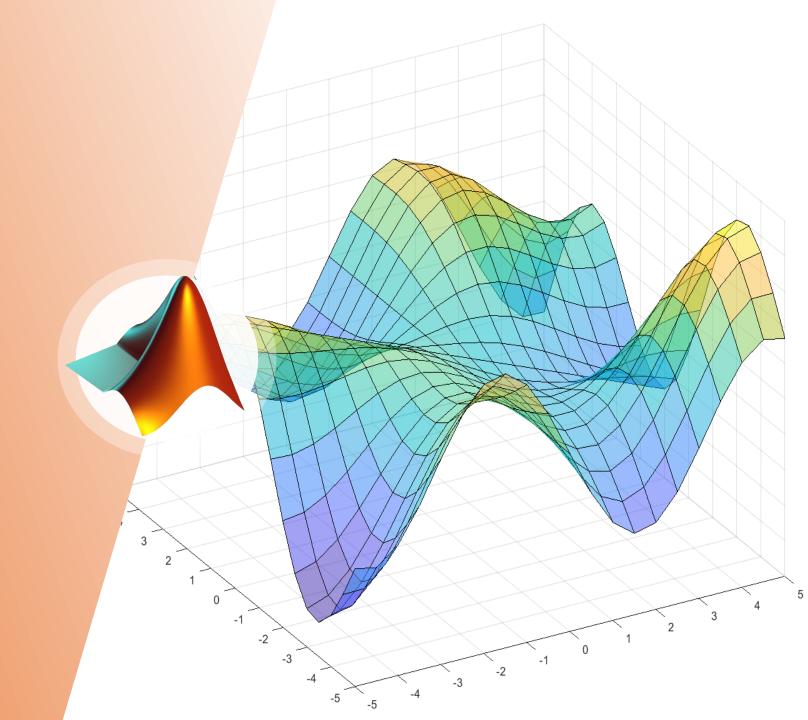
MATLAB

PID Controller

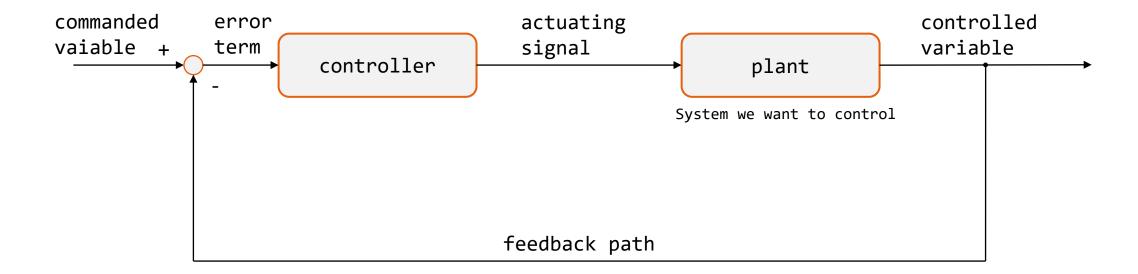
Jannik Wiessler, Daimler Truck AG
Q2 2021

