



# Computer architecture

6502 interrupts

# Another simulator

- <https://www.masswerk.at/6502/>

# Interrupts

- $\overline{\text{IRQ}}$
- Maskable interrupt
- Finishes the instruction
- Pushes return address to the stack
- Pushes Flags to stack
- Executes instruction from \$FFFE-\$FFFF

# Return from interrupt

- RTI
- Returns from interrupt routine

# NMI

- Cannot be stopped
- Address is \$FFFA-\$FFFB

# Tasks

- Implement infinite loop that will count from \$0 to \$F0
- Implement IRQ handler that will increment \$10 by one each time it is triggered
- Implement NMI handler that will increment \$20 each time triggered
  
- Solve in emulator



**Thank you for  
your attention!**