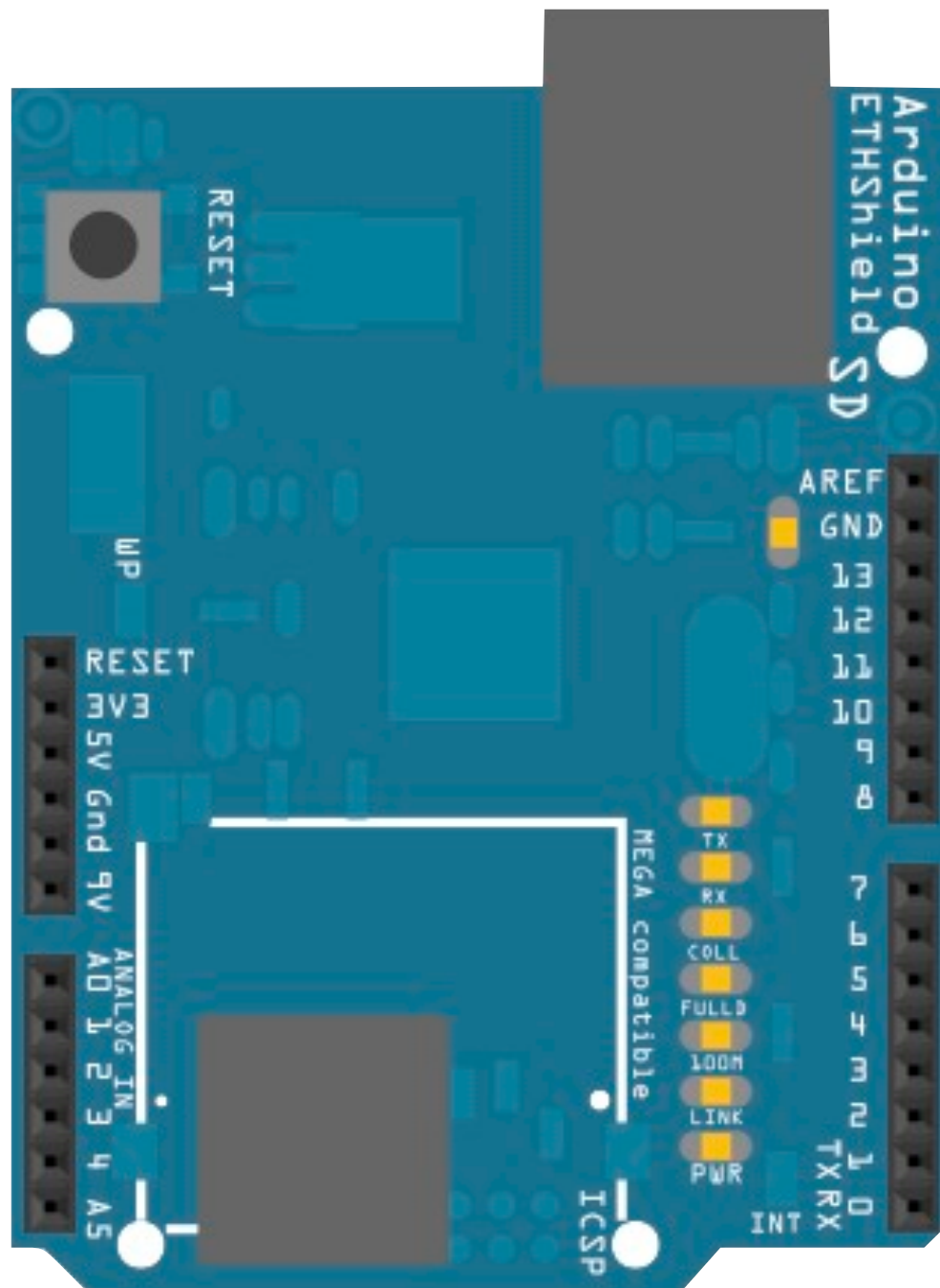


DIY Server Status Thingy

@jtzemp - slide rule labs

Arduino Uno Benefits



- Open Source Hardware & Software
- huge community
- lots of libraries
- sense and react to environment
- interface with other systems

Arduino Uno Features

- Atmel Atmega 328 Microcontroller
- 32k Flash (program storage)
- 1k EEPROM
- 16 MHz clock speed
- 7-20 vdc in (battery or transformer)
- 5 vdc out (40ma /pin)
- 3.3vdc out (50ma /pin)
- 14 Digital In/Out (6 PWM)
- 6 Analog In
- USB Serial
- C-like language
- Cross-platform IDE
- I2C & SPI

Let's Go!

1. Download & install Arduino software:
IDE: <http://bit.ly/ard-download>
2. Connect Ard w/USB and select 'Uno' board type from *Tools*
> *Board*
3. Open example file
File > *Examples* > *1.Basics* > *Blink*
4. Config serial port
Tools > *Serial Port (/dev/tty.usbmodem.*)*
5. Click Upload button in IDE
6. Watch the blinky!

Let's Go II

- LED Kit Instructions:
<http://www.sparkfun.com/tutorials/299>
or in PDF in git repo
- git clone <https://github.com/jtzemp/MVRC-2012-hardware-hacking.git>