

# **Preface – Getting Started**

Welcome to the world of Grove! Grove is a collection of various modular sensors and actuators that help you dive in and enjoy the electronics world with ease. Before we discuss our Grove modules in detail, we want to outline some basic tools and preparatory steps that you will need to complete first.

For more information go to: wwww.seeedstudio.com

## Catalogue

1. What is Arduino? ·····	1
2. Arduino IDE Installation ·····	2
3. Language Reference ······	3

#### 1. What is Arduino?

Arduino is a flexible and easy-to-learn open source, development platform that is very popular among makers, hobbyists, and interactive artists. It ignited the maker movement and enabled people to bring to life tons of creative projects. It also sparked a collaborative community that provides a supportive environment and thrives on further development and innovations, like our Grove system. Moreover, Arduino is the backbone of our Grove system and is the programming environment that will be used to enable your Grove modules.

To get started, you will need to purchase an Arduino, if you haven't already. Arduino and its clones are available on countless websites and can even be found in retail stores. You can buy them at the official Arduino site or follow the links on that site to purchase them from distributors, like Seeed Studio. Google search will turn up other options, as well.

To get started, you will need to purchase an Arduino, if you haven't already. Arduino and its clones are available on countless websites and can even be found in retail stores. You can buy them at the official Arduino site or follow the links on that site to purchase them from distributors, like Seeed Studio. Google search will turn up other options, as well.

#### 2. Arduino IDE Installation

Arduino IDE (integrated development environment) is C/C++ based developmental programming software for the Arduino board. After purchasing your Arduino, you will need to install the Arduino IDE on your computer. The IDE can be installed on Mac OS X, Windows XP, Windows Vista, Windows 7, and various Linux operating systems. Installation instructions are broken down by operating system and sometimes more detailed instructions are provided for a specific Arduino model. Thankfully the Arduino team provides us a detailed installation guide for most environments: http://arduino.cc/en/Guide/HomePage.



search

Download Getting Started Learning Reference Products FAQ Contact Us

#### Getting Started with Arduino

Introduction: What Arduino is and why you'd want to use it.

Installation: Step-by-step instructions for setting up the Arduino software and connecting it to an Arduino Uno, Mega2560, Duemilanove, Mega, or Diecimila.

- + Windows
- + Mac OS X
- + Linux (on the playground wiki)

Environment: Description of the Arduino development environment and how to change the default language.

Libraries: Using and installing Arduino libraries.

Instructions for other boards:

- + Arduino BT
- + Arduino Due
- + Arduino Fio
- + Arduino Leonardo and Micro
- + LilyPad Arduino
- + Arduino Mini
- + Arduino Nano
- + Arduino Pro
- + Arduino Pro Mini
- + Ethernet shield

### 3. Language Reference

What if you are unfamiliar with the programming language? The Arduino team provides a well thought-out, comprehensive web site that breaks down the commands into three different categories: structure, variables and functions. Each command is explained in simple terms and illustrated with sample code. In fact, the easiest way to learn Arduino is to start with the sample code and then modify for your specific needs. For more information please see <a href="http://arduino.cc/en/Reference/HomePage">http://arduino.cc/en/Reference/HomePage</a>.



Now you are ready to explore the world of Grove!

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Seeed Studio Accessories category:

Click to view products by Seeed Studio manufacturer:

Other Similar products are found below:

101990565	101990564	101020003	101020004	101020025	101020028	101020038	101020058	101020472	101020580	101990029
101990058	101990059	101990061	101990064	101990065	102020143	102070002	102070004	102070007	102070008	102070011
102991175	102991176	102991319	103010002	103020005	103020007	103020008	103020010	103020012	103020030	103020132
103020133	103020135	103020136	103020137	103020252	103020272	103030005	103030009	103030075	103030275	103030276
103030335	103100063	103990183	103990445	104020006	104020048					