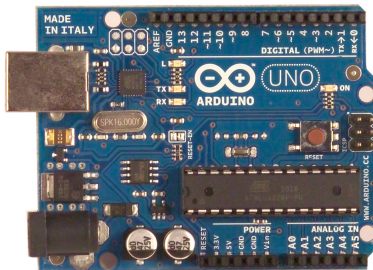# Why the Arduino is Here to Stay

Thomas Swartz

The University of Scranton

September 11, 2011

What exactly is the Arduino?

Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software.
It's intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments.

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That makes for a total of 150,000 Arduinos (and 150,000 projects) in 3 years

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- Arduino projects can be stand-alone or they can communicate with software on running on a computer (e.g. Flash, Processing, MaxMSP).

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- The hardware reference designs (CAD files) are available under an open-source licenses

What can you do with an Arduino?

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ANYTHING

A Coffee Pot That Tweets When It's Done
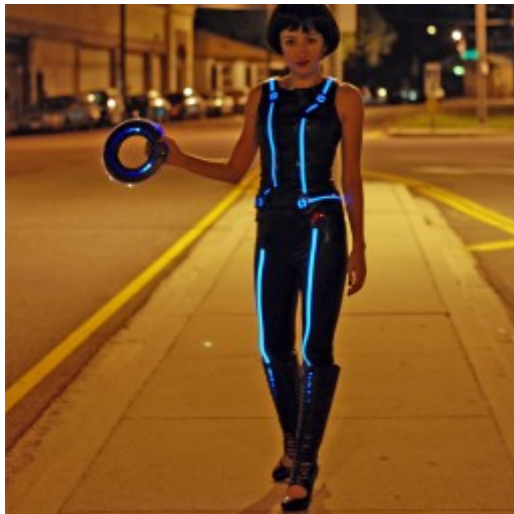
A Jeopardy Game Using Staples Easy Buttons
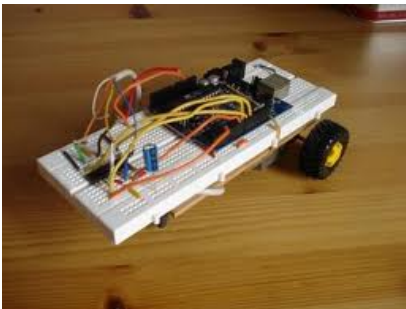
A Portal Gun

A Metroid Gun

A (Sexy) Tron Costume

A Wearable Turn Signal for Biking

A Simple Robot

An Even Better Robot

A Word Clock

So Why is it So Successful?

It Just Works

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There is So Much Support

Anything you want to do is available to learn and create
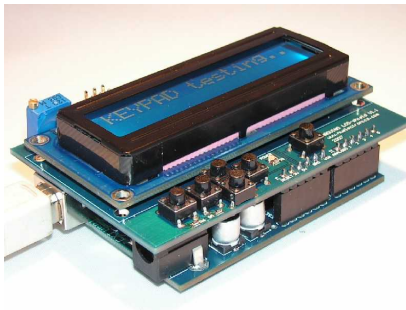
How Does it Compare to What We Use Now?

Lets Compare:

	Arduino	C-Stamp	Basic Stamp
Cost	$25	$100	$50
Number of Pins	26	20	14
Voltage	1.5 – 24 V	3 – 24	3 – 24
RAM	30 Kb	32 Kb	32 Kb
Programming Interface	USB	Serial	Serial

Questions?

Real Life Demo

- RGB Color Mixer
- KITT
- Special Treat