

# CONTROL THEORY

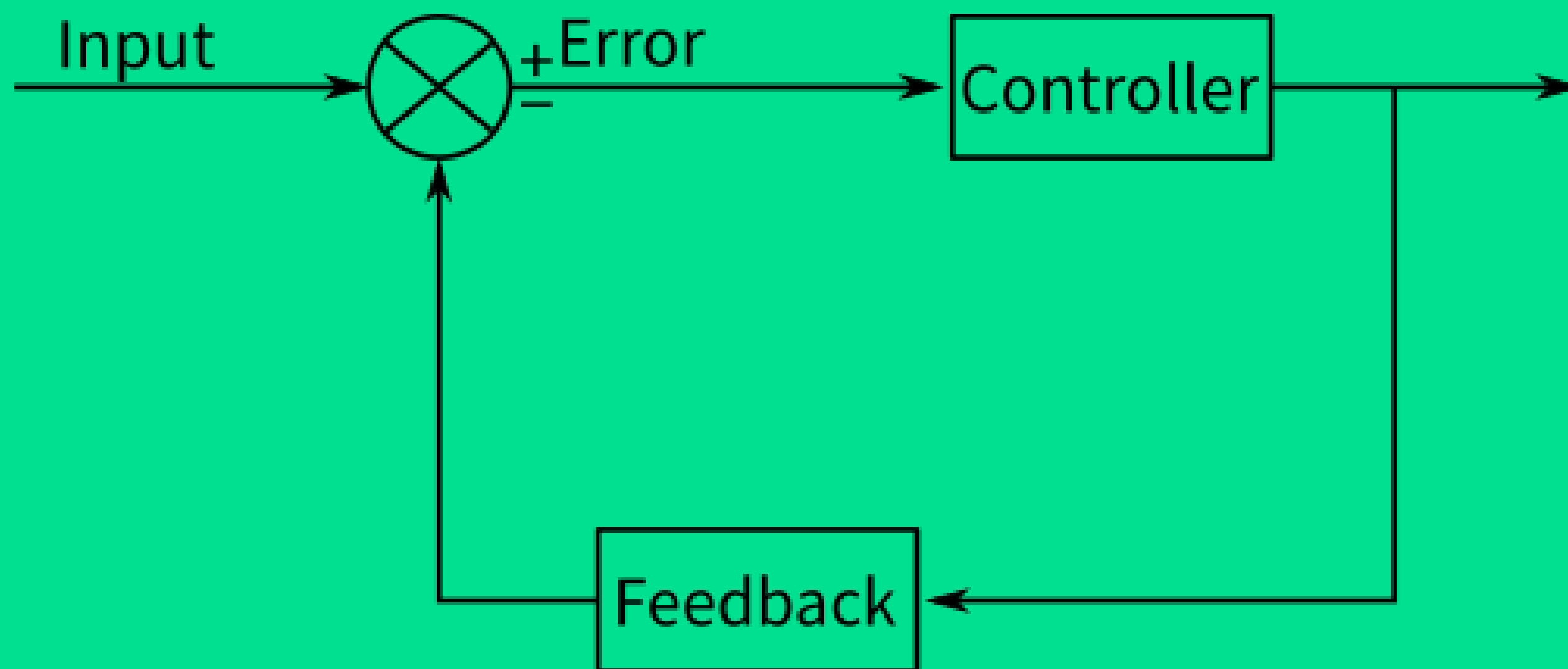
THE SCIENCE OF SHAPING THE OUTPUT OF  
PHYSICAL SYSTEMS

