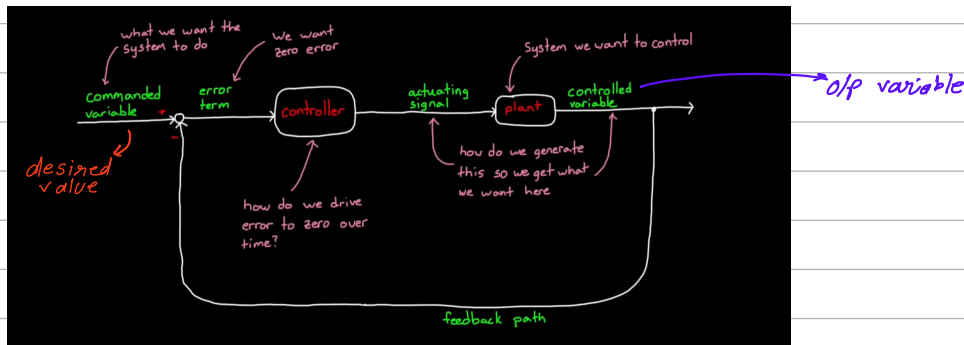
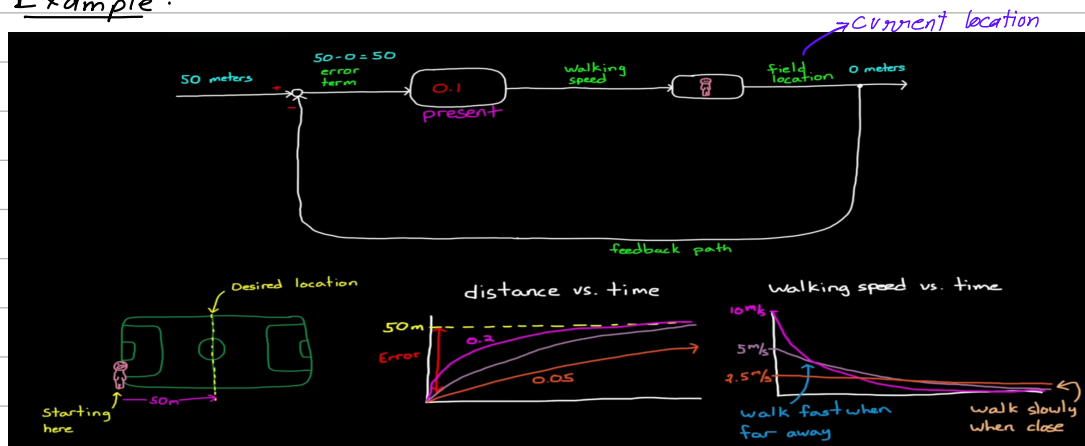


Basics



Example :



Here, Brain is the controller which would decide walking speed (by using error at present speed)

$$\text{error} \times \underbrace{0.1}_{\text{gain}} = \text{walking speed}$$

in starting, error = 50 \Rightarrow walking speed = 5 m/sec
further, it gradually decreases.

in the end, error = 0 \Rightarrow walking speed = 0 m/sec

to change time to reach the end point \Rightarrow change the gain value.