

# An Arduino With Better Speech Recognition Than Siri

[Originalartikel](#)

[Backup](#)

<html> <p>The lowly Arduino, an 8-bit AVR microcontroller with a pitiful amount of RAM, terribly small Flash storage space, and effectively no peripherals to speak of, has better speech recognition capabilities than your Android or iDevice. &#160;Eighty percent accuracy, compared to Siri's sixty.<a href=“<http://www.youtube.com/watch?v=xpJXD2z8eWs>“ target=“\_blank“>Here's the video to prove it</a>.</p> <p>This <a href=“<http://arjo129.github.io/uSpeech/>“ target=“\_blank“>uSpeech library</a> created by [Arjo Chakravarty] uses a <a href=“[http://en.wikipedia.org/wiki/Goertzel\\_algorithm](http://en.wikipedia.org/wiki/Goertzel_algorithm)“ target=“\_blank“>Goertzel algorithm</a>&#160;to turn input from a microphone connected to one of the Arduino's analog pins into phonemes. From there, it's relatively easy to turn these captured phonemes into function calls for lighting a LED, turning a servo, or even replicating the Siri, the modern-day version of the Microsoft paperclip.</p> <p>There is one caveat for the uSpeech library: it will only respond to predefined phrases and not normal speech. Still, that's an extremely impressive accomplishment for a simple microcontroller.</p> <p>This isn't <a href=“<https://hackaday.com/2012/09/22/speech-recognition-on-an-arduino>“>the first time</a> we've seen [Arjo]'s uSpeech library, but it is the first time we've seen it in action. When this was posted months and months ago, [Arjo] was behind the Great Firewall of China and couldn't post a proper demo. Since this the uSpeech library is a spectacular achievement we asked for a few videos showing off a few applications. No one made the effort, so [Arjo] decided to make use of his new VPN and show off his work to the world.</p> <p>Video below.</p> <p><iframe class=“youtube-player“ c2“ type=“text/html“ width=“800“ height=“480“ src=“[https://www.youtube.com/embed/xpJXD2z8eWs?version=3&amp;rel=1&amp;fs=1&amp;autohide=2&amp;showsearch=0&amp;showinfo=1&amp;iv\\_load\\_policy=1&amp;wmode=transparent](https://www.youtube.com/embed/xpJXD2z8eWs?version=3&amp;rel=1&amp;fs=1&amp;autohide=2&amp;showsearch=0&amp;showinfo=1&amp;iv_load_policy=1&amp;wmode=transparent)“ allowfullscreen=“true“>[embedded content]</iframe></p> </html>

From:  
<https://schnipsl.qgelm.de/> - **Qgelm**

Permanent link:  
<https://schnipsl.qgelm.de/doku.php?id=wallabag:an-arduino-with-better-speech-recognition-than-siri>

Last update: **2021/12/06 15:24**

