# Continuous variables

Monday, October 24, 2016 9:00 AM

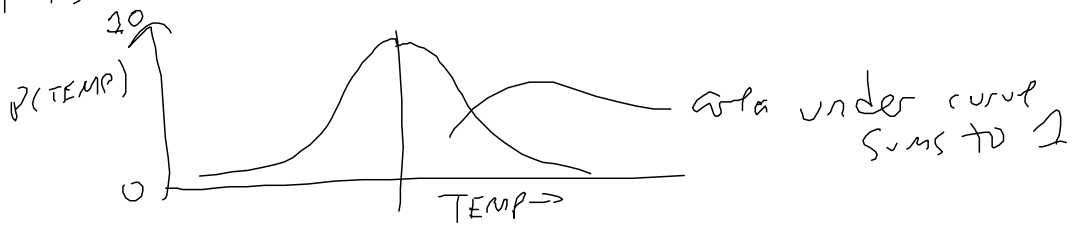
TEMP = [ -100 ... 100 ]

DISTANCE = [ 0 ... 100 ]

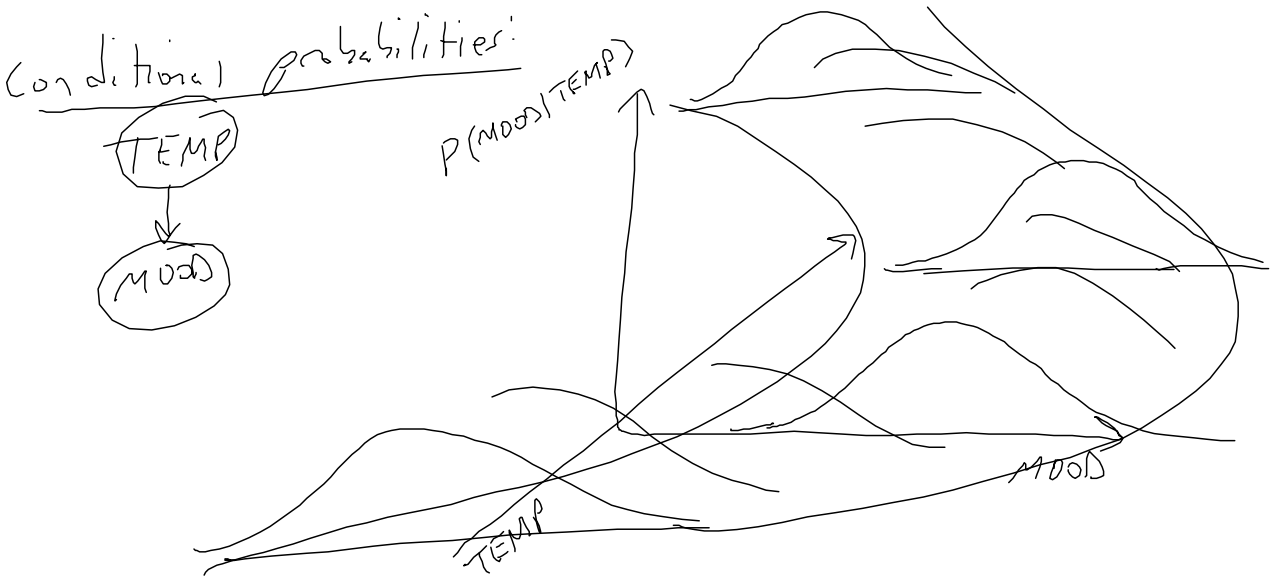
SENSOR = [ 0 .... 100 ]

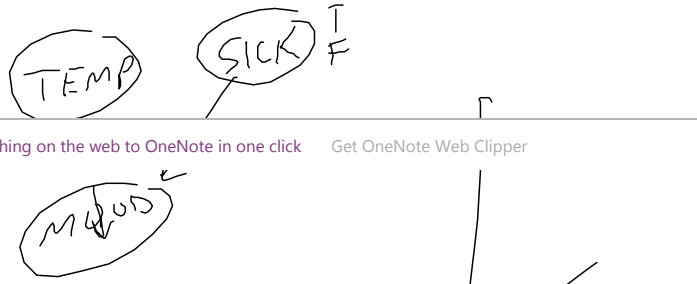
Continuous variables represent their distributions w/ continuous functions

Distribution is a function $P(TEMP) = f(TEMP)$



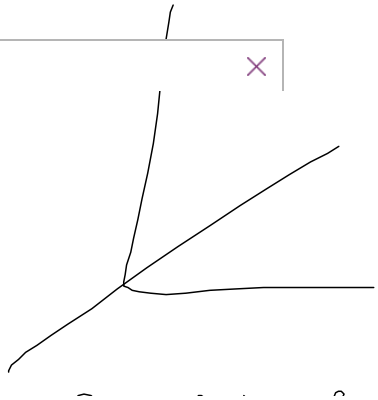

Conditional probabilities:







$P(\text{Mood} \mid \text{TEMP}, \text{SICK})$ $P(\text{Mood} \mid \text{TEMP}, \text{SICK})$