

Digital Pins and Analog Pins

digitalWrite

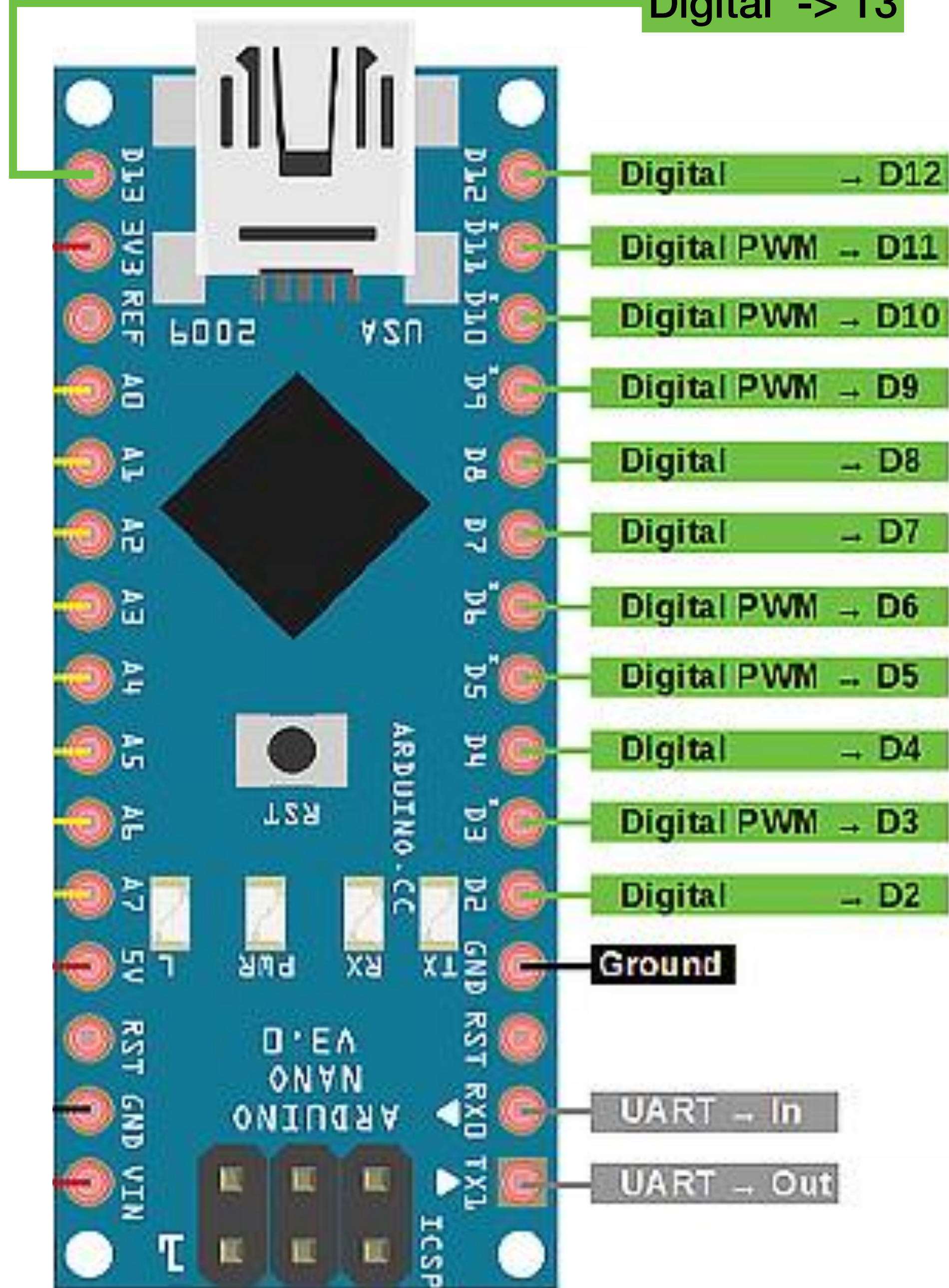
digitalRead

analogWrite

analogRead

Yash Herekar

Digital -> 13



Digital Pins

Digital pins

Digital PWM pins

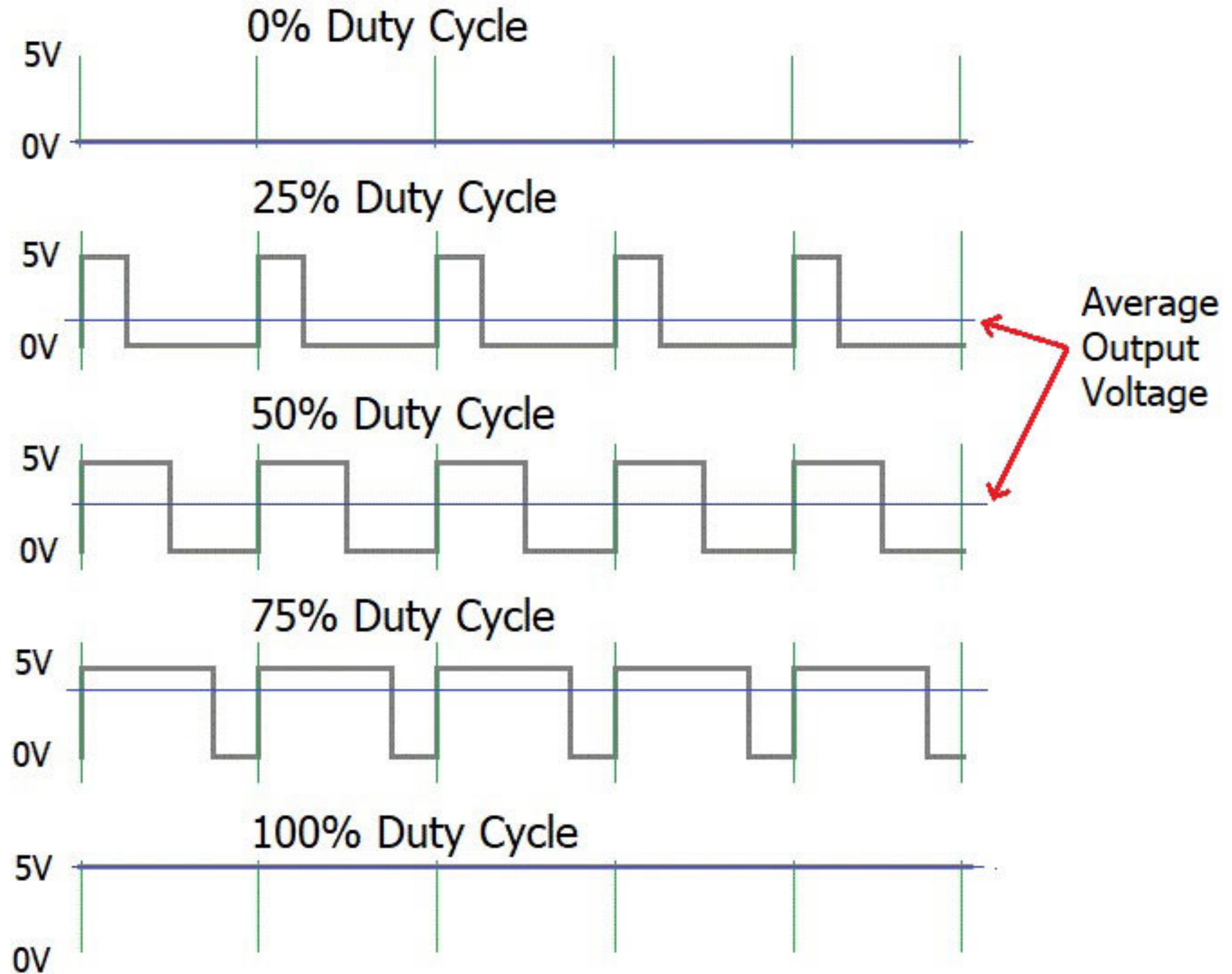
digitalWrite
0 or 1

analogWrite
0 - 255

- Pins 0,1,2,4,7,8,12,13 are only digital pins
- Pins 3,5,6,9,10,11 are digital and PWM

PWM

Pulse Width Modulation



- **digitalWrite(pin, HIGH) HIGH/LOW**
- **digitalRead(pin)**
- **analogWrite(pin, 127) 0 - 255**
- **analogRead(pin)**

Analog pins

ADC

- 10 bit analog to digital converter
- 0 - 2^{10} that is 0 - 1023

Minimum value

0	0	0	0	0	0	0	0	0	0
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Maximum value

1	1	1	1	1	1	1	1	1	1
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- ADC only converts analog to digital signals, you can't output a true analog output, its done through PWM pins