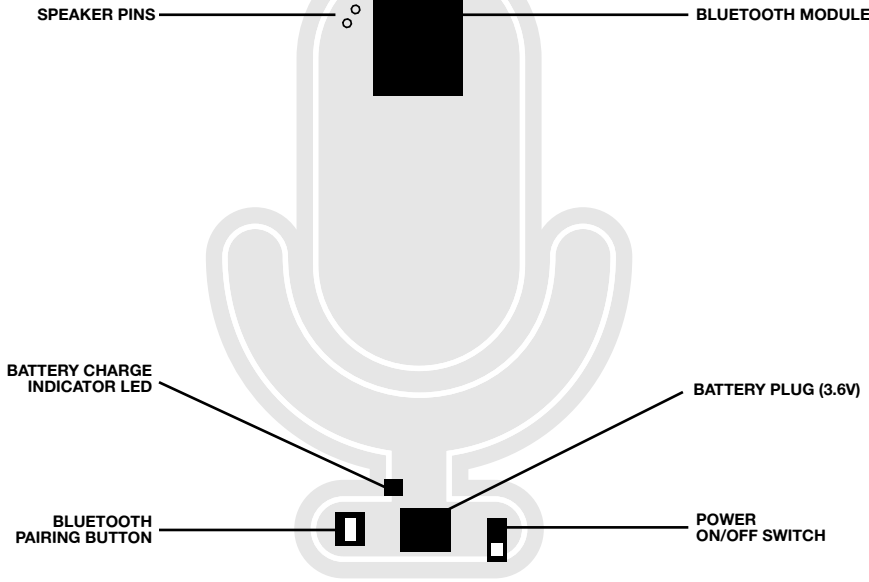
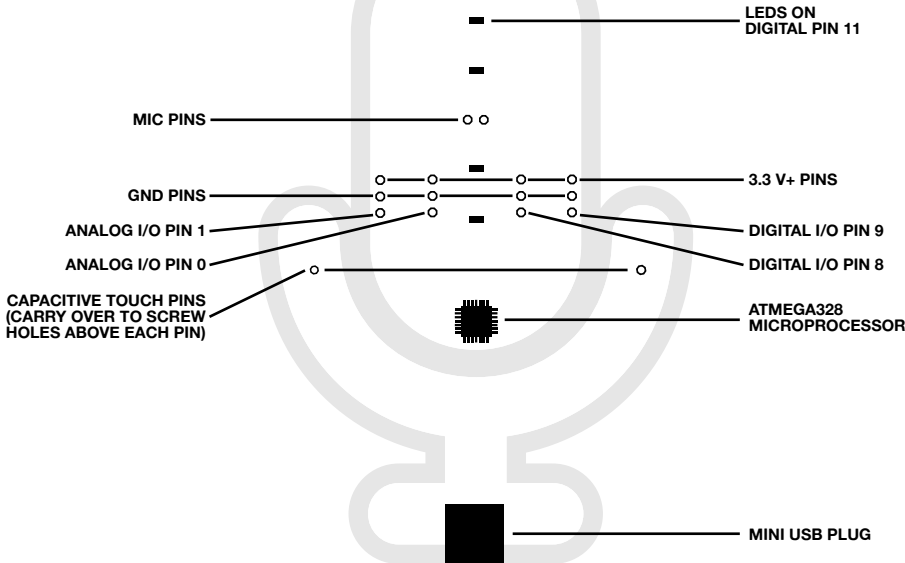
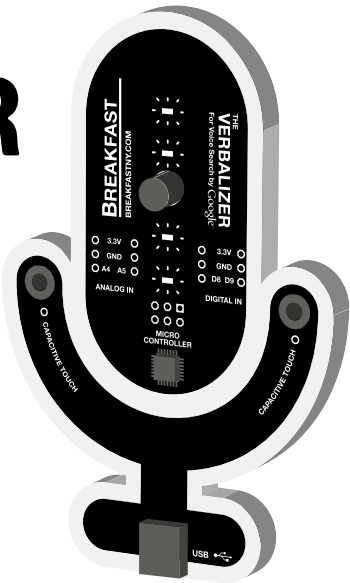


THE VERBALIZER

AN OPEN SOURCE BOARD TO USE WITH
GOOGLE'S VOICE SEARCH FOR DESKTOP

ANOTHER TOY FROM
BREAKFAST



BOARD AND BLUETOOTH SET UP

GET YOUR BOARD PUT TOGETHER FOR COMMUNICATION OVER BLUETOOTH

Solder the microphone onto the front of the board. When placed correctly, it will not cover the mic label.

Solder the speaker onto the back of the board. The speaker will cover over the Bluetooth module.

Plug the battery into the white plug at the bottom of the back of the board. Affix with tape.
*The board will not operate without the battery being plugged in, even if a USB cord is connected.

