## 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/K  eig\_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)*  } |