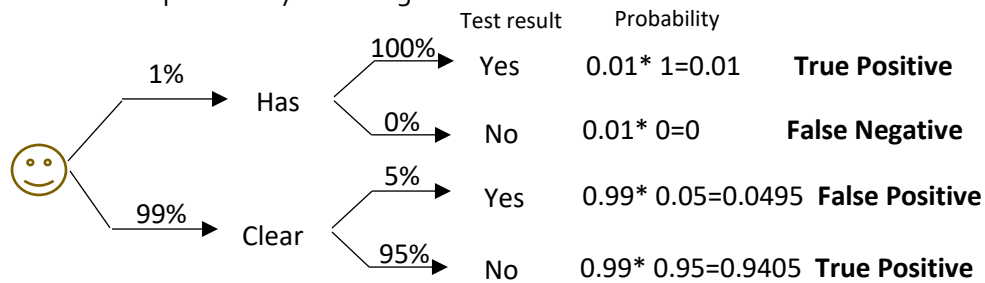


What is the probability of having the disease in the population?



Probability of actually having MMV =  $0.01 / (0.01 + 0.0495)$   
= 16.8%

What would I say to a friend if they tested positive?

It would depend on the situation: if there wouldn't be any consequences about getting treated and if there isn't a stigma to having the disease then I would say to just get the treatment that's available (if any). If there's no treatment then I would reassure them that there is a chance of having a false positive that is ~5% and to get retested, since the chance of having another false positive is only 0.25%.

