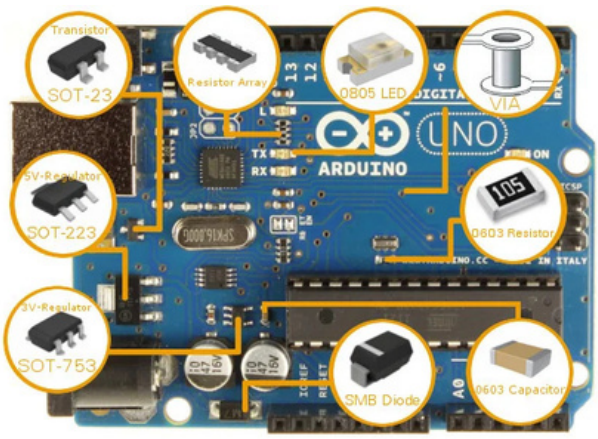
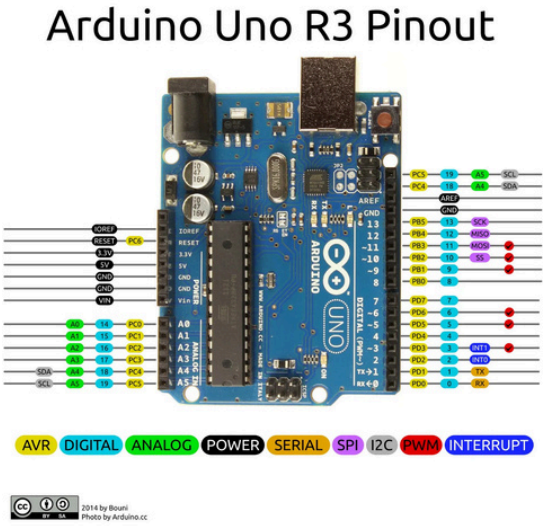
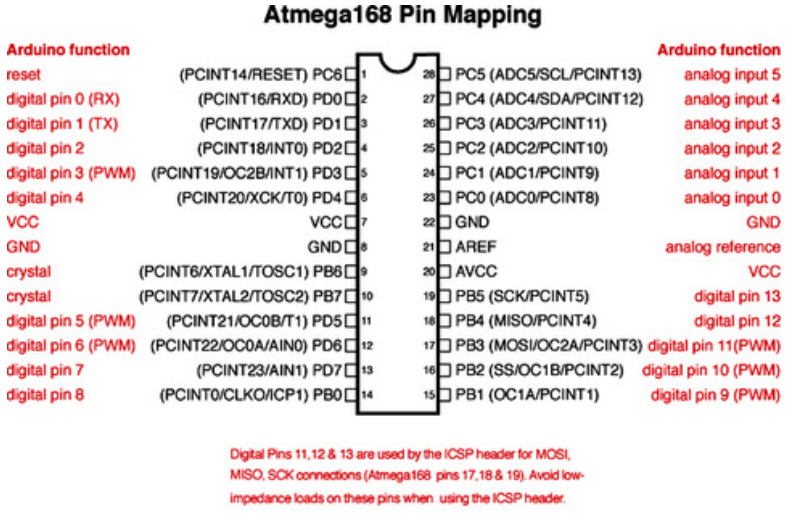
Arduino UNO Overview

