Internationalizing W3C's Speech Synthesis Markup Language Workshop III

--Raxit Sheth
raxitsheth2000@yahoo.co.in
Important…!!!

• Don’t worry if you are not familiar with some languages/script,
  »Except English

If you think your neighbour is not understanding. Stop me…!!!
<speak version="1.0" xml:lang="en-US">
<p> This is in English. </p>
<p xml:lang="hi-IN">
भारत में इंटरनेशनल इंस्टीट्यूट ऑफ
इन्फॉर्मेशन टेक्नोलॉजी (आई.आई.आई.टी)
और भरीगस सॉफ्टवेयर द्वारा संयुक्त रूप
से आयोजित की जाएगी।
</p>
<p> This is in English End…. </p>
</speak>
Don’t you think I should provide content in alternate lang. also???
Demo…!!!

- What should be the Behavior of SSML Engine when Encounters non-supported language or language content ?
Behaviour of SSML Engine for Non-Supported Languages.

- Stop the document/tag processing
- Skip the Content in Non-Supported Languages
- **Forcefully Render -- Junk Contain.**
- Take intelligent decision and ignore xml:lang in case of mismatch.
- ???
SSML 1.1

• SSML engine must document the expected Behavior. (for lang)
• Some more constraint selection Algo. (voice)
• Some may want constraint, some may not.
SSML Application Developer is not in Control, But the platform is
Nice to have error reporting/handling mechanism in SSML

Not only for mixed lang
Possibilities for following

- `<alt>` -- one of W3C’s Accessibility Guideline
- `<log>`...
- `<skipTag>` `<skipContent>`
- `<stopOn*Error>` --
  ReportError—Someone can Handle by language Translation/other means
- `<tryBestOn*Error>`
- `???

W3C's SSML-3 Workshop
raxitsheth2000@yahoo.co.in
• `<error="source.HI.language.NotSupported"
  action="skipTag"/>

• `<error="*.NotSupported"
  action="skipContent"/>

These are Not complete Syntax
Is it like Tag Bloat…???
Focus on Idea, Tag
and other syntax we can work on if
everyone agrees.
Some More Rules…

• These are inherited down to the document hierarchy, (except <alt>, <log>)
• inner attributes override outer attributes
One more…!!!

error and <catch>

• Add a <catch> tag to SSML. - Define a family of events that go from less specific to more specific.
• Like: error.*
• error.unsupported.*
• error.unsupported.language.*
• error.unsupported.language.hi-IN
• error.badfetch.http.*
• error.badfetch.http.404
• If an event is thrown and catch is not present, define what the default behaviour of the SSML engine will be.

• - If an event is caught, one or more <action>'s can be taken within the <catch>
  • o <action> <exit namelist="_event _message"/> </action>: Abort the rest of the synthesis.
  • o <action><abort scope="..."> </action>: Aborts playback with a scope.

• This could be document, paragraph sentence, word, implicit paragraph (where the engine determines paragraph boundary, rather than an explicit boundary through markup), implicit sentence (similar to implicit paragraph).
  - Once <catch> finishes executing, processing resumes.
Points to Consider…

1.3 Document Generation, Applications and Contexts (ssml 1.1)

Reuse/Easy to use & Understand. Ssml dev

- Compatible with ssml 1.0
- Vendors : implement able.
- Fit for Next Voice/Multimodal platform
• Error handling for Language support is just an example, Same concepts can be applied to <voice> and Other features,

• <error="female.voice.NotSupported" action="tryBest" />
A application Developer knows more about features/functionalities of SSML processor and can Provide “Better User Experience”

Optimize the use of resource, by better interaction

Without more Vendor Lock-in
Questions...
Copyright

• Some contents are from www.w3.org/ and www.w3cindia.in

• Copyright © 2007 W3C® (MIT, ERCIM, Keio), All Rights Reserved. W3C liability, trademark and document use rules apply.
Thank You…