

## Sum of Squared Residuals in Matrix-Vector Notation

$$a \quad e^T e = \underbrace{[y - Xb]^T}_{\text{row}} \cdot \underbrace{[y - Xb]}_{\text{column}} = y^T y -$$

$$\square \text{ Model: } y = Xb + e \Rightarrow e = y - Xb$$