!!! YOU CAN CHOOSE TO ATTACH A DIFFERENT MIC/SPEAKER/PLUGS/ETC, OR EXTEND THEM VIA WIRES - IT'S ALL UP TO YOU !!!

Switch the board to the **On** position.

To pair the Verbalizer with your computer, first press the button on bottom of the back of the board.

On your Mac, open **System Preferences**.

Choose **Bluetooth** from the **Internet & Wireless** pane.

Click **Add (+)** in the lower-left corner.

Select **The Verbalizer** from the list of devices then click **Continue**.

YOU SHOULD BE CONNECTED!

APP SETUP

AN APPLICATION IS REQUIRED SO THE VERBALIZER CAN TALK TO GOOGLE CHROME

Download and install the Verbalizer app from <http://breakfastny.com/verbalizer>

Launch the Verbalizer App.

Click **Select a Device**. Select the Verbalizer from the list, then click **Connect**. The Verbalizer will beep when connected.

!!! YOU WILL NEED OS X 10.6 TO RUN THE APPLICATION !!!

START VOICE SEARCHING!

ONCE SET UP, YOU'LL BE ABLE TO ACTIVATE VOICE SEARCH USING THE VERBALIZER

Make sure that you have the Google Chrome browser on your machine, and it's set as your default browser.

Touch either of the capacitive touch circles to trigger the Verbalizer. You'll hear a beep, signaling that a browser window is opening.

Upon Voice Search being activated on google.com, you'll then hear another tone signaling to speak your search into the Verbalizer's microphone.

PLAYING WITH THE CODE

THE VERBALIZER IS ARDUINO COMPATIBLE, SO ADD SENSORS, CHANGE CODE, HAVE FUN.

Download the Arduino IDE app from <http://arduino.cc>

In the Verbalizer folder you downloaded in the "App Setup," go to the Arduino/**verbalizer** folder, launch the **verbalizer.pde** sketch in the Arduino App.

In the Arduino app, go to Tools>Board and select **Arduino Pro or Pro Mini (3.3V, 8MHz) w/ ATmega328**.

Beginners should try playing with the variables at the top of the code. Each has a comment explaining what it does. For those who know Arduino, go nuts!

When you're ready to upload to the board, go to **File>Upload to I/O Board**.

