Wireless made **easy**

Easily **control** anything from your phone or tablet via **bluetooth**.

The **BLEduino**

A tiny **Arduino-Compatible** development board with **Bluetooth 4.0**, a.k.a. Bluetooth Low Energy (BLE), built in.

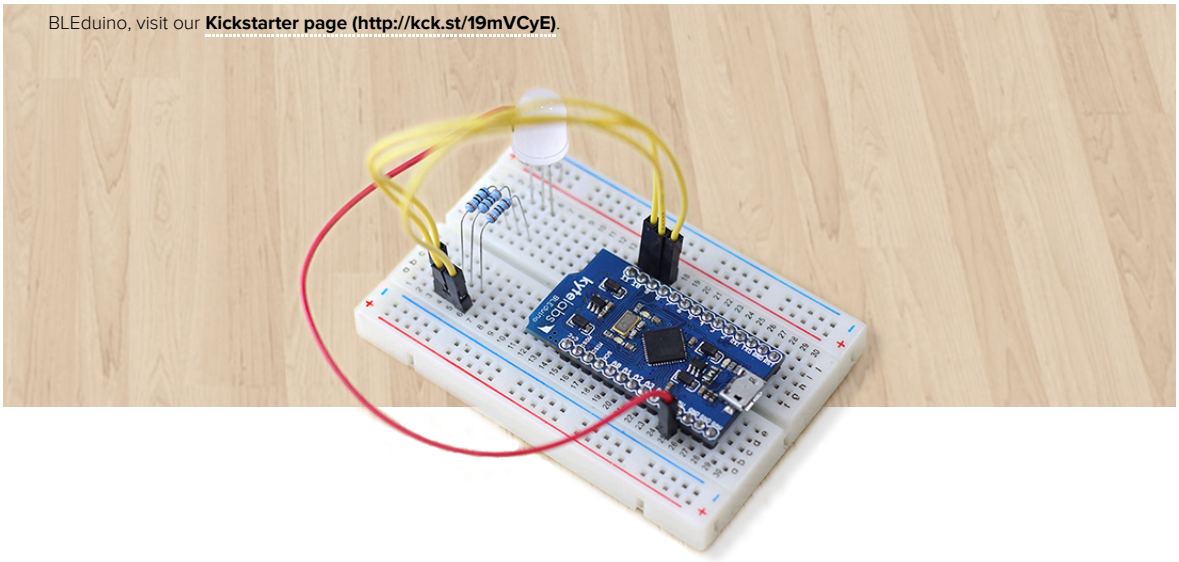
Everything you know and love about Arduino, but with wireless. **Fully compatible** with Arduino shields and designed to work with the Arduino IDE.

Easily control your BLEduino via a simple **mobile application**. No need to be an expert. You can simply use the app or build your own using our libraries.

Effortlessly implement your project. We've **abstracted** all the nasty stuff so there's no rocket science involved. Unless you're building rockets of course!

