

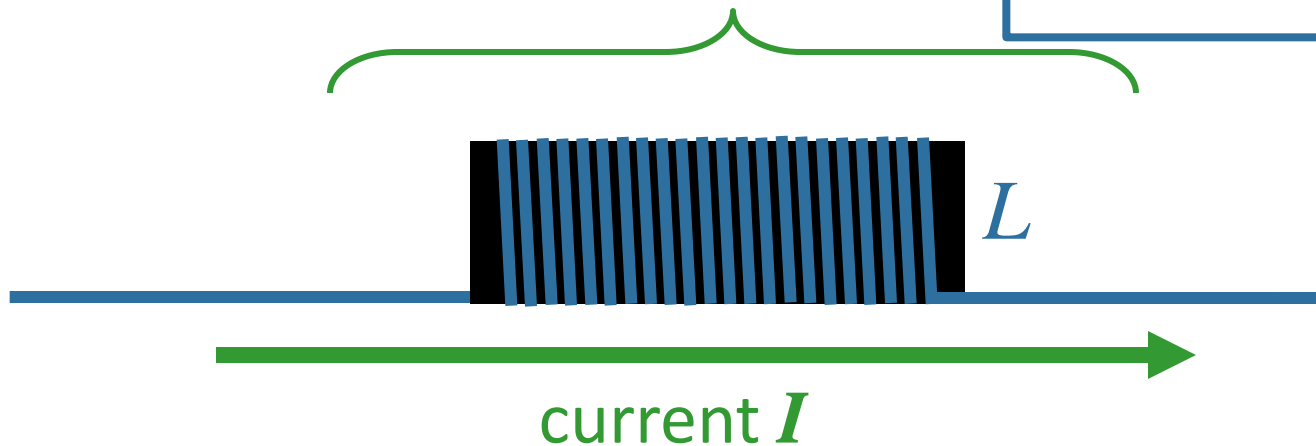
# What this really means:

*emf* induced across  $L$  tries to keep  $I$  constant.

$$\mathcal{E}_L = -L \frac{dI}{dt}$$

Short Term  $I_{\text{before}} = I_{\text{after}}$

Long Term  $V_L = 0$



Inductors prevent discontinuous current changes!

It's like inertia!