



$$Z = \beta X + b$$



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$$P = 1$$

$$\frac{1 + e^{-1}}{z}$$



$$Z = \beta X + \frac{b}{b}$$

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$$1 + e^{-z} = \frac{1}{P}$$



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$$e^{-z} \xrightarrow{\begin{array}{c} 1 - P \\ P \end{array}} \xrightarrow{\text{Inverse}} = e^{z} \xrightarrow{\begin{array}{c} P \\ \hline 1 - P \end{array}}$$









$$\beta X + b \log \left(\frac{P}{1 - P} \right)$$

