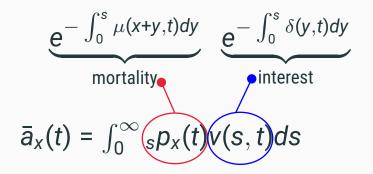
$$\bar{a}_x(t) = \int_0^\infty {}_s p_x(t) v(s,t) ds$$

$$\underbrace{e^{-\int_0^s \mu(x+y,t)dy}}_{\text{mortality}}$$

$$\bar{a}_x(t) = \int_0^\infty \int_{s}^\infty p_x(t) v(s,t) ds$$



$$\underbrace{e^{-\int_0^s \mu(x+y,t)dy}}_{\text{mortality}} \underbrace{e^{-\int_0^s \delta(y,t)dy}}_{\text{interest}}$$

$$\bar{a}_x(t) = \int_0^\infty p_x(t) v(s,t) ds$$

$$\dot{\bar{a}}_x(t) = \frac{\partial \bar{a}_x(t)}{\partial t}$$