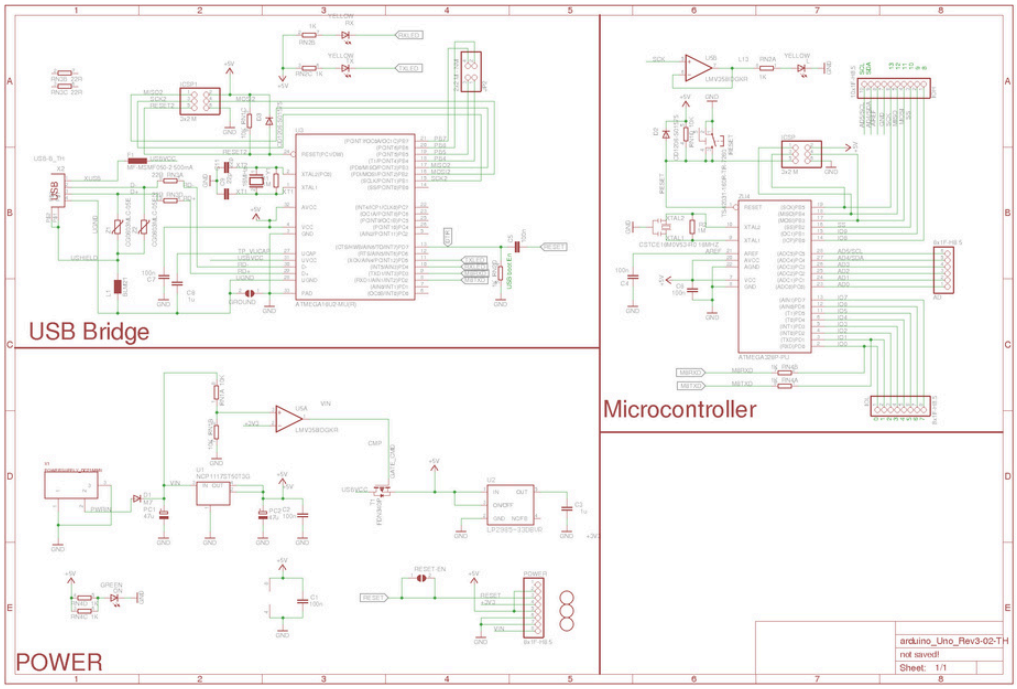




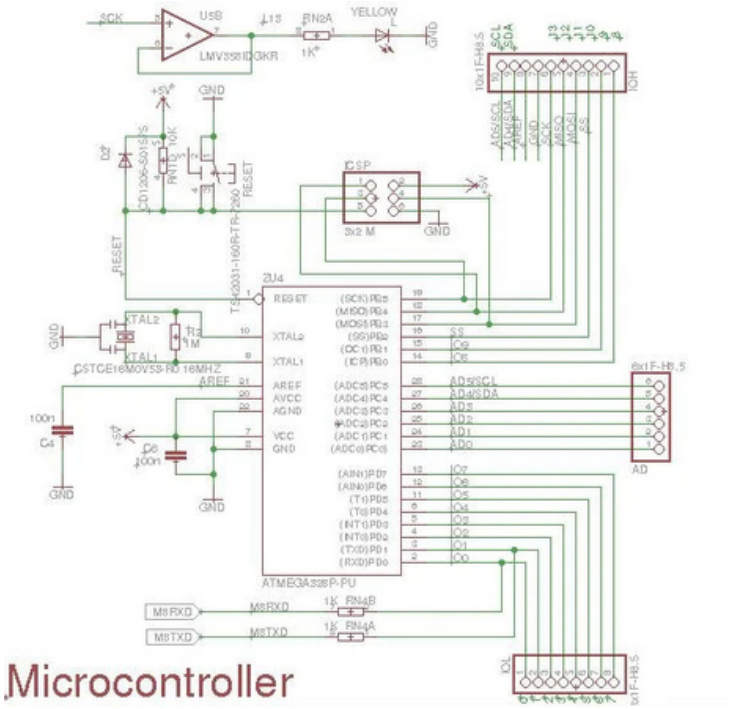
Arduino UNO R3 pinout. Image courtesy of GitHub.



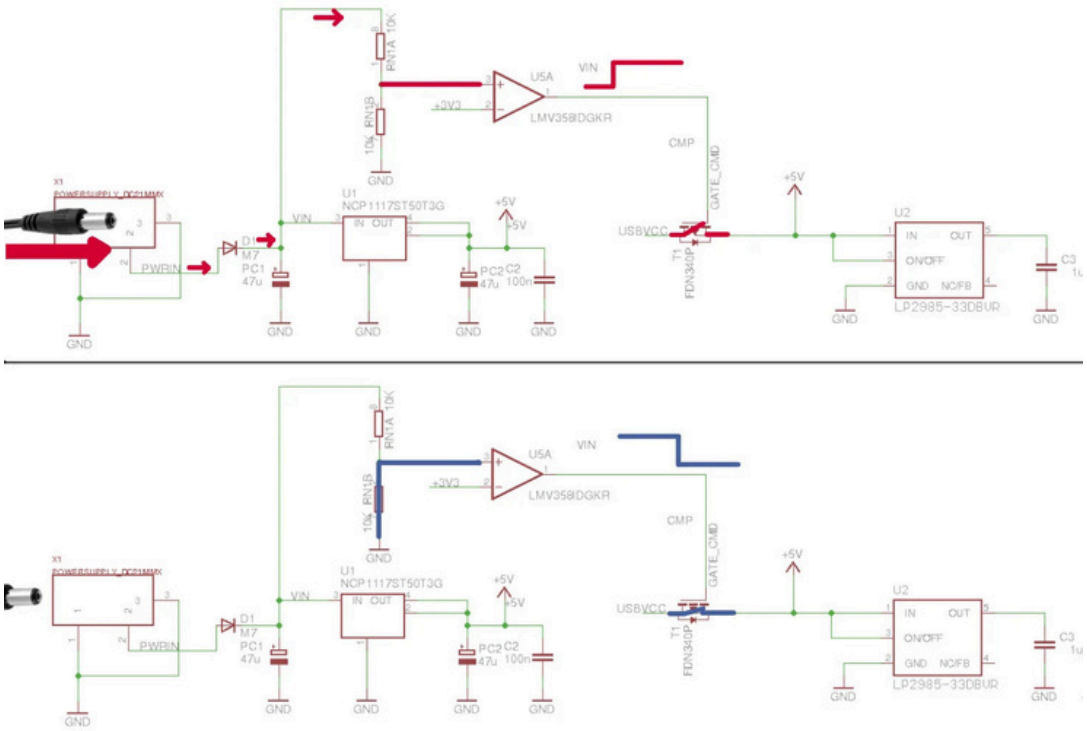
ATmega168 pinout with Arduino labels; the ATmega168 and ATmega328 are pin compatible. Image courtesy of Arduino.



