

$$f_{z}(z) = \int_{-\infty}^{\infty} f_{x}(x) f_{y}(z-x) dx$$

$$= \frac{1}{\sqrt{2\pi}(\sigma_x^2 + \sigma_y^2)^2} \left( \frac{-1}{2} \left( \frac{2 - \mu_x - \mu_y}{\sigma_x^2 + \sigma_y^2} \right) \right)$$

$$0 \quad Cov(X,X) = Van(X)$$

* The Cornelation coefficin	+
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=> At is a dimensionless version of coverien.



((X) 00) D = [V 4+X2] 00 1 12

(2 x 1/0) + (4 x 1/0) = (1 + 1 x 1/0) + (0)

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