Distance Functions Minkowski Distance

dist(xi,xj) =
$$((x_{i,1}-x_{j,1})^n+x_{i,2}-x_{j,2})^n+...)^{\frac{1}{n}}$$
vectors

Distance Functions for Binory Attributes Use a confusion matrix (& Naminal)

ith & jun data points be xi & xj (vectors)

		Data	pointj	
Data	1	a	6	946
i	0	C	d] c+d
		atc	btd	0.46

a: # Number of attributes
with value 1 for both
data points

b: # attributes for xif=1

2+d & xsf=0 (value of for attribute attribute attribute attribute)

C: #attributes for xit=0

The distance becomes:

Nominal Attributes: Colors: Red. Blue, Yellow numbers

Determine the number of values that will motern in vectors.