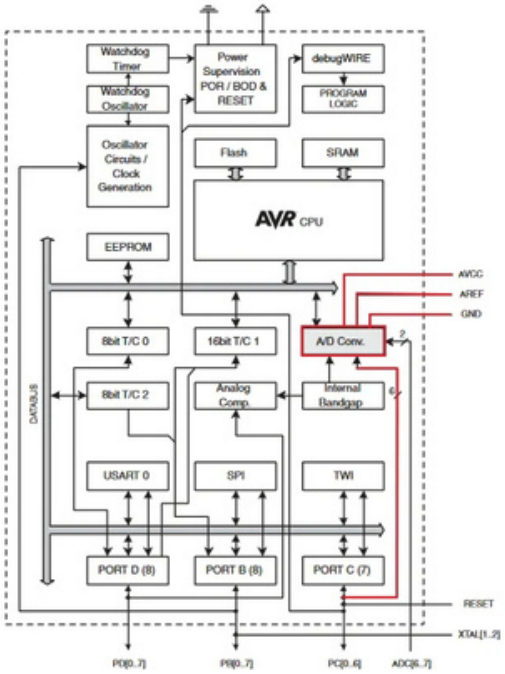
Redistributed version of the original Arduino schematic.



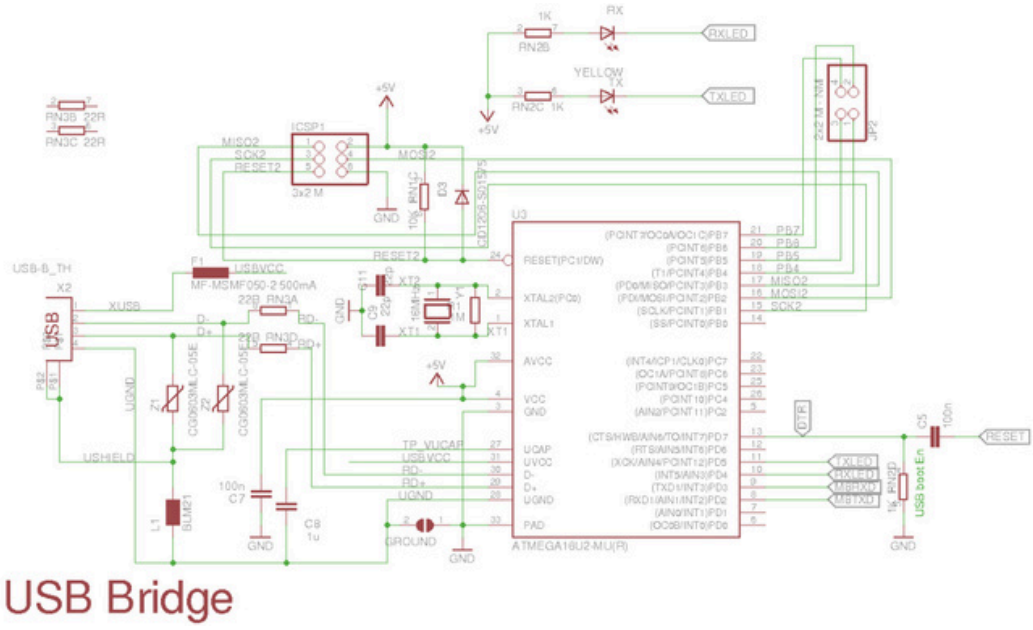
Arduino UNO R3 MCU part.



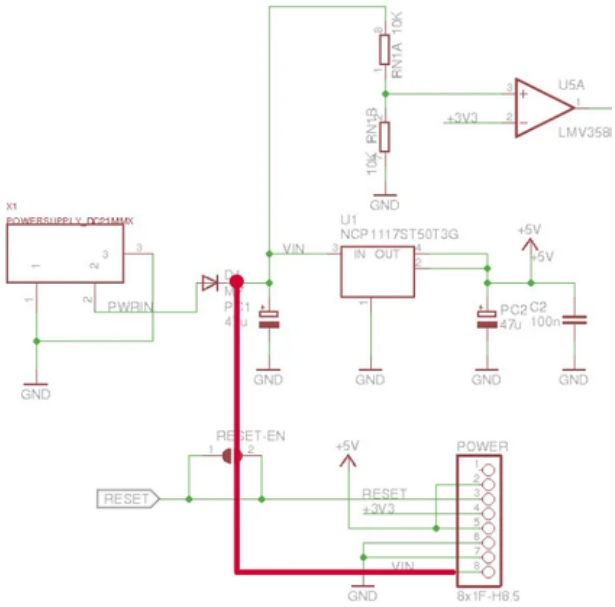
Power source switching mechanism.



ATmega328 block diagram.



Arduino USB bridge part. Click to enlarge.



VIN pin from power header. Click to enlarge.

referance - https://www.allaboutcircuits.com/technical-articles/understanding-arduino-uno-hardware-design/