Slides based on Brian Douglas about PII https://bit.ly/2Po5vMU

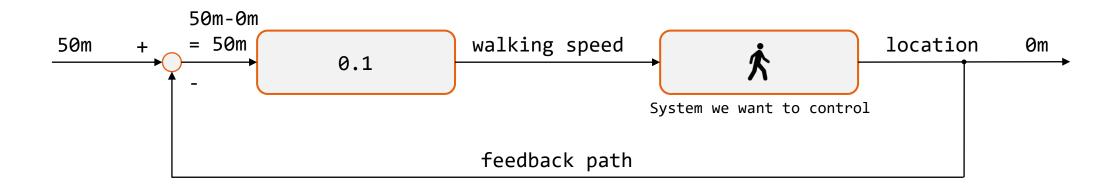
DHBW Stuttgart

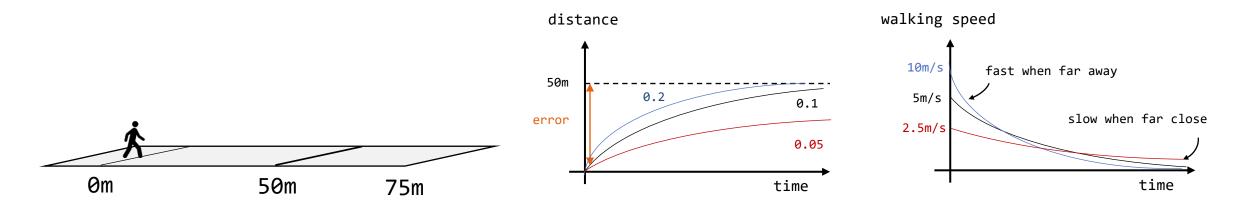


Example 1



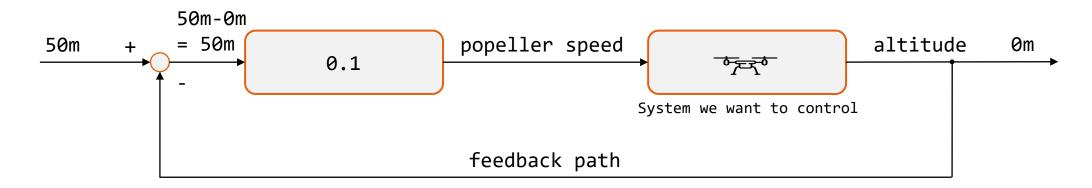
Example 1

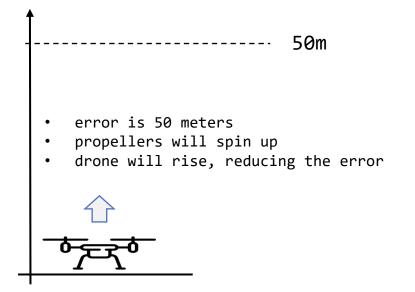


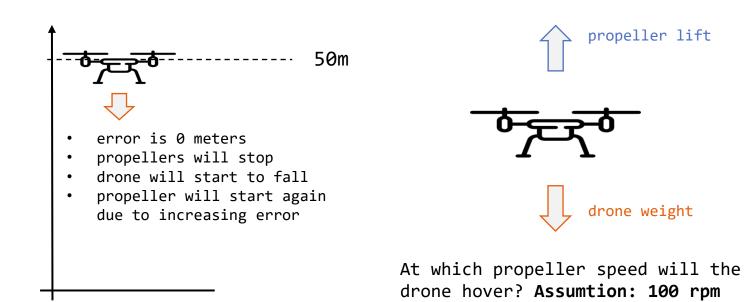


Example 1

Example 2

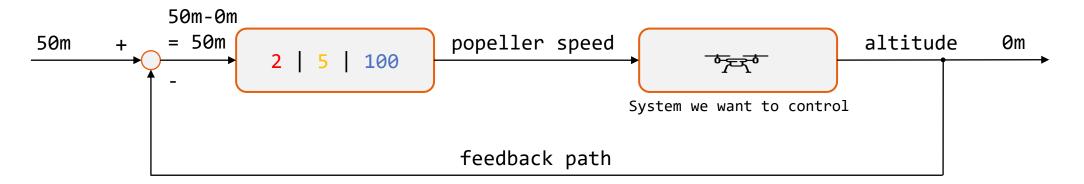


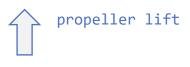




