#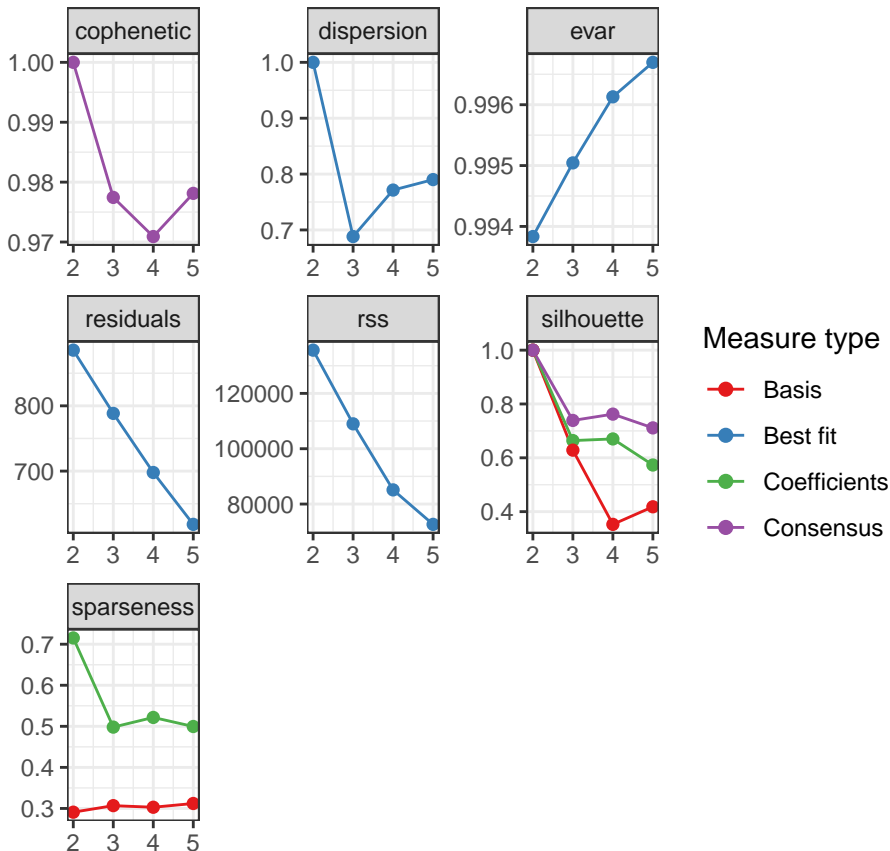 NMF rank survey