PLAYING WITH SOUND

CHANGE THE TONES, OR USE AN MP3 ON YOUR COMPUTER

ADJUST TONES

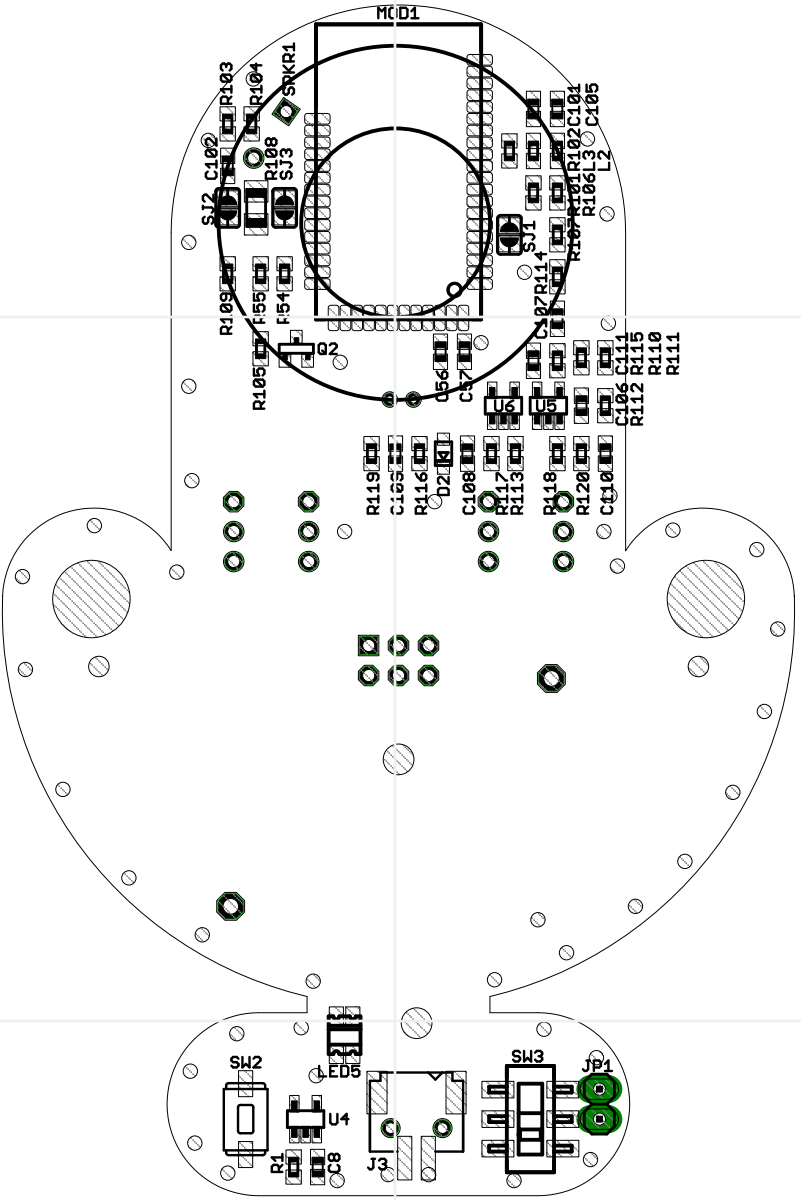
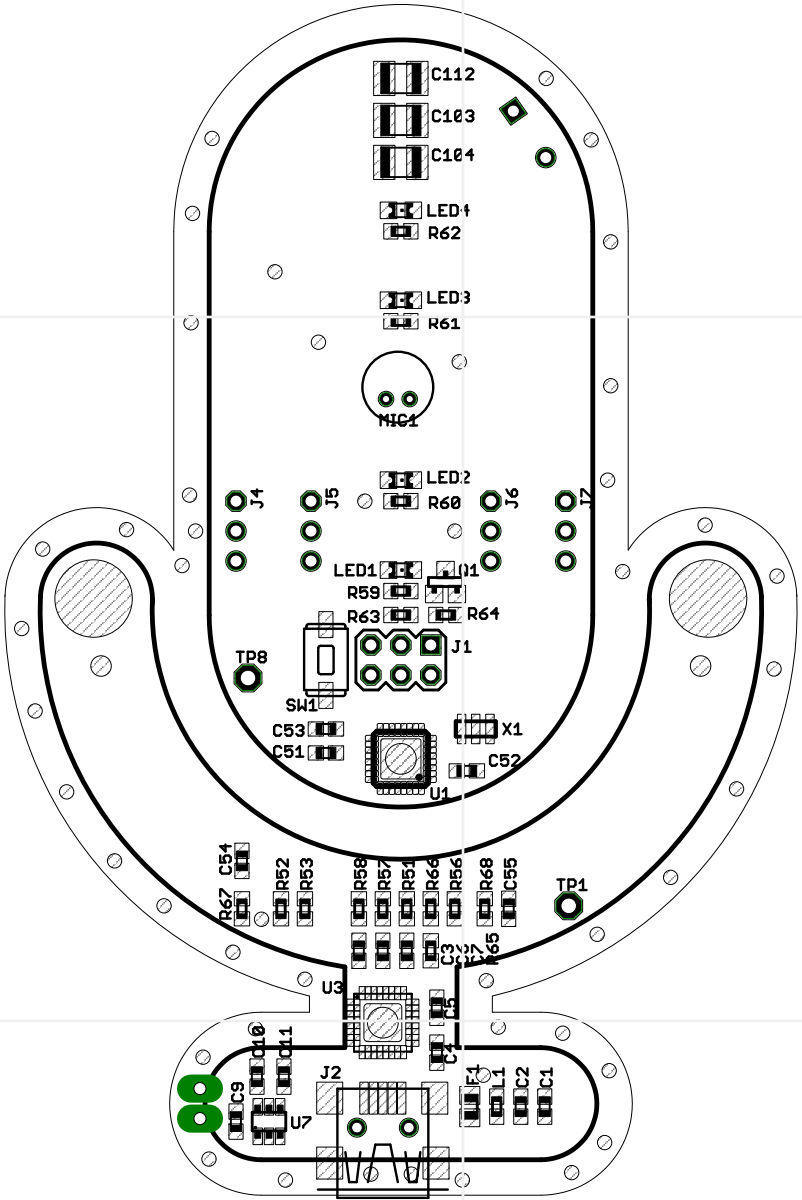
In the **verbalizer.pde** file find the **Sounds and Melodies** section and adjust the arrays with your desired notes and durations.

RIGHT CLICK

Start by right-clicking on the Verbalizer app, then clicking **Show Package Contents**.

MP3

Replace the file **Contents/Resources/speak_now.mp3** with an mp3 of your choice. The shorter the sound, the better.



You can do anything you like with the Verbalizer, provided it isn't illegal and doesn't infringe on the rights of third parties at all, e.g. don't use other people's trademarks, music, brand names, services or products without express permission from them.

The original Verbalizer firmware utilizes microcontroller libraries that were originally released by Arduino under the GPL and LGPL open-source licenses. We encourage you to release any modifications to this code under the same or similar open-source license.

You will continue to own and control your code or IP if you make modifications or changes to the Verbalizer to customize it.

While you can share your changes to the Verbalizer, you cannot imply or hint that your modified device is sponsored by or supported by Google and/or Breakfast without permission from Google and/or Breakfast to do so.