## Appendix C. R Code to implement Benzecri correction from MCA eigenvalues

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| correction\_benz = function(eig, K){*###**#Function to correct MCA eigenvalues using Benzecri correction #Arguments:* *# eig: vector of eigenvalues from MCA()* *# K: number of qualitative variables (binary or categorical)**#Returns: eigenvalues and variances corrected ###**# Benzecri correction* eig\_benz <- rep(0, length(eig))selection <- eig > 1/Keig\_benz[selection] <- ((K/(K-1))\*(eig[selection] - 1/K))^2*# Save results# save results**var\_benz <- 100\*eig\_benz/sum(eig\_benz)**df\_mca\_benz <- cbind(eig\_benz, var\_benz, cumsum(var\_benz))**colnames(df\_mca\_benz) = c("eig\_benz", "%\_var\_benz", "cum\_%\_var\_benz")**return(df\_mca\_benz)*} |