

Integrating Web Speech into your application

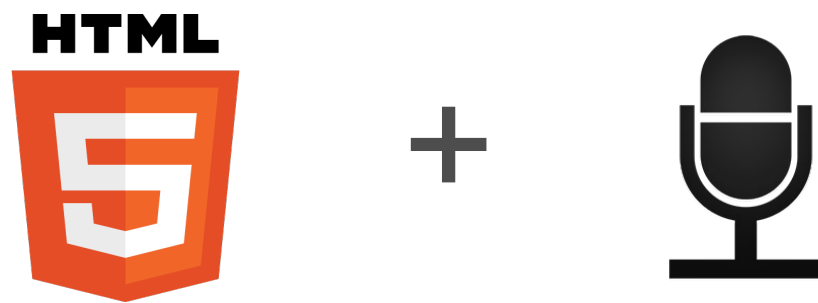
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What is Web Speech ?

HTML5 API that allow user to provide an alternative input method

Speech Recognition : voice-to-text input

Speech Synthesis : text-to-voice as output



Voice Driven Web App: use cases

text dictation

command interface for voice input

voice driven guide

spelling exercise

Web Speech

Javascript API

W3C Specification

Chrome implementation

Used by Google Translate

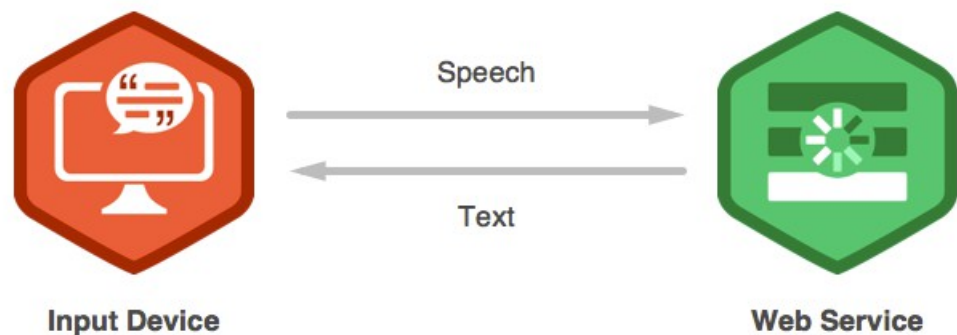
Web Speech Compatibility

IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
		27						
		31						
		33					2.3	
8		34	5.1				4	
9	30	35	6.1				4.1	
10	31	36	7	23	7.1		4.3	
11	32	37	7.1	24	8	7	4.4	37
	33	38	8	25			4.4.3	
	34	39		26				
	35	40						

Web Speech

Web Speech Service

online: web service to compute the voice recognition



use default Google service or use a different one
setup your own text to speech (**tts**) service

Microphone usage

requires user explicit consent: user must allow the browser to use the
microphone

if used on HTTPS the browser asks permission only once

Speech Recognition features

multilingual: use your own language

continuous input: use continuous input for text dictation

intermediate results

alternatives: retrieve more than one result

recognition service: change the default service

Speech Synthesis features

multilingual: use your own language

volume

voice service: change the default service

voice rate: control the voice speed

Speech Recognition controls

start: start text recognition (requires user permission)

stop: terminate text recognition

use tabless panel for standard implementation of web-speech control

Speech Recognition Events

onResult: intermediate results and final result

onStart/onEnd

...

Speech Synthesis

speech, cancel, pause, resume

onSpeech/ onCancel/ onPause/ onResume

...

Servoy Web Speech API

Speech Recognition and Speech Synthesis API integrated into Servoy WC

code completion

statefull

built-in callback mechanism for event handling

compute recognition intermediate results and final result

command interface support: restrict result to listed commands

```
var speech = new scopes.svyWebSpeech.WebSpeech(elements.tabless,  
    {  
        lang: langSpeech,  
        continuous: true,  
        interimResults: true  
    });  
speech.addEventOnResultHandler(onResult);
```

Demo

Web Speech

Servoy Mobile Web Speech API

Servoy has integrated Speech Recognition on Servoy Mobile
same functionalities and same API

supported on Chrome for Android and iOS Safari
not supported on PhoneGap deployment

Warning: Web Speech API usable online only

Now:

Lunch – Pitch: Remote site updater

1.40 pm

Developing Enterprise Apps in the cloud, for the cloud with
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