

## Continuous variables

Monday, October 24, 2016 9:00 AM

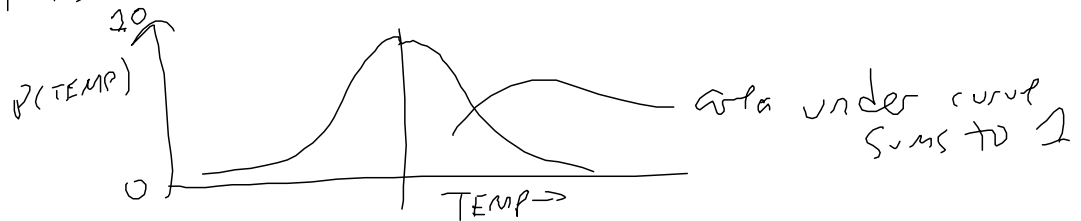
$$TEMP = [-100 \dots 100]$$

$$DISTANCE = [0 \dots 100]$$

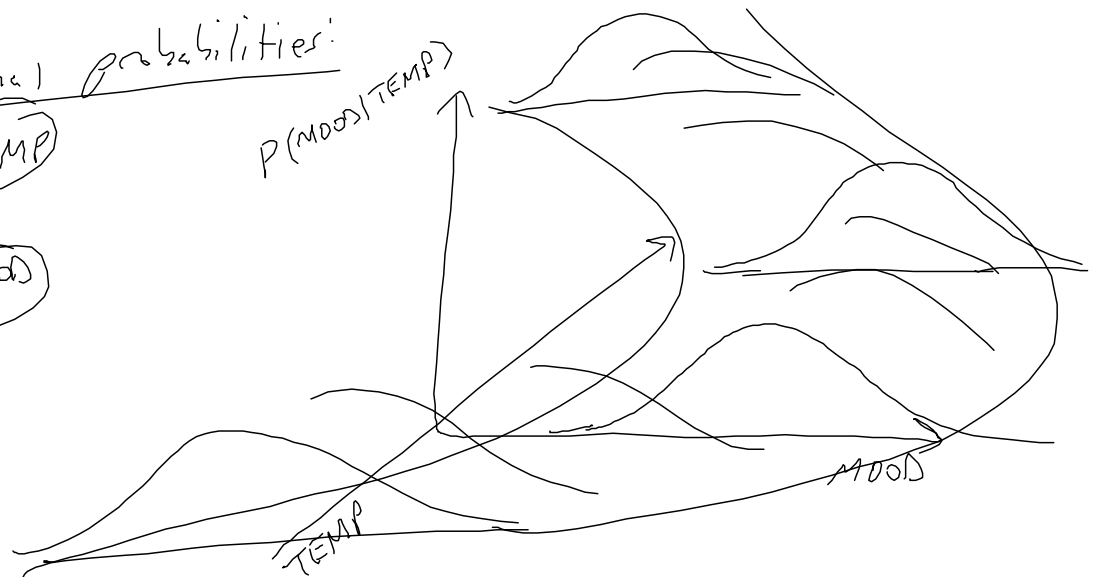
$$SENSOR = [0 \dots 100]$$

Continuous variables represent their distributions  
w/ continuous functions

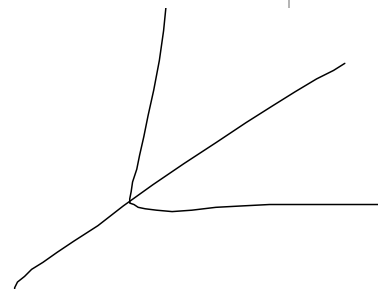
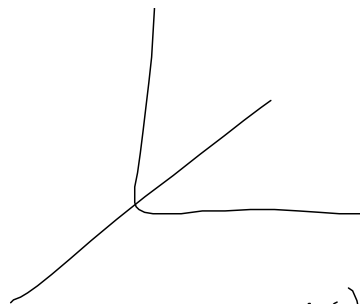
Distribution is a function  $P(TEMP) = f(TEMP)$



Conditional probabilities:



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

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