Demonstration

```
1 <lecture>
        <info
                 title="An introduction to LSML"
                 description="This is a short introduction to the markup language LSML."
        <settings
                 voice="amazon-en-gb-amy"
                 resolution="1920x1080"
10
                 fps="30"
                 breakAfterSlide="1300"
                 breakAfterParagraph="550"
        <deck id="slides" src="slides-en.pdf" active="true" />
        Welcome to a demonstration of the functions of the markup language <say-as interpret-as="characters">LSML</say-as>.
        <slide page="2" />
20
        Here you can see the program code that is currently being read out. But before we get into code, let's get to the basics first.
```

Lecture Synthesis Markup Language

LSML is a language to define lectures visually and audibly, as well as human and machine-readable, in text form.

Lecture Synthesis Markup Language

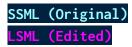
LSML is a language to define lectures visually and audibly, as well as human and machine-readable, in text form.

- Based on the hierarchically structured markup language XML
- SSML (Speech Synthesis Markup Language) is a markup language for speech synthesis
- SSML is used by many text-to-speech services, including Amazon Polly and Google Cloud
 Text-to-Speech, which are integrated into Lecture.js

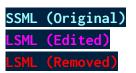


SSML

External Document Text Languages Pronunciation Manipulation Structure Structure and Voices Resources <s> <voice> <lexicon> <audio> <speak> <lang> <desc> <meta /> <lookup> <token> <metadata> <say-as> <w> <mark> <sub> <phoneme> <emphasis> <break /> <prosody>

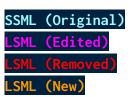


Document	Text	Languages and Voices	Pronunciation	External
Structure	Structure		Manipulation	Resources
<pre><speak> <meta/> <metadata> <mark> </mark></metadata></speak></pre>	<s></s>	<voice></voice>	<lexicon> <lookup> <say-as> _{<phoneme> <emphasis> <break></break> <prosody></prosody></emphasis></phoneme>}</say-as></lookup></lexicon>	<audio><audio></audio></audio>



Document	Text	Languages	Pronunciation	External
Structure	Structure	and Voices	Manipulation	Resources
<pre><speak> <meta/> <metadata> <mark></mark></metadata></speak></pre>	<s></s>	<voice></voice>	<lexicon> <lookup> <say-as> _{<phoneme> <emphasis> <break></break> <prosody></prosody></emphasis></phoneme>}</say-as></lookup></lexicon>	<audio></audio>





Document Structure	Text Structure	Languages and Voices	Pronunciation Manipulation	External Resources
<speak></speak> <meta/> <metadata></metadata>	<s> <token></token></s>	<voice><lang></lang></voice>	<lexicon> <lookup> <say-as></say-as></lookup></lexicon>	<audio> <desc></desc></audio>
<mark></mark>	<w></w>	<de> <de-de></de-de></de>	_{<phoneme></phoneme>}	<video></video> <image/>
<lecture> <info></info> <settings></settings></lecture>		<en> <en-au> <en-gb></en-gb></en-au></en>	<pre><emphasis> <break></break> <pre><pre>osody></pre></pre></emphasis></pre>	
<deck></deck> <slide></slide>		<en-gb-wls></en-gb-wls>		

1 <lecture> 2 </lecture>

```
1 <lecture>
2 <deck id="slides1" src="slides1.pdf" active="true" />
3 </lecture>
```

```
1 <lecture>
2 <deck id="slides1" src="slides1.pdf" active="true" />
  This is spoken.
4 </lecture>
```

```
1 <lecture>
2 <deck id="slides1" src="slides1.pdf" active="true" />
  This is spoken.
4 </lecture>
```

```
1 <lecture>
2 <deck id="slides1" src="slides1.pdf" active="true" />
  This is spoken.
4 </lecture>
```

```
1 <lecture>
  <deck id="slides1" src="slides1.pdf" active="true" />
   <deck id="slides2" src="slides2.pdf" />
4
    This is spoken.
5
   <slide page="2" />
6
    This is spoken on page 2.
   <slide deck="slides2" page="1" />
   This is spoken on page 1 of the second slide deck.
10 </lecture>
```

Deck 2 Page 1

```
1 <lecture>
  <deck id="slides1" src="slides1.pdf" active="true" />
3
   <mark name="intro" chapter="Introduction" />
4
   This is the introduction.
6
   <mark name="chapter-2" chapter="Chapter 2: The Beginning" />
8
   This is chapter 2.
9 </lecture>
```

```
1 <lecture>
  <deck id="slides1" src="slides1.pdf" active="true" />
3
    <voice name="google-es-es-wavenet-b">
4
5
        Hola como estas?
    </voice>
6
8
    <voice name="amazon-de-de-vicki">
        Mir geht es gut! Danke für die Nachfrage!
9
    </voice>
10
11 </lecture>
```

```
1 <lecture>
2 <deck id="slides1" src="slides1.pdf" active="true" />
3
  <sub alias="Alpha Beta">AB</sub>
5 </lecture>
```

```
1 <lecture>
2 <deck id="slides1" src="slides1.pdf" active="true" />
3
  <video src="video.mp4" clipEnd="3s" />
5 </lecture>
```

```
1 <lecture>
2 <deck id="slides1" src="slides1.pdf" active="true" />
3
  <audio src="melody.m4a" />
5 </lecture>
```