characters compariso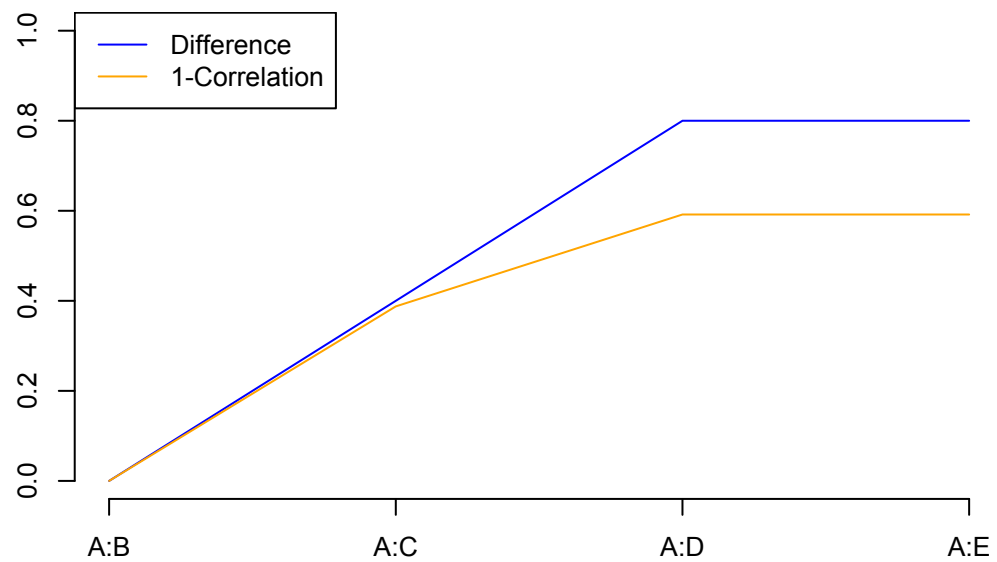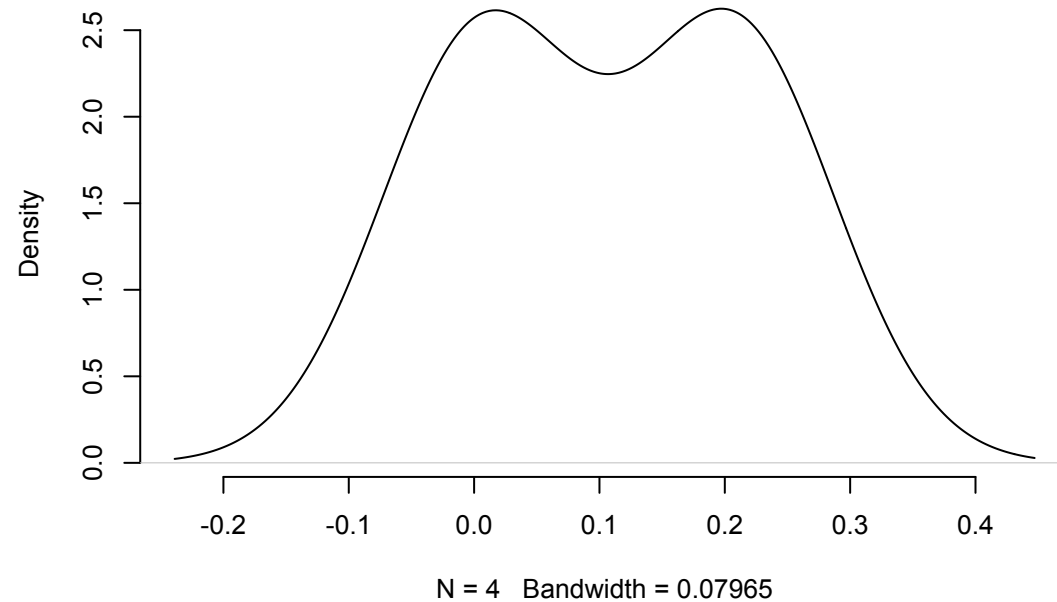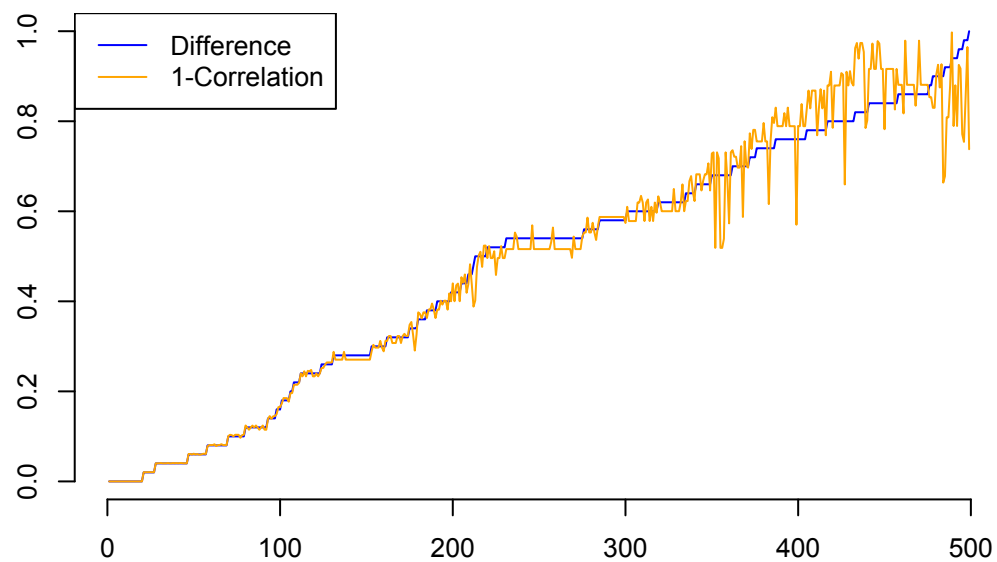n (5x5) — **residuals** — **characters comparison (100x500)** — **residuals**