$$f(x) = \frac{1}{1 + e^{-x}} \longrightarrow f'(x) = f(x)(1 - f(x))$$

$Sigmoid(x) = 1 + e^{-x} \longrightarrow f(x) = f(x)(1 - f(x))$
(0)生みで)
La sigmoid(2) = La (1+ex)
$= (-1) \frac{1}{(1+e^{-2})^2} \frac{d}{dx} (1+e^{-2})$
$= (-1) \frac{1}{(1+e^{-2})^2} (0+e^{-2}) \frac{d}{d2} (-2)$
$=(-1)\frac{1}{(1+e^{2})^{2}}e^{-2}(-1)$
$=\frac{e^{-\chi}}{(1+e^{-\chi})^2}$
$= \frac{1+e^{-7}-1}{(1+e^{-7})^2}$
$= \frac{(1+e^{-2})}{(1+e^{-2})^2} - \frac{1}{(1+e^{-2})^2}$
= 1+e-2 - (1+e-26)2
= 1 (1- 1+e-Z)
= ST& motal(X)(1-ST& motal(x)
f(x) = f(x)(1-f(x))