

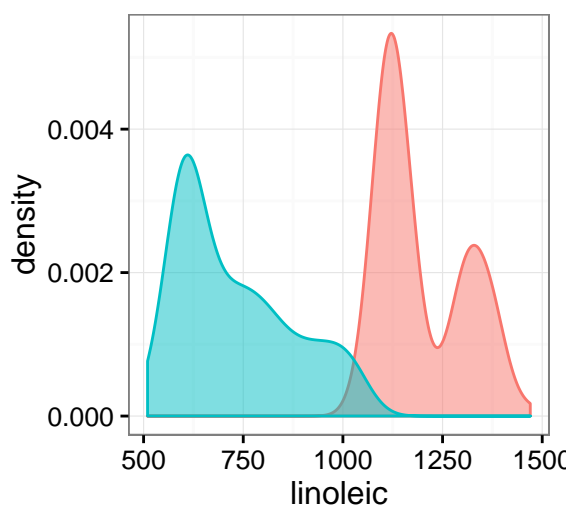
# Supervised Classification Quiz 1

Week 8

## Question 1

Below are the summary statistics for linoleic acid, in the olive oils data (m=mean, s=sd).

region	m	s
Sardinia	1196	107
North	727	143



- Sketch the LDA boundary on the plot.
- A new observation with linoleic acid equal to 1000 would be classified into which region? Sardinia or North

## Question 2

The pooled variance is the same as the variance across all groups. TRUE or FALSE

## Question 3

If the prior probability for group 1 is higher than group 2, the LDA boundary is actually shifted towards group 1? YES or NO

## Question 4

Compute the classification error from the tabulation of true class vs predicted class below.

	Pred Sard	Pred North
Sardinia	98	0
North	15	136