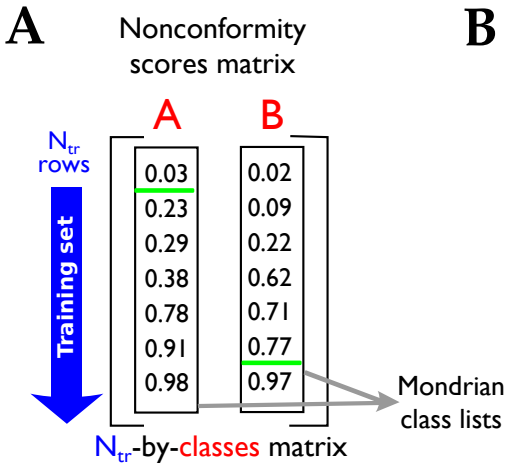

B

Classification probabilities accross the RF trees for $x_{ext\ j}$: p(A): 0.2; p(B): 0.8

How many elements in the corresponding Mondrian class list are smaller than p(A) and p(B)? :

1/7 for A, and 6/7 for B (indicated in green)

The p.values are thus:

p.value(A): 1/7 = 0.14; p.value(B): 6/7=0.86

Are these values higher than the significance level, 1-ε =0.2?

A: **No** (0.14 < 0.20): $X_{ext\ j}$ is not predicted to belong to class A for that confidence level (0.8)

B: **Yes** (0.86 > 0.20): $X_{ext\ j}$ is predicted to belong to class B for that confidence level (0.8)