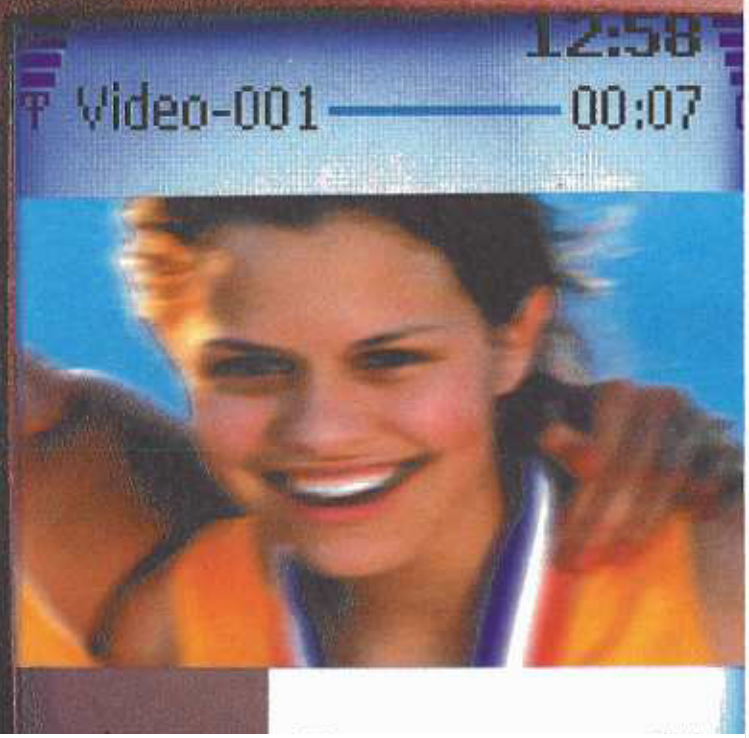
Companion Website

Gwenaël Le Bodic

multimedia messaging service

an engineering approach to MMS



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An Engineering Approach to MMS

Gwenaël Le Bodic

Alcatel, France

John Wiley & Sons Ltd, The Atrium, Southern Gate, Chichester,
West Sussex PO19 8SQ, England

Telephone (+44) 1243 779777

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In addition, a text foreground colour may be specified for each slide text object. This is performed by assigning a colour attribute when linking the text object with the text region as shown below:

```
<text src = "Text1.txt" region = "Text">
      <param name = "foreground-color" value = "blue"/>
</text>
```

It is common to use the following 16 colour keywords defined in [W3C-HTML4]: `aqua`, `black`, `blue`, `fuchsia`, `gray`, `green`, `lime`, `maroon`, `navy`, `olive`, `purple`, `red`, `silver`, `teal`, `white` and `yellow`. In addition, RGB hexadecimal colour codes [W3C-sRGB] may also be used (values are prefixed with the hash mark '#') as shown below:

```
black =    "#000000"        green =   "#008000"
silver =   "#C0C0C0"        lime =    "#00FF00"
gray =     "#808080"        olive =   "#808000"
white =    "#FFFFFF"        yellow =  "#FFFF00"
maroon =   "#800000"        navy =    "#000080"
red =      "#FF0000"        blue =    "#0000FF"
purple =   "#800080"        teal =    "#008080"
fuchsia =  "#FF00FF"        aqua =    "#00FFFF"
```

The support of colour is not specified in the MMS conformance document. Consequently, the support of text colours is not widely supported by MMS clients.

5.4.11 XHTML as an Alternative to SMIL

As an alternative to SMIL, eXtensible HTML (XHTML) is a language that can also be used for representing message scene descriptions. In particular, XHTML Mobile Profile (XHTML MP) [WAP-277] extends HTML Basic Profile published by W3C [W3C-XHTML-Basic]. HTML MP is a subset of HTML 1.1 but a superset of HTML Basic Profile. XHTML MP has been specifically tailored for resource constrained devices. However, HTML MP remains a suitable language for the definition of rich MMS scene descriptions.

The OMA conformance document [OMA-MMS-Conf] (version 1.2) does not identify XHTML as an alternative to SMIL for MMS clients. Consequently, existing MMS devices seldom provide support for XHTML as a scene description language for MMS.

5.5 Example of a Multimedia Message

As shown previously, the multipart structure of a multimedia message is represented in a binary form in order to be efficiently transported between the MMS client and the MMSC. This binary representation is directly derived from the MIME concepts introduced in Section 5.1.1. Figure 5.11 shows the textual representation of a multimedia