

# The Pillar Super Book Archetype

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# Illustrations

Part I

My First book



# Lesson 14 – Firmata implementation for the Pharo Programming Language.

Firmata is a generic protocol for communicating with microcontrollers from software on a host computer. It is intended to work with any host computer software package. Right now there is a matching object in a number of languages. It is easy to add objects for other software to use this protocol. Basically, this firmware establishes a protocol for talking to the Arduino from the host software. The aim is to allow people to completely control the Arduino from software on the host computer.

## 1.1 Installation

### Arduino: Installing Standard Firmata

- Your first step should be to download the Arduino application from

**Arduino Website.**<sup>1</sup>

- Be sure to choose the latest version and also the correct download for your computer and operating system.
- Once the software has downloaded, you can install the application using the method appropriate for your system.

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<sup>1</sup><https://www.arduino.cc/en/Main/Software>

- For Mac OS X you will be downloading a ZIP file. Double-clicking on the ZIP should produce a single "Arduino" application file which you can then copy into your Applications folder.
- For Windows, you should download the .EXE containing a full Windows installer. Double clicking on the .EXE should start the installation.
- For Linux you will download a compressed TAR file. You can use the "tar" command to uncompress and unpack the application.

## Pharo with Firmata

To load latest version of Firmata you can evaluate the following expression in playground:

```
Metacello new
baseline: 'Firmata';
repository: 'github://pharo-iot/Firmata';
load
```



# Bibliography

