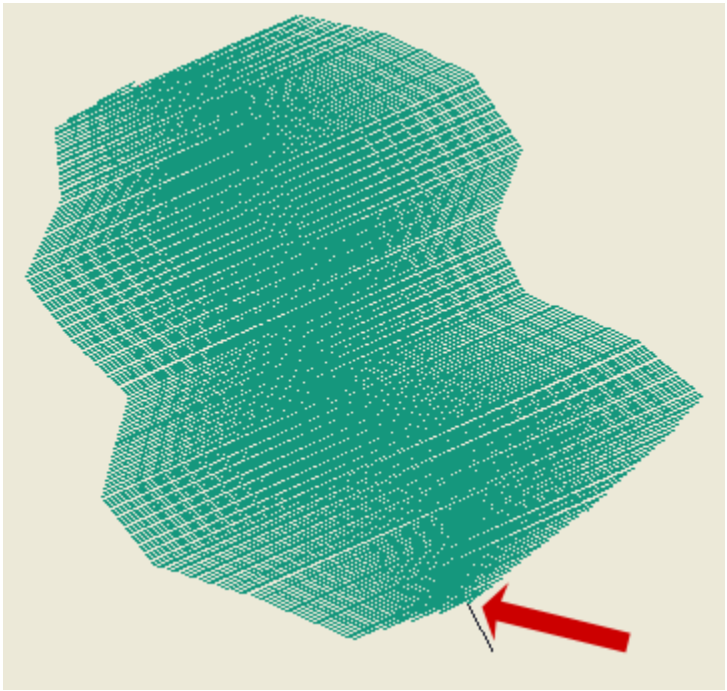
Point 10 is the running stitch that marks the end of side 1



Step 9: (Fill Side 2 shape and end)
Now we repeat the process to define side 2 of our fill using column stitches (right mouse button) ending with the final running stitch (left mouse button) as show below. Point 9 is the last column stitch that defines side 2.



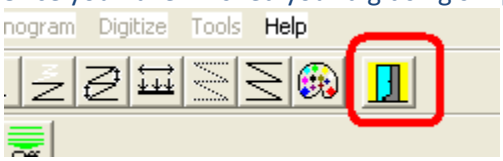
Once the last point is entered which is a run stitch (left mouse button) the complex fill is calculated and created as show below:-



This is now the end of the fill and uses the running stitch (left mouse button) used to define end of size 1 and beginning of side 2 as highlighted with the red arrow above as the exit from the fill and the next stitch position.

Step 10: End Session

Once you have finished your digitising simply click the “End Digitising Session” icon highlighted below



This will then enable you to save the design as a Data 7 condensed design (shown below) which will help you resize the design more easily and will compensate for stitches. More about this in later tutorials.