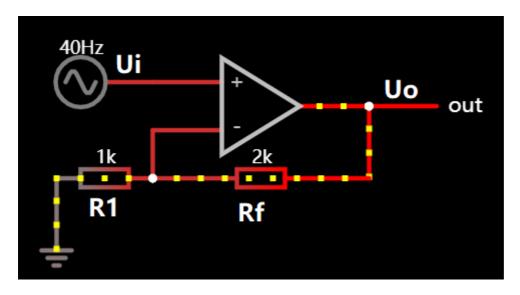
基本计算原则

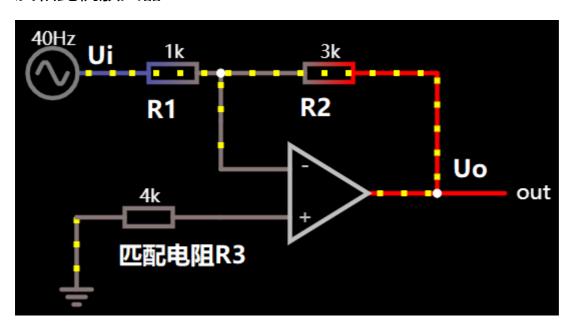
- U+ = U_ = Ui
- I+ = I_ =0

同相比例放大器



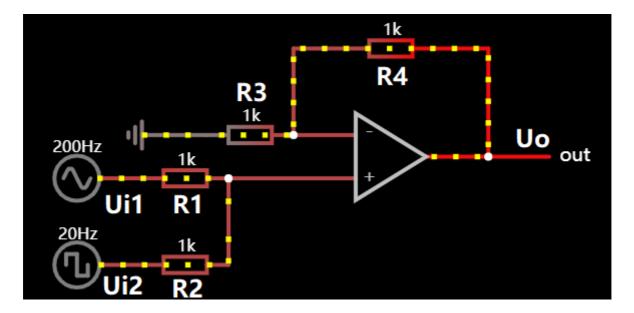
- $(0- U_{-})/R1 = (U_{-} U_{0})/Rf$
- Uo= (1+Rf/R1)Ui

反相比例放大器

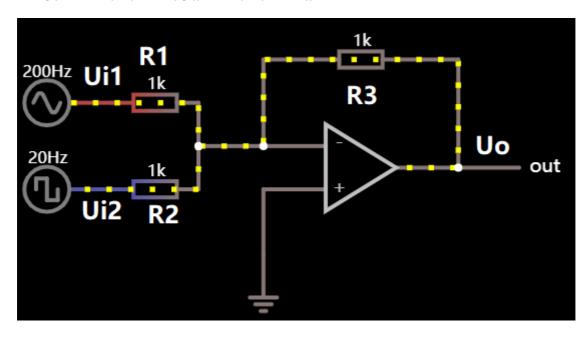


• Uo=- (R2/R1) Ui

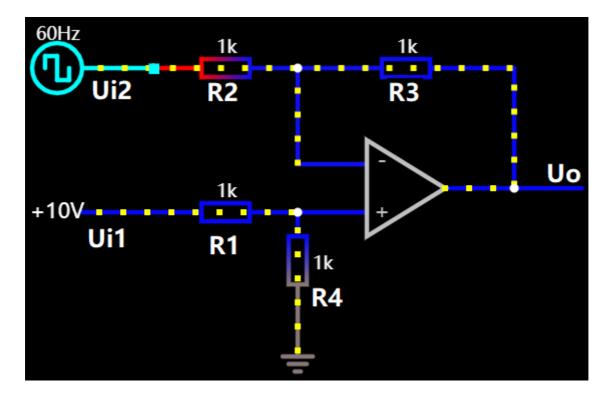
加法器



- 叠加
- Uo=[(1+R4/R3) / (R1+R2)] ((R2*Ui1) +(R1*UI2))

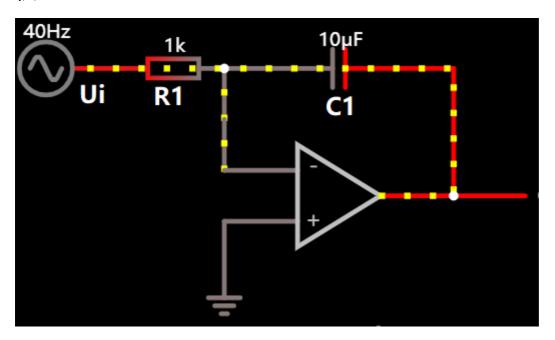


减法器



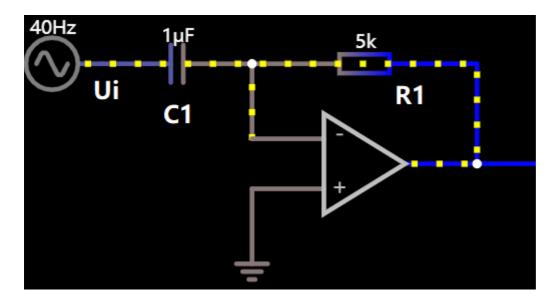
- 叠加
- Uo= (R2+R3/R2) * (R4/R1+R4) * Ui1 (R3/R2)*Ui2

积分器

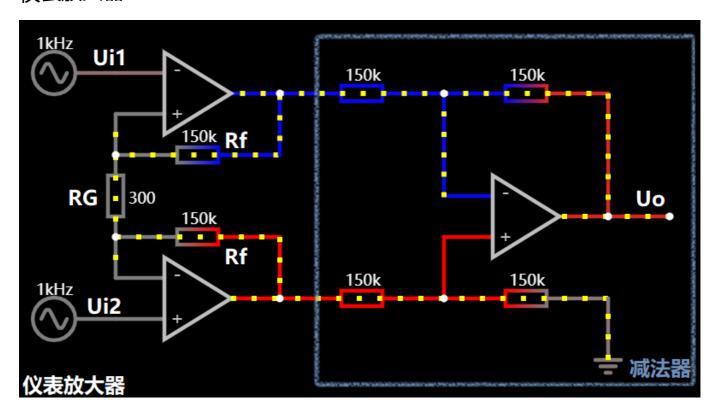


- Uo=-Uc=-q/C =-(∫idt /C)
- i=Ui/R
- => Uo=-1/RC ∫Ui dt
- (例外:差动积分)

微分器



仪表放大器



- Ui2-Ui1= I *(2RF+RG)
- I=(Ui2-Ui1)/RG
- Uo=(1+2RF/RG)(Ui2-Ui1)