

## Form of Continuous Time Fourier Series Coefficients

$$x(t) = \sum_{k=-\infty}^{\infty} \left( a_k \cdot e^{j \cdot k \cdot \omega_0 \cdot t} \right) \blacksquare$$

$$a_k := \frac{1}{T} \cdot \int_0^T x(t) \cdot e^{-j \cdot k \cdot \omega_0 \cdot t} dt \blacksquare$$

where

$$\omega_0 := \frac{2 \cdot \pi}{T} \quad \text{and } T \text{ is the fundamental period}$$