9th NOV, 2019

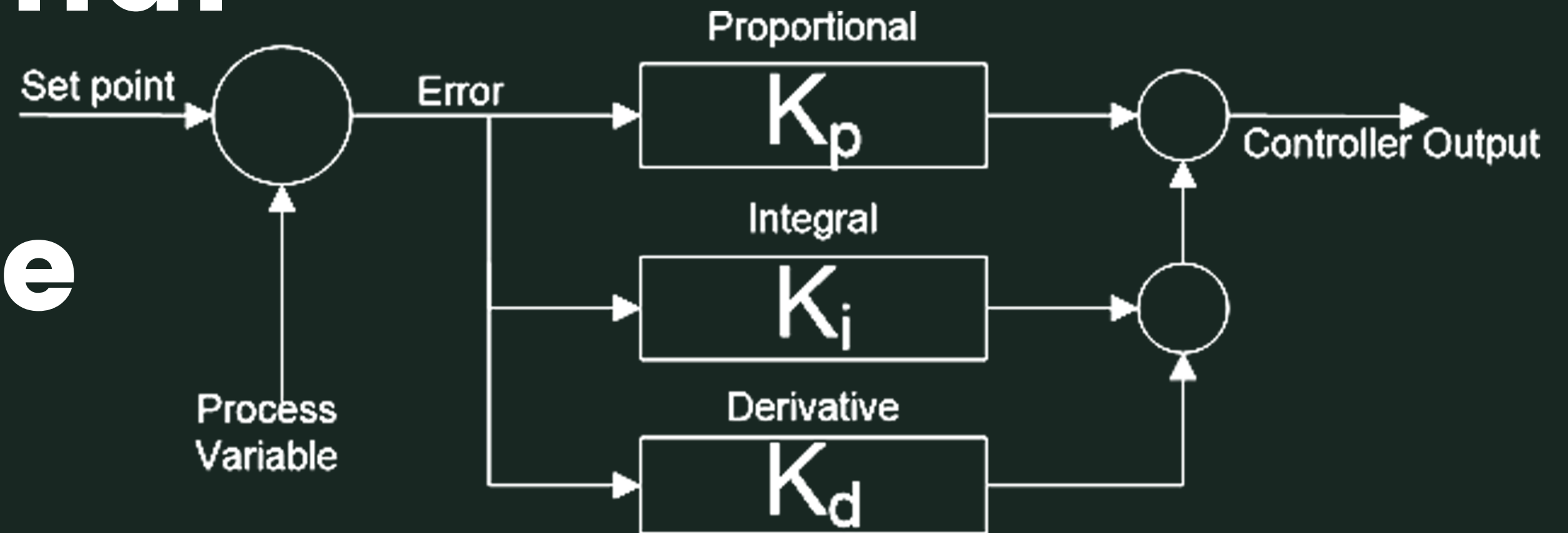
- Building Accurate Models
- Simulating Predictions
- Understanding Dynamic Interactions
- Filtering & Eliminating Noise
- Selecting appropriate hardware
- TESTING
- Understanding the System

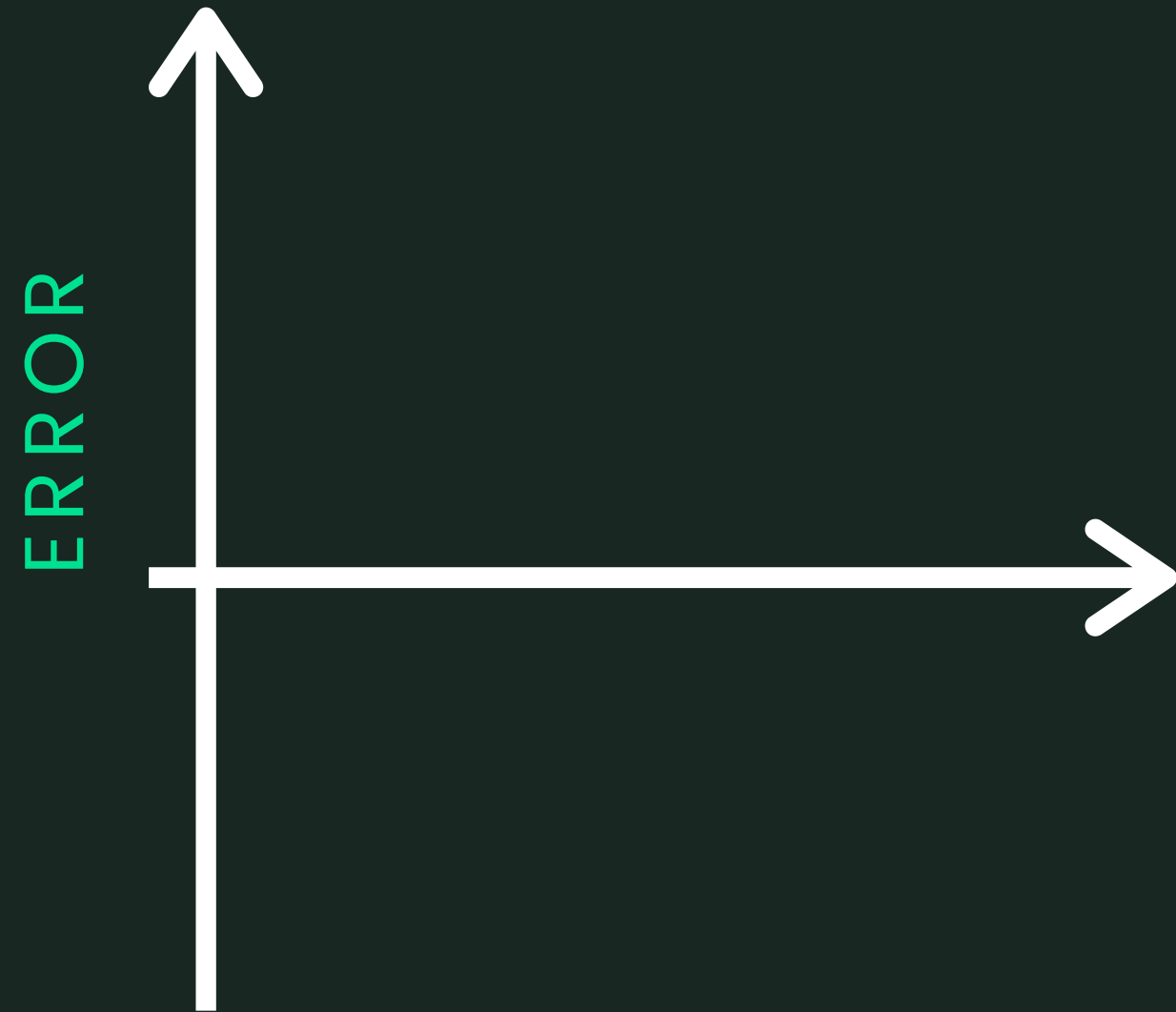
**More than  
abstract  
mathematical  
concepts**



