NTAduino baby steps



https://github.com/makerspacelt/NTAduino

What is NTAduino?



Almost like Ardunio

Advantages

- Single chip design
- All thru hole components
- Built in leds/buttons
- Cheap

Disadvantages

- Has no usb -> uart support
- Single power option
- Needs a modified arduino IDE

Getting started

- Download arduino IDE :)
 http://arduino.cc/Main/Software
- Download our patch
 <u>https://raw.githubusercontent.com/m</u>
 <u>akerspacelt/NTAduino/master/arduino</u>

patch/hardware/arduino/boards.txt

- 3. Place the boards.txt into yout ardunino folder
 - arduino_location/hardware/arduino/b
 oards.txt
- 4. Launch Arduino;)
- 5. From Tools->Board select NTAduino

Coding NTAduino



Language

- Based on C programing language
- Everything starts in void setup()
- Everything runs in void loop()
- Programs are called sketches
- Great place to start is arduino example sketches

Pins



Troubleshooting

- Window could need a driver http://www.fischl.de/usbasp/
- 2. Linux will probably need root permissions for usb

```
SUBSYSTEM=="usb",
ATTR{product}=="USBasp",
ATTR{idProduct}=="05dc",
ATTRS{idVendor}=="16c0",
MODE="0666"
```

Workshop time