Voice.setProperties()

Overview

Changes voice properties for Speakeasy.

Added in version 2.0.1

Use Case

Change the settings for how the engine detects speech.

Format

```
var propertyList = {name:value, name2:value2};
Voice.setProperties(propertyList);
```

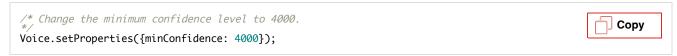| Parameter	Description	Type	Required
propertyList	Object that contains 1 or more property names and values.	Object	Required
name	The name of the property to set.	String	Required
value	The value to assign to the property.	Integer	Required

Voice Properties

Name	Default value	Range	Description
beginEnergy	-2500 (-25 dB)	-5400 to 1800 (-54 dB to 18 dB)	This is the amount of energy that the microphone input data must have before the beginning of speech detection will decide that the user might be talking.
beginSensitivity	50	0 to 100	This setting affects the sensitivity of the beginning of speech detection, if "detectStart" is enabled. The higher this value, the easier beginning-of-speech will be detected.
detectStart	1	0 to 1	If this setting is 1, then the speech-to-text engine will use the beginEnergy value to determine when the user is speaking. If set to 0, then the engine will assume the user is always talking. You should leave this setting enabled unless you have specific issues that can only be solved by disabling it.
eventTimer	1000 (ms)	0 to 60000	A timer event will be generated after the specified amount of input signal is processed.
farMicrophone	0	0 to 1	This should be set to 0 if the user has a headset microphone close to their mouth, and 1 if they are using a microphone that is further away.
fastSpeakerAdaptation	0	0 to 1	Influences how much past information is used to estimate the current speaker and environment settings. 1 means a short history is used. A value of 0 means a long history is used.
maxBestResult	4	1 to 50	Maximum number of hypotheses returned in a result.
maxBestSecondPass	10	1 to 50	Controls the maximum number of hypotheses that will be considered during the second pass of a search algorithm.
micGain	100	0 to 200	Sets software gain by percentage.
minConfidence	5000	1 to 10000	The minimum confidence level that will be accepted for a speech-to-text result. Results with a confidence value less than the threshold value are ignored. If you are having too many of your speech-to-text results discarded, you can lower this value. If you are getting too many incorrect results, you should increase this value.
minSpeech	60 (ms)	0 to 400	The minimal duration, in milliseconds, of the speech before the beginning of speech detection actually detects beginning of speech.

Name	Default value	Range	Description
searchAccuracy	200	0 to 1000	This value affects the trade-off between CPU-load, memory requirements and the obtained accuracy of the search. With a lower value, less CPU-time and memory are needed, but the accuracy also degrades. With a higher value, more CPU-time and memory are needed, but the accuracy increases.
timeoutSpeech	3000	0 to 300000	This is the maximum amount of time, in milliseconds, that the speech-to-text engine will perform speech recognition before it returns an empty result.
trailingSilence	300	0 to 2000	This is the amount of silence, in milliseconds, that the speech-to-text engine expects to hear to know that the user has finished talking. You can make this value shorter when using very short phrases in a grammar, and longer when using long phrases.

Example 1

```
/* Change the minimum confidence level to 4000.
*/
Voice.setProperties({minConfidence: 4000});
```

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