

An Arduino With Better Speech Recognition Than Siri

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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. Eighty percent accuracy, compared to Siri's sixty. Here's the video to prove it.

This uSpeech library created by [Arjo Chakravarty] uses a Goertzel algorithm 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.

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.

This isn't the first time 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.

Video below.

`<iframe class=„youtube-player c2“ type=„text/html“ width=„800“ height=„480“ src=„https://www.youtube.com/embed/xpJXD2z8eWs?version=3&rel=1&fs=1&autoplay=2&showsearch=0&showinfo=1&iv_load_policy=1&wmode=transparent“ allowfullscreen=„true“>[embedded content]</iframe></p></html>`

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