# Minuties-Delta

The data

100 fingerprint cards were choosen in order to get both thumbs having ulnar loops with at least 20 ridges between the delta and the core of the loop. The same was made to get cards with the clean delta and a control zone on each of the palms. The control zone was defined as a zone were the flow of the ridge is straight and parrallel situated in the thenar zone, just over the thumb.

These different zones were extracted and croped with a 3 x 3 cm square. The part containing a delta were centered on it and the upper axis was placed north. For the control zone, the square was aligned with the edge of the print and the upper part on the middle line.

For each image the minutiaes were annotated with their position and the orientation. These are represented in the plots separated by zones and hand.
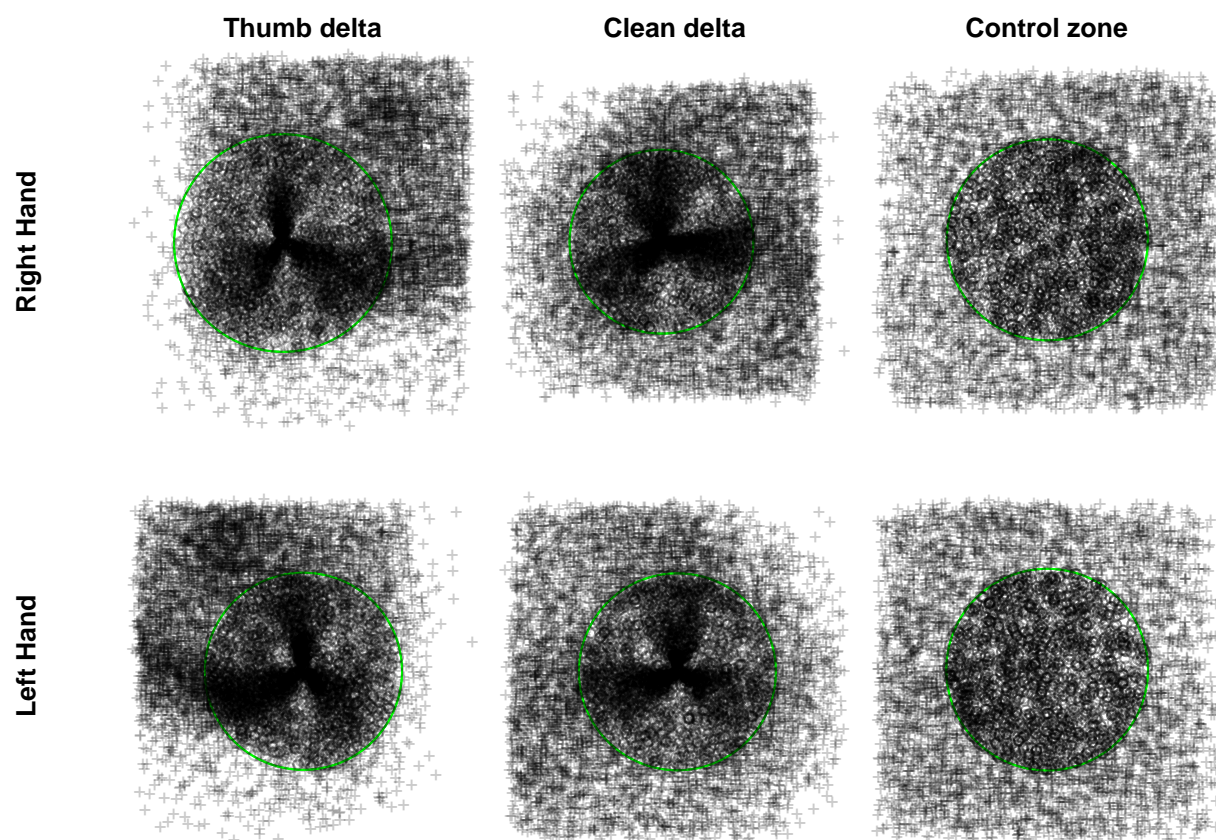
The green circle is the window in which the analysis will be made. The diameter is of 1.5 cm which allows to avoid the problem of edge effects. The points out of this window won't be used for the analysis.

CSR testing

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```r
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:
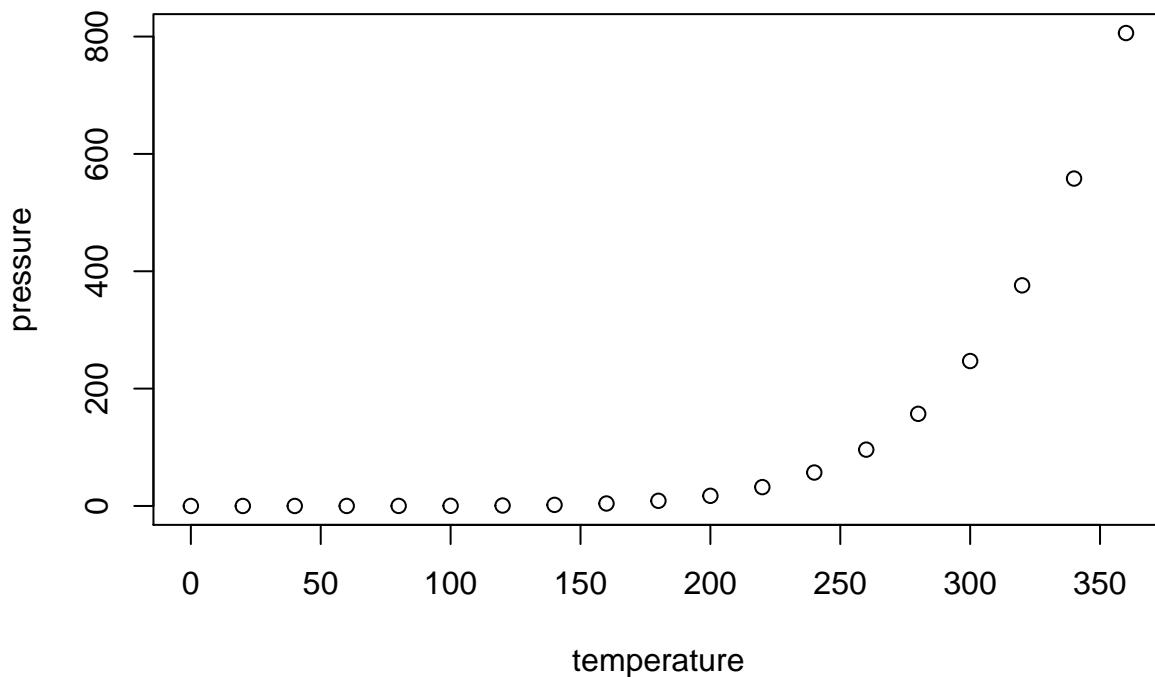
Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.