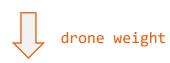
Proportional

Derivative

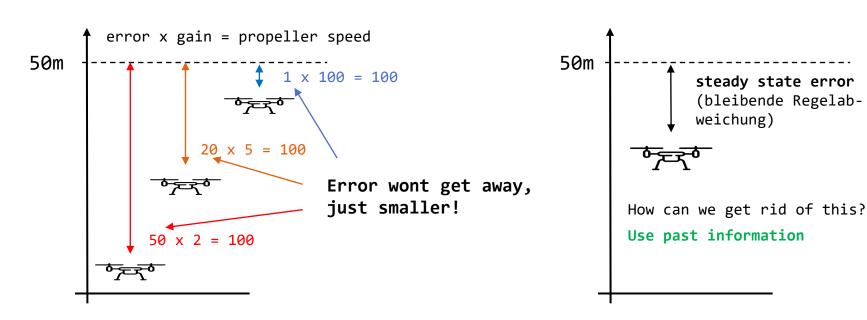


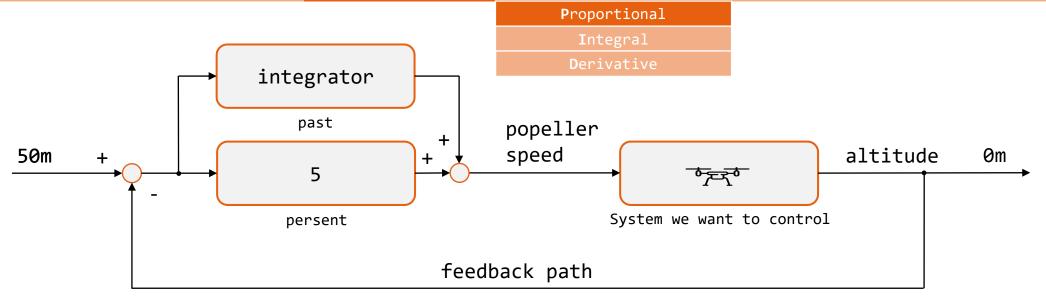






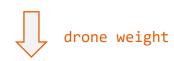
Hovering at 100rpm



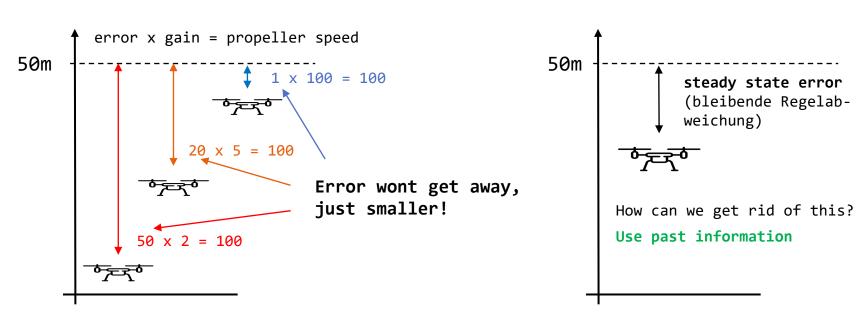




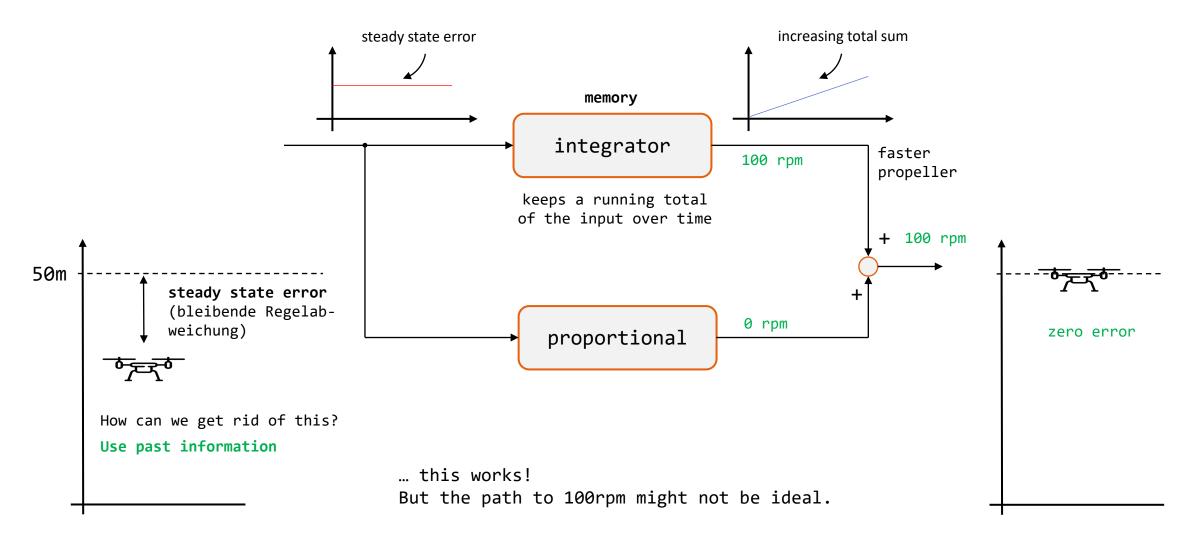




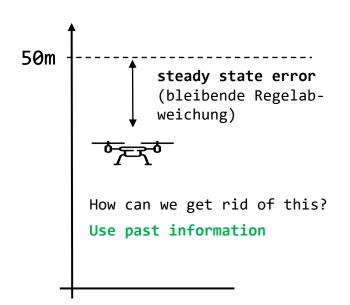
Hovering at 100rpm

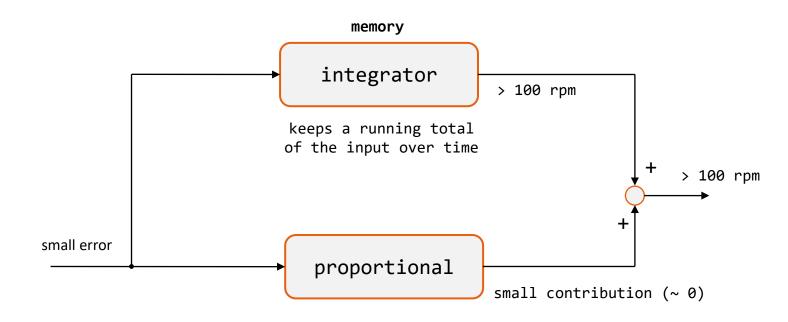


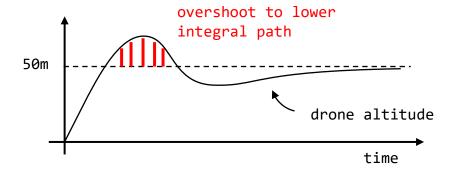
