



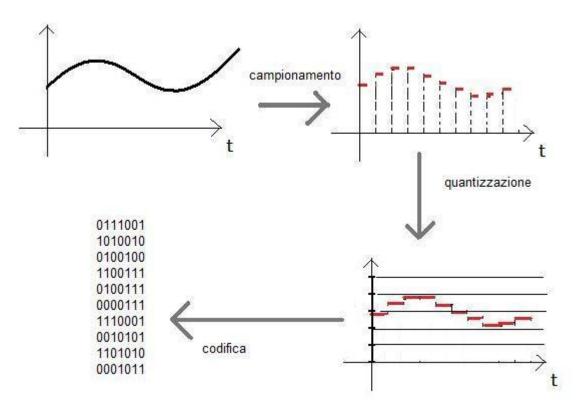




# Esercitazione protesi visive

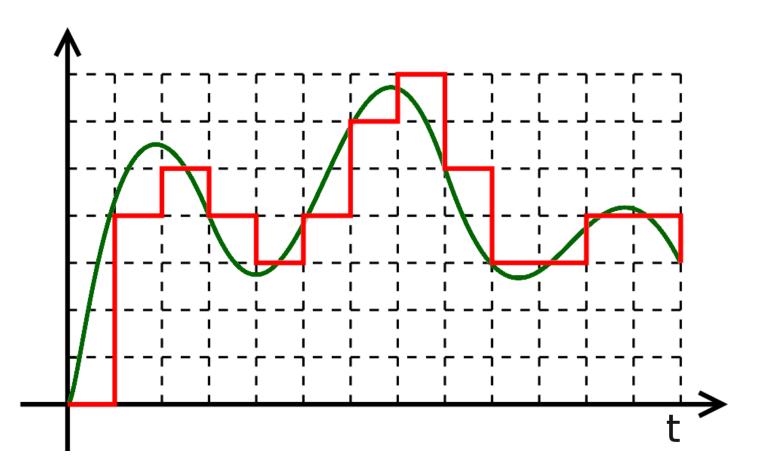
# + Segnali

• Campionamento e quantizzazione

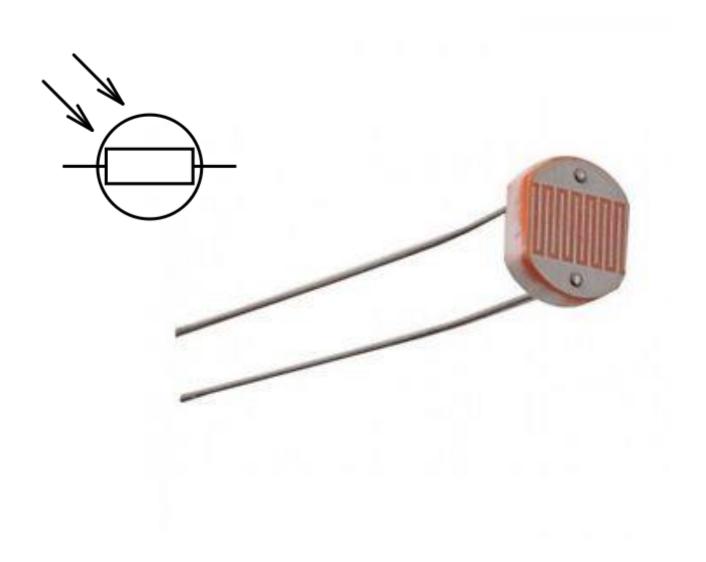


## + Segnali

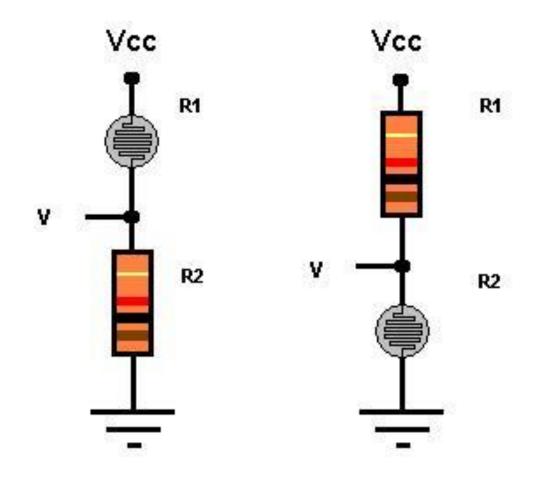
• Campionamento e quantizzazione



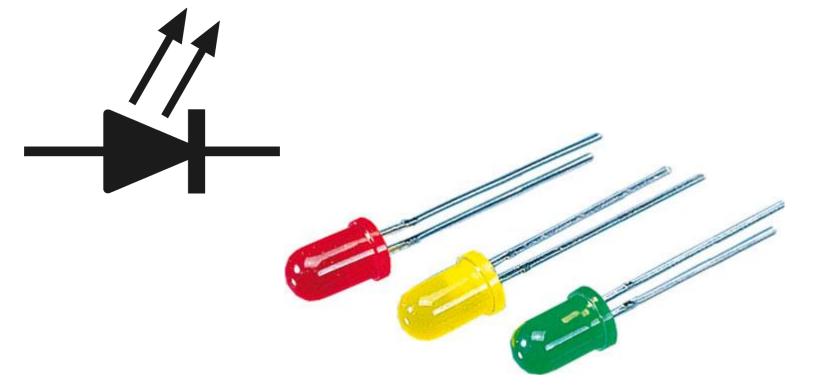
#### + Fotoresistenza



#### + Partitore

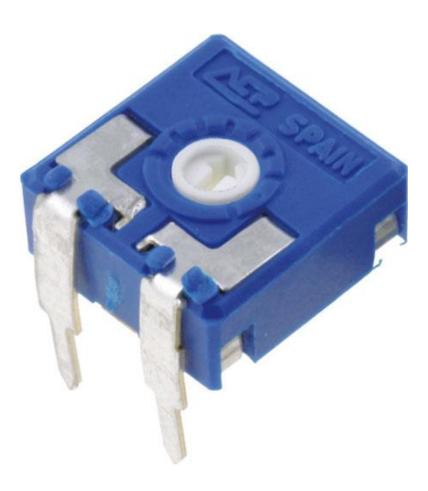




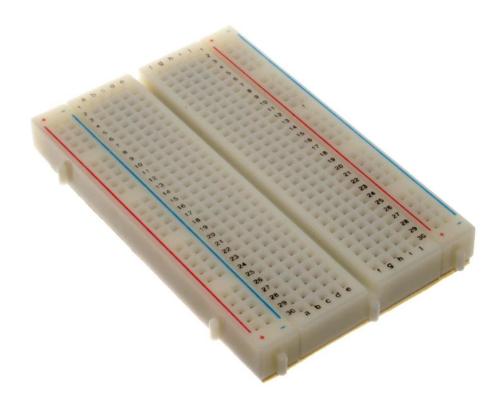




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#### + Breadboard



### + Arduino

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WHAT IS ARDUINO?		
	ARDUINO	CASA
	MADE IN USA BLOC	TO THE CONNECTED HOME
BUY AN ARDUINO	MANUFACTURING	Casa Jasmina is a two-year pilot
	PARTNERSHIP WITH	project in the space of domestic electronic networking, or, the
LEARN ARDUINO	ADAFRUIT ANNOUNCED	Internet of Things in the Home.
		GREATEST
ATHEART	ARDUINO LILYPAD USB,	SHOW & TELL
Designed for makers and	GREAT RESULTS IN	
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recognizable as based on the Arduino technology.		
SHOW OFF YOUR	the state of the state	

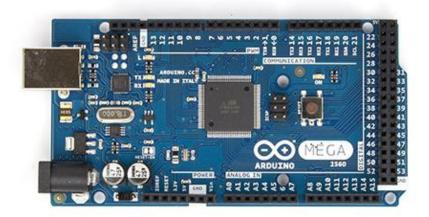
# + Arduino UNO

- The Arduino Uno is a microcontroller board based on the ATmega328.
  - 14 digital input/output pins
  - 6 PWM outputs (8 bit resolution)
  - 6 analog inputs (10 bit resolution)
  - 32 KB Flash Memory (of which 0.5 KB used by bootloader)
  - 2 KB SRAM
  - 1 KB EEPROM
  - 16 MHz ceramic resonator
  - USB connection ICSP header
  - Power jack reset button
- It contains everything needed to support the microcontroller
- simply connect it to a computer with a USB cable or power it with a AC-to-DC adapter or battery to get started.

