Limber Regression
$$\hat{E}(w) = \frac{1}{2} \left[(w)^{\frac{1}{2}} x_{1} - k_{1} \right]^{2} = \frac{1}{2} \left[(y - k_{1})^{\frac{1}{2}} + k_{2} + k_{3} + k_{4} + k_{4$$

Logistic sugression
$$E(w) = -\sum_{i} (t_{i} \log y_{i} + (t_{i} - t_{i}) \log (t_{i} - y_{i}))$$

$$QE(w) = \sum_{i} (y_{i} - t_{i}) x_{i} = X^{7} (y_{i} - t_{i})$$

$$X_{i} = X^{7} (y_{i} - t_{i}) = X^{7} (y_{i} - t_{i})$$

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$$w^{(in)} = w^{(i)} - (\overline{X}^{7} \overline{X})^{-1} \overline{X}^{7} (y-t) =$$

$$= (\overline{X}^{7} \overline{Y} \overline{X})^{-1} \overline{X}^{7} \overline{X}^{7} (y-t) =$$

$$= (\overline{X}^{7} \overline{Y} \overline{X})^{-1} \overline{X}^{7} \overline{Y} (x-t) =$$

$$= (\overline{X}^{7} \overline{Y} \overline{X})^{-1} \overline{X}^{7} \overline{X} (x-t) =$$

$$= (\overline{X}^{7} \overline{X})^$$