

Arduino Training 2014

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Class Goals - One Day

- ▶ Introduce the Arduino to everyone
- ▶ Look at some cool projects you can do!
- ▶ Setup and orient students in the Arduino IDE
- ▶ Upload to an Arduino Uno
- ▶ Start basic tutorials
 - ▶ Blink a RGB LED (Chapter 1)
 - ▶ Blink a series of LED's (Chapter 2 LED Matrix)
 - ▶ Oscilloscope Tool (Chapter 3)
 - ▶ Control the Arduino from Android (Chapter 4)
 - ▶ LED Switch (Chapter 5)

Software Preparation

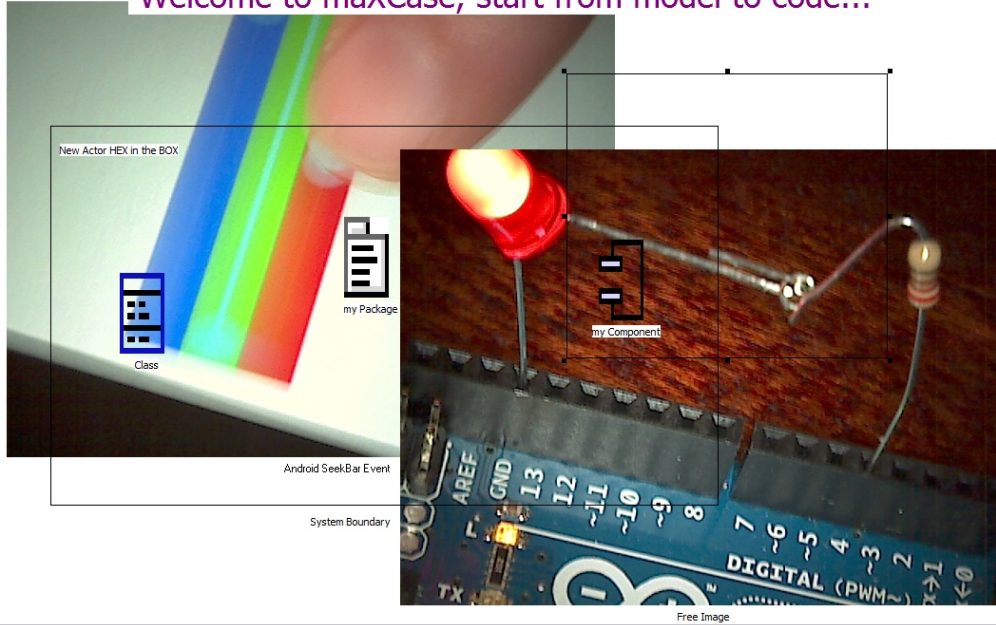
- ▶ What is a Sketch and how to install?

Recommend starting with:

- ▶ “Learning Arduino” by Alan G. Smith
 - ▶ <http://introtoarduino.com/>
 - ▶ <http://arduino.cc/en/Guide/HomePage>
 - ▶ <https://github.com/maxkleiner/maXbox3/releases>
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- ▶ Full language reference available:
 - ▶ <http://arduino.cc/en/Reference/HomePage>



Welcome to maXCase, start from model to code...



Tutorials

[Arduino Web of Things Tutorial](#)

Applications

- ▶ Light control
- ▶ Motor control
- ▶ Automation
- ▶ Robotics
- ▶ Networking
- ▶ Paradise Polygraph
- ▶ Web of Things
- ▶ Custom protocols
- ▶ Your imagination is the limit...



Practical Applications



<http://arduino.cc/hu/Tutorial/HomePage>

http://www.softwareschule.ch/download/Arduino_C_2014_6_basta_box.pdf