$$\begin{aligned} \log S \left(y, \hat{y} \right) &= \left(y - \hat{y} \right)^T \left(y - \hat{y} \right) \\ &= \left(y - X \cdot w \right)^T \left(y - X \cdot w \right) + \frac{\lambda w^T \cdot w}{\lambda w^T \cdot w} \\ &= \left(y - X \cdot w \right)^T \left(y - X \cdot w \right) + 2 \cdot \lambda^T \cdot w \\ &= -2 \cdot X^T \cdot \left(y - X \cdot w \right) + 2 \cdot \lambda^T \cdot w \\ &- \frac{\lambda^T \cdot y}{\lambda^T \cdot x} + \frac{\lambda \cdot T}{\lambda \cdot x} \cdot w + \frac{\lambda \cdot \lambda^T \cdot w}{\lambda \cdot x} = 0 \\ &\left(x^T \cdot x + \lambda \cdot T \right) \cdot \left(x^T \cdot x + \lambda \cdot T \right) \cdot w = x^T \cdot y \\ &\left(x^T \cdot x + \lambda \cdot T \right) \cdot \left(x^T \cdot x + \lambda \cdot T \right) \end{aligned}$$

Repuler i zantro 1 reputerize ton with

$$|ogs(y,y)| + \frac{2}{2} |w_d|$$

$$|\log (y,y)| + \frac{2}{2} |w_d|$$

$$|\log (y,y)|$$

$$|\log (y,y)| + \frac{2}{2} |w_d|$$

$$|\log (y,y)|$$

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