Compute Gini index for

Yacht

Yacht

Expensive car

Expensive car

We have 4 elements.

Relative frequency of yacht is 2/4=0.5=0.5^2=0.25

Relative frequency of expensive car is 2/4=0.5=0.5^2=0.25

You square each. You add up

0.25+0.25=0.5

You do negative one times that plus 1. -1\*0.5+1=0.5. That is your Gini index.

I think what you do is this. Suppose you have

Yacht

Yacht

Expensive car

Expensive car

Yacht

Yacht

Expensive car

Expensive car

Yacht

Yacht

Expensive car

Expensive car

Yacht

Yacht

Expensive car

Expensive car

So 8 yacht and 8 expensive car and