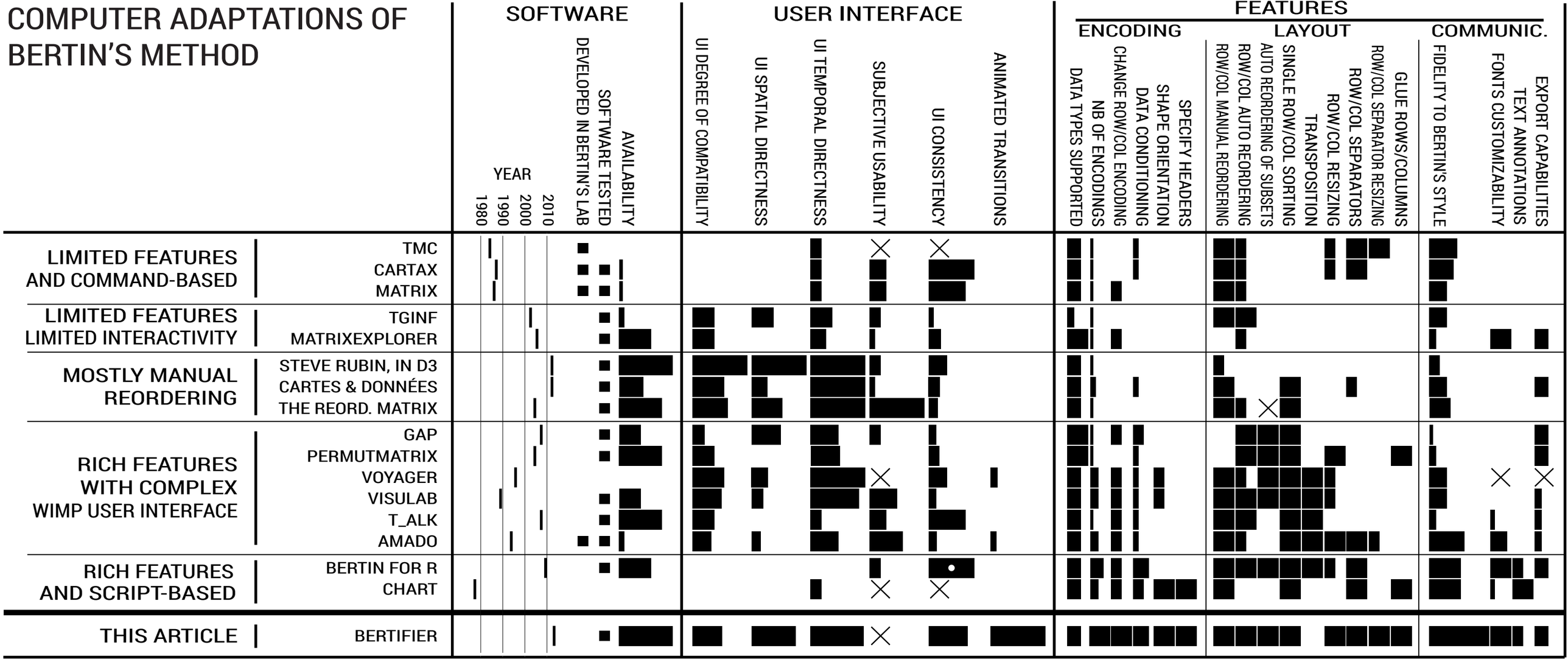COMPUTER ADAPTATIONS OF BERTIN'S METHOD