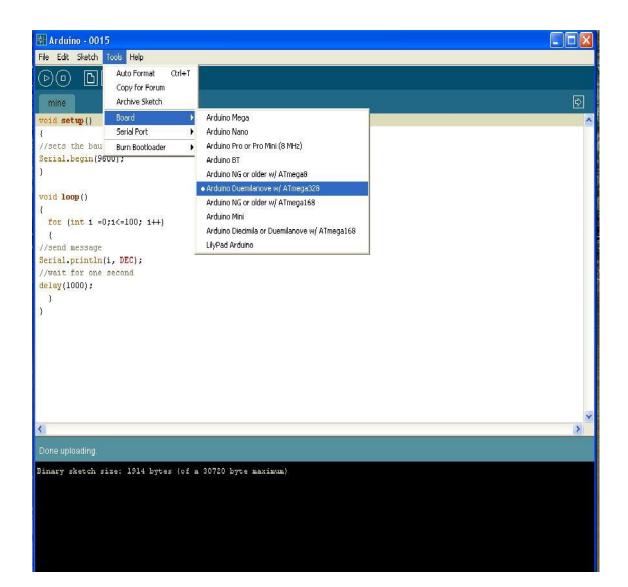


# + Arduino Mega

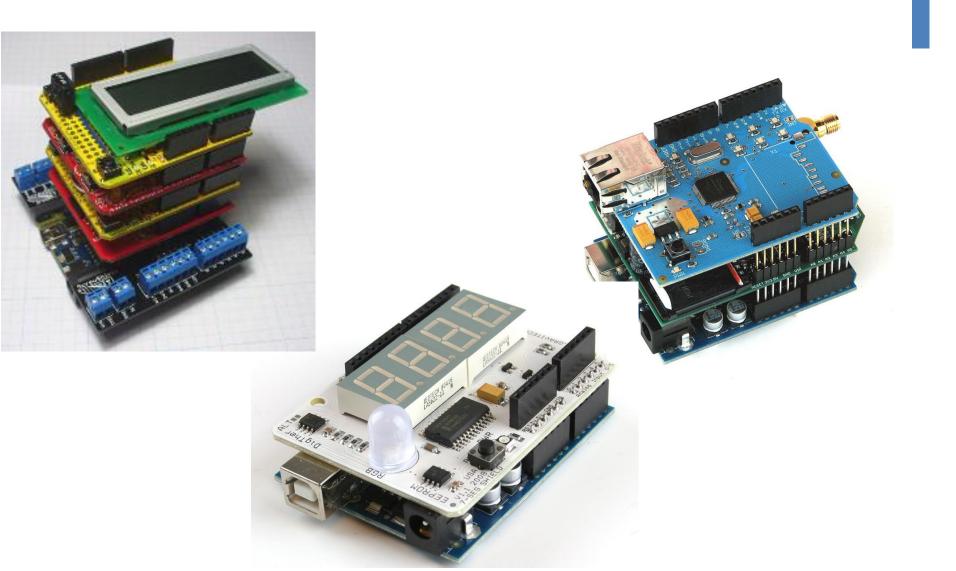
- The Arduino MEGA is a microcontroller board based on the ATmega2560.
  - 54digital input/output pins
  - 15 PWM outputs (8 bit resolution)
  - 16 analog inputs (10 bit resolutio<sup>--</sup>)
  - 256 KB Flash Memory (of which 8 KB used by bootloader)
  - 8 KB SRAM
  - 4 KB EEPROM
  - 16 MHz ceramic resonator
  - USB connection ICSP header
  - Power jack reset button



### + Arduino: IDE



#### + Arduino: shields



#### Difference between microprocessor and microcontroller

- Microprocessor is an IC which has only the CPU inside them. It doesn't have RAM, ROM, and other peripheral on the chip. Application of microprocessor includes Desktop PC's, Laptops, notepads etc.
- Microcontroller has a CPU, in addition with a fixed amount of RAM, ROM and other peripherals all embedded on a single chip.
- Microcontrollers perform specific tasks where the relationship of input and output is defined.
- Microprocessor find applications where tasks are unspecific like software, games, websites, photo editing
- Microcontroller doesn't have video output.
- Microcontroller are programmed with firmware
- Microprocessors run operating systems on which software applications run.

