

SMIL 2.0 and the AMBULANT SMIL Player

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Goals & Overview

Provide Overview of SMIL 2.0

- Motivation
- Understand the XML Structure of SMIL
- Implications for Current and Future Web Content

Introduce the **AMBULANT** SMIL player

- SMIL Support
- Implementation Platforms
- Current and Future Directions



Part I

What is SMIL and Why Should You Care?



SMIL 2.0 Overview

What it is:

- An open, XML language for describing how media objects can be scheduled and rendered relative to each other

What it is not:

- SMIL does NOT describe or define media objects; it defines how media objects interact

Overview of Implementations

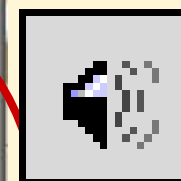
- Desktop Computers
- PDA's
- Mobile Telephones
- Special Purpose Devices



SMIL From the User's Viewpoint

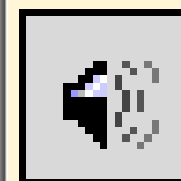
video object

caption



audio

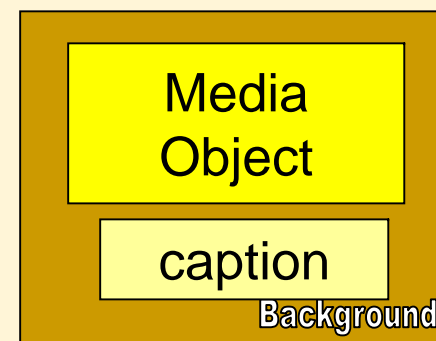
...



audio

SMIL in a Nutshell

```
<smil xmlns="http://www.w3.org/2001/SMIL20/Language" >
  <head>
    <layout>
      </layout>
    </head>
    <body >
      <par>
        
        <video region="Image" src="Video.mpg"/>
        <switch>
          <audio region="Audio" src="Audio-English.mp3" systemLanguage="en"/>
          <audio region="Audio" src="Audio-Japanese.mp3" systemLanguage="jp"/>
        </switch>
        
      </par>
    </body>
  </smil>
```



Advantages of SMIL for Daisy

Non-Proprietary Format

- Defined by W3C
- Royalty free
- Open standardization process

Multiple Types of Captions

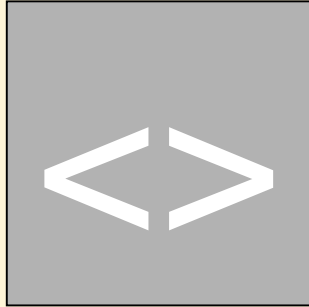
- Text
- Audio
- Graphic

Different Sets of Content Can Be Mixed

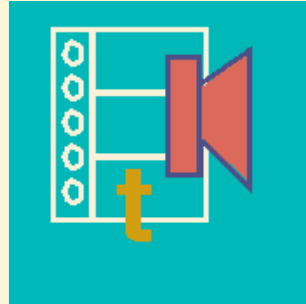
- Captions are not 'baked in'



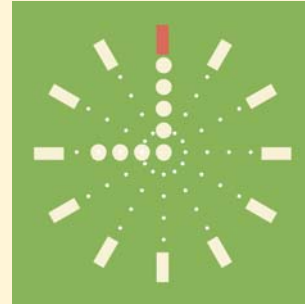
SMIL: Bird's Eye View



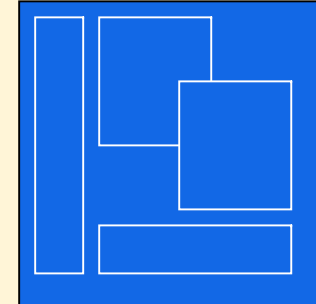
Structure



Media
Objects



Timing



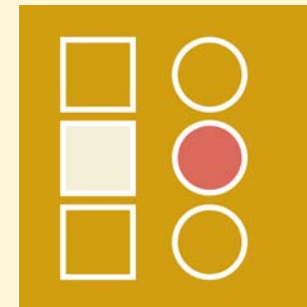
Layout



Transitions

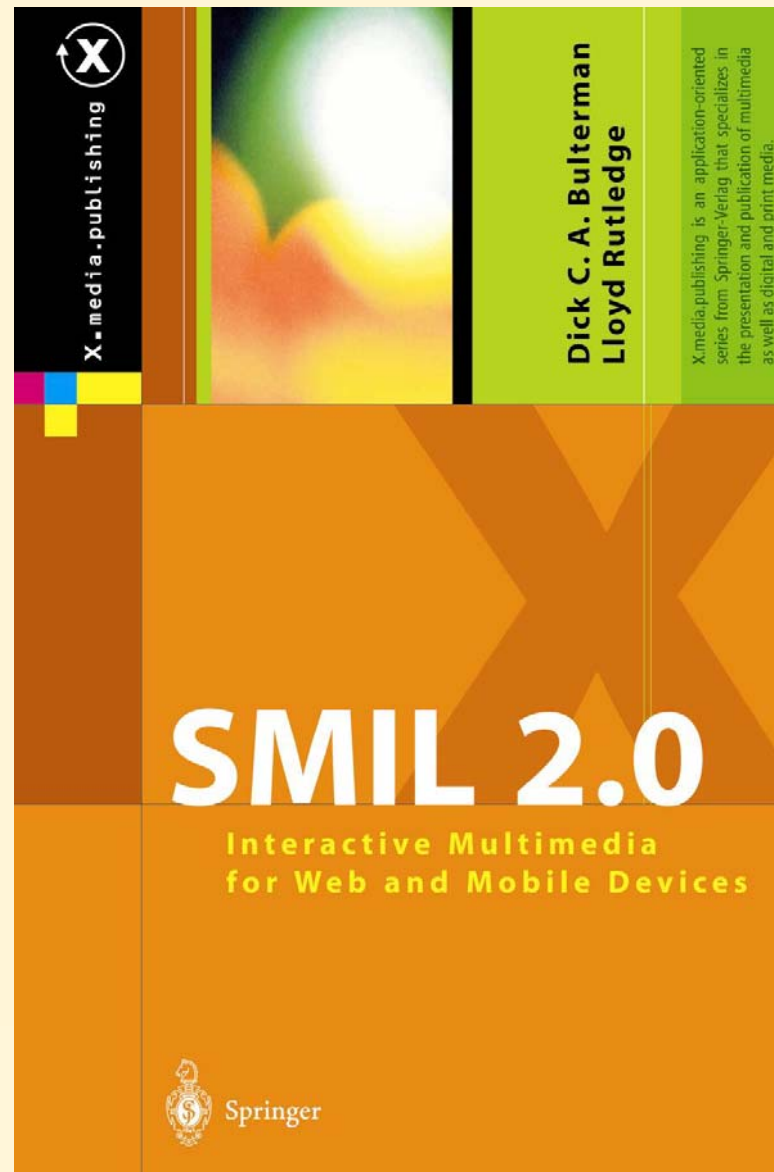


Interaction



Adaptivity

More Information on SMIL



Part II

The **AMBULANT** SMIL Player



Overview of the AMBULANT Player

What it is:

- An open-source SMIL 2.0 player
- Provides full support for SMIL
- Provides a flexible player architecture

Overview of Implementations

- Windows Desktop
- Windows CE
- Linux (+PDA)
- Macintosh



Examples Using the AMBULANT Player

Text Captions

- Conditional captions timed with media

Video Captions

- Extra content to describe visual data



Contact Information

Ambulant SMIL Player and Editor

- www.ambulantPlayer.org

Direct Contact Info

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