Background
(Linear Algebra, Jacobian Matrix)

- Linear Transformation / Affine Transformation
  Affine ~ = Linear ~ + shifting(translation)

- change of variable

$$\frac{dz}{dt} = \frac{\partial z}{\partial x}\frac{dx}{dt} + \frac{\partial z}{\partial y}\frac{dy}{dt} \quad \Rightarrow \quad dz = \frac{\partial z}{\partial x}dx + \frac{\partial z}{\partial y}dy$$

- Jacobian matrix
  비선형변환 => 선형변환

Background
(Linear Algebra, Jacobian Matrix)

- Linear T
  Affine ~
- change
  $$\frac{dz}{dt} =$$
- Jacobia
  비선형변