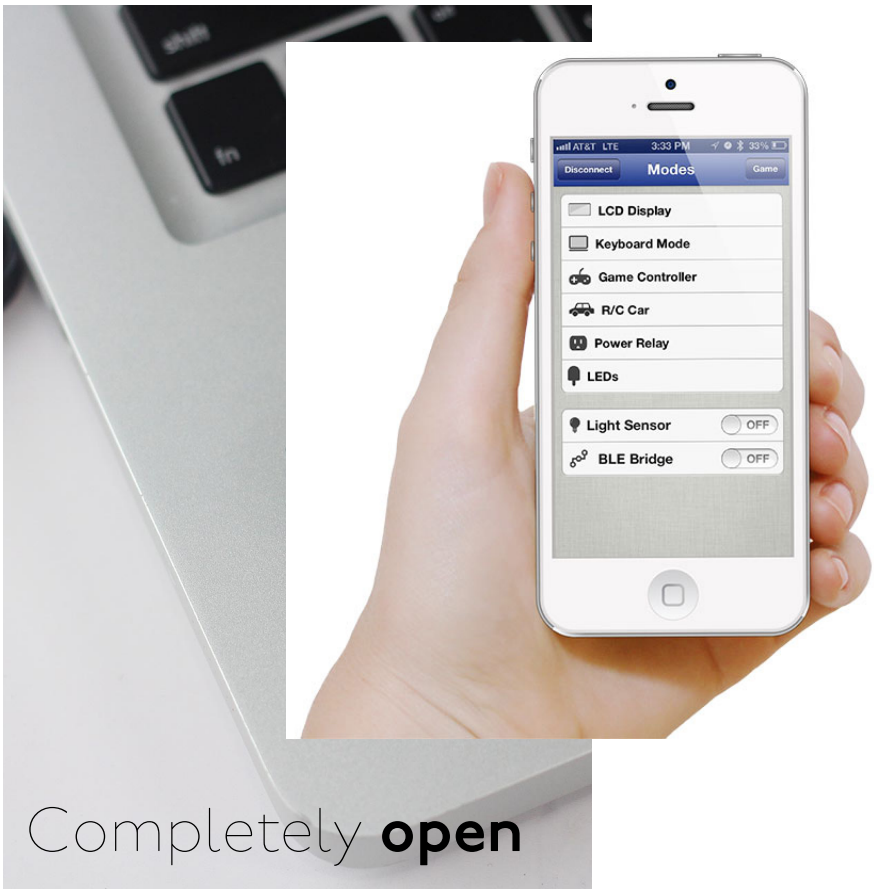
Made for **you**

Versatile and unique, just like you. The BLEduino is breadboard compatible, tiny enough to fit in most enclosures, and **compatible** with standard Arduino **shields** when you combine it with our Shield-Shield accessory. For more details on the Shield-Shield or the



Just **one** app

A single app with multiple applications. Rather than having a ton of examples fractured across different apps, we have all of our examples within one **simple** and elegant app. Each example, or as we call it, module, is fully **expandable** and powered by the BLEduino iOS library. You can build apps based on our modules or scrap the whole thing and just use our BLEduino library.



Completely **open**

Built with the **community** in mind, the BLEduino is as open as it gets.

All of our software, including the iPhone app, will be **free** and open source. We can't wait to see what you build!

Our schematics, board design, bill of materials, and firmware, will **all** be open source. We love open hardware and hope you do too.

The BLEduino is 100% **community funded**. We launched our kickstarter in June and already have 1000+ backers in our community.

Tech **specs**

BLEDUINO

- 21 Total GPIO Pins
- 12 Digital Pins (out of total)
- 9 Analog Pins (out of total)
- 6 PWM Channels (out of total)
- Onboard 5V Regulator
- Onboard 3.3V Regulator
- Serial Communication:
  UART, SPI, I2C
- 40 mA DC Current per I/O Pin
- LEDs for serial communication
- LED for bluetooth connectivity

MICROCONTROLLER

- ATmega32u4 with modified Leonardo bootloader
- 16 MHz Clock Speed
- 32 KB Flash Memory
  4KB used by bootloader
- 2.5 KB SRAM
- 1 KB EPROM
- Built-in HID support
- Simple Keyboard and Mouse emulation

BLUETOOTH MODULE

- Nordic nRF8001
  single-chip Bluetooth
- Range of 100-300 feet

- Range of 100-300 feet
- Dedicated controller for the nRF8001
- Supports custom profiles (not yet supported by the BLEduino)

Make: (http://makezine.com/2013/06/24/bluetooth-the-next-generation/)

Forbes (http://www.forbes.com/sites/giovannirodriguez/2013/06/25/is-the-hardware-rennaisance-come-to-puerto-rico/)

TNW (http://thenextweb.com/la/2013/07/20/why-hackers-and-makers-next-toy-comes-from-puerto-rico/)

solidsmack (http://solidsmack.com/fabrication/bleduino-the-easiest-way-to-control-devices-and-bananas-with-your-phone-and-bluetooth/)

TGDAILY (http://www.tgdaily.com/hardware-features/72256-video-bleduino-is-bluetooth-made-easy)

KICKSTARTER STAFFPICK (http://www.kickstarter.com/discover/categories/technology/recommended)

BLEDUINO

Home (/)
Kickstarter (http://kck.st/19mVCyE)

HELP

Forum (http://forum.bleduino.cc)

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Twitter (http://www.twitter.com/kytelabs)

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