Proportional
Integral
Derivative



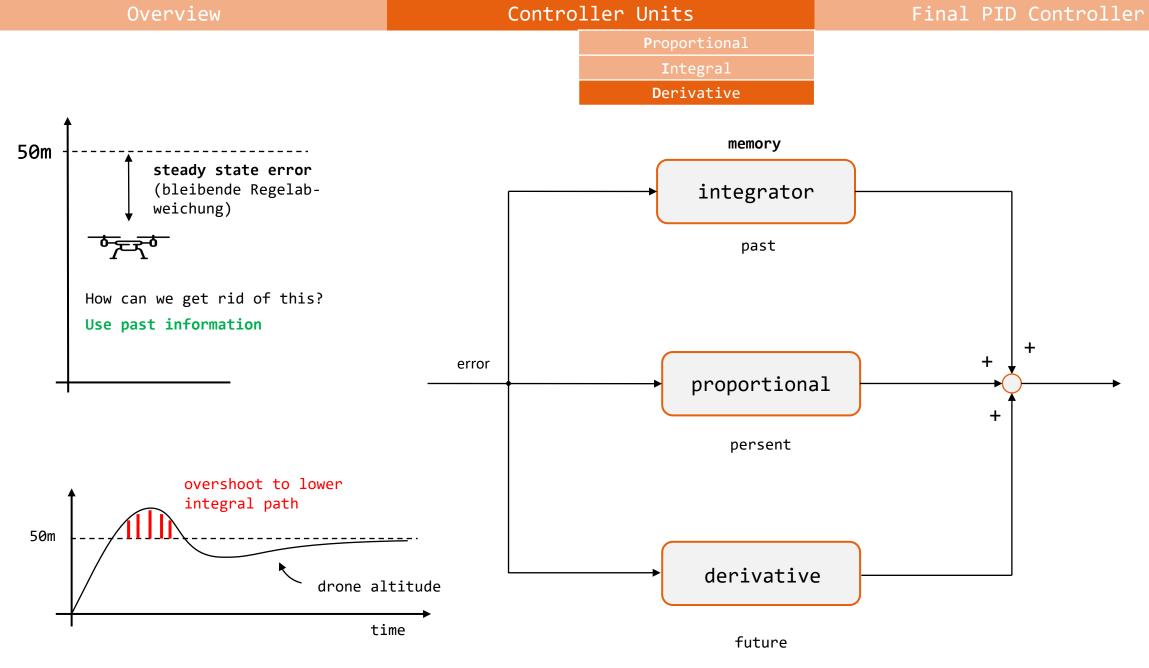
Proportional
Integral
Derivative







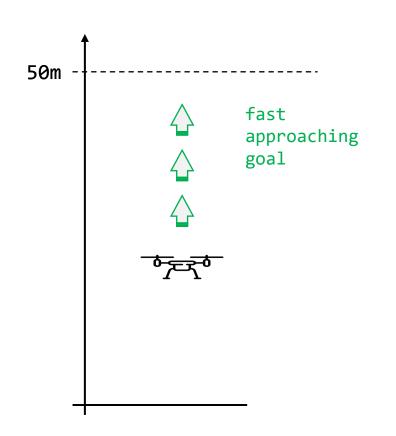
Jannik Wiessler | Matlab (PID Controller)

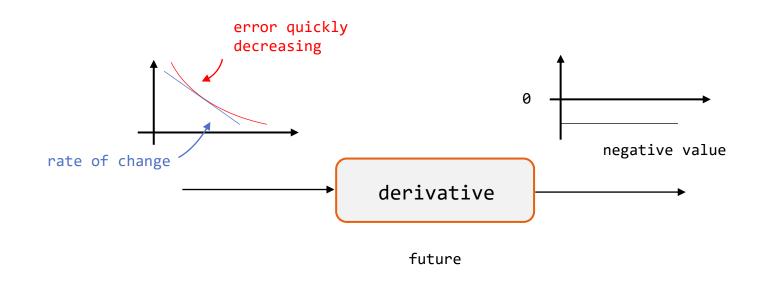


Proportional

Integral

Derivative





- Look at the current rate of change of the error
- Determine how we are approching the goal
- Permaturly slow down the propellers