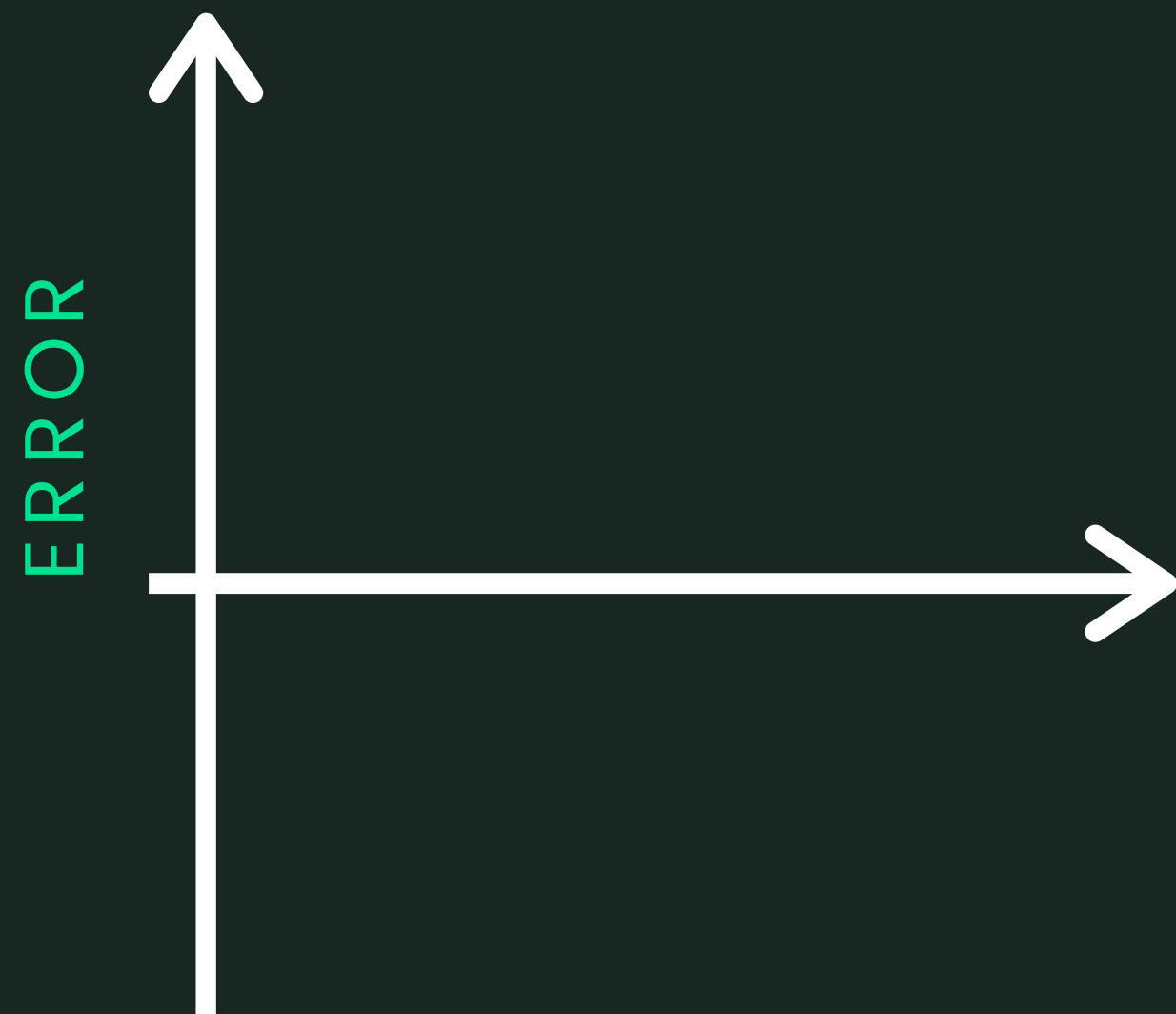


# Proportional Integral Derivative

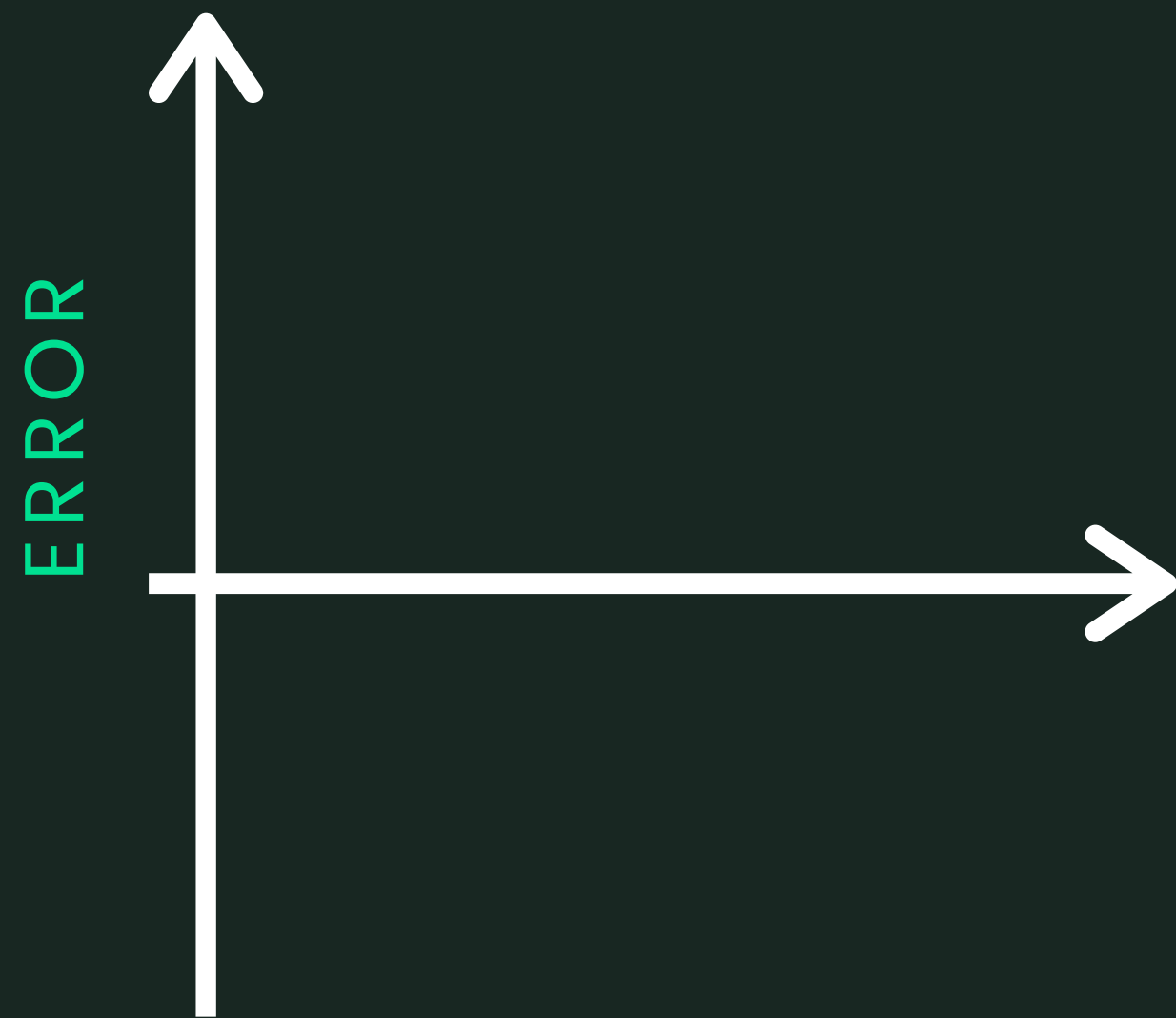




**Proportional**



**Integral**



**Derivative**



# Why PID

- EASY TO IMPLEMENT
- TUNING IS RELATIVELY EASIER
- COMPREHENSIBLE AND MODULAR