SST = SSE + SSM

$$\hat{\Sigma}(y; -y)^2 = \hat{\Sigma}(y; -\hat{y};)^2 + \hat{\Sigma}(\hat{y}; -\hat{y})^2$$

Small

$$\hat{y} = \text{observed response for it obs.}, i=\{., n\}$$

$$\hat{y} = \text{predicted response soms model} = f(x)$$

$$\hat{y} = \hat{SSM} = 1 - \frac{SSE}{SST}$$

SST | SST | SST | SST |

SSE | SST | SST |

Adjusted $\hat{Q}^2 = 1 - \frac{SSE}{SST} / n - p$

$$\hat{y} = \hat{q} + \hat{q}$$