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Appendix C

XML documents

C.1 A schema document

```
<?xml version="1.0"?>
<fg:grammar
   xmlns:fg="http://www.cwi.nl/~acoi/fg/schema"
   xmlns:WWW="http://www.cwi.nl/~acoi/WWW"
   xmlns:Image="http://www.cwi.nl/~acoi/WWW"
>
  <WWW:WebObject type=".non-terminal.start.">
    <WWW:Location type=".non-terminal."/>
    <WWW:WebHeader type=".non-terminal.detector.blackbox."/>
    <WWW:WebBody type=".non-terminal."/>
  </WWW:WebObject>
  <WWW:WebHeader type=".non-terminal.detector.blackbox.">
    <WWW:Modification type=".non-terminal."/>
    <WWW:Length type=".non-terminal."/>
  </WWW:WebHeader>
  <WWW:Location type=".non-terminal.">
    <WWW:url type=".terminal.atom." module="www"/>
  </WWW:Location>
  <WWW:Modification type=".non-terminal.">
    <WWW:date type=".terminal.atom." module="temporal"/>
  </WWW:Modification>
  <WWW:Length type=".non-terminal.">
    <fg:lng type=".terminal.atom."/>
  </WWW:Length>
  <WWW:WebBody type=".non-terminal.">
    <Image:Image type=".non-terminal."/>
  </WWW:WebBody>
  <Image:Skin type=".non-terminal.detector.blackbox.">
```

```
29      <Image:bitmap type=".terminal.atom." module="image"/>
30    </Image:Skin>
31    <Image:Color type=".non-terminal.detector.blackbox.">
32      <Image:RGB type=".non-terminal."
33        coll="list" lbnd="0" hbnd="infinit"/>
34      <Image:Number type=".non-terminal."/>
35      <Image:Prevalent type=".non-terminal."/>
36      <Image:Saturation type=".non-terminal."/>
37    </Image:Color>
38    <Image:Faces type=".non-terminal.detector.blackbox.">
39      <fg:int type=".terminal.atom."/>
40    </Image:Faces>
41    <Image:Red type=".non-terminal.">
42      <fg:int type=".terminal.atom."/>
43    </Image:Red>
44    <Image:Green type=".non-terminal.">
45      <fg:int type=".terminal.atom."/>
46    </Image:Green>
47    <Image:Blue type=".non-terminal.">
48      <fg:int type=".terminal.atom."/>
49    </Image:Blue>
50    <Image:Number type=".non-terminal.">
51      <fg:int type=".terminal.atom."/>
52    </Image:Number>
53    <Image:Prevalent type=".non-terminal.">
54      <fg:flt type=".terminal.atom."/>
55    </Image:Prevalent>
56    <Image:Saturation type=".non-terminal.">
57      <fg:flt type=".terminal.atom."/>
58    </Image:Saturation>
59    <Image:Image type=".non-terminal.">
60      <Image:Color type=".non-terminal.detector.blackbox."/>
61      <Image:Class type=".non-terminal."/>
62    </Image:Image>
63    <Image:Class type=".non-terminal.">
64      <Image:Graphic type=".non-terminal.detector.blackbox."/>
65      <Image:Photo type=".non-terminal.detector.whitebox."/>
66      <Image:Skin type=".non-terminal.detector.blackbox."/>
67      <Image:Faces type=".non-terminal.detector.blackbox."/>
68    </Image:Class>
69    <Image:RGB type=".non-terminal.">
70      <Image:Red type=".non-terminal."/>
71      <Image:Green type=".non-terminal."/>
72      <Image:Blue type=".non-terminal."/>
73    </Image:RGB>
74  </fg:grammar>
```

C.2 A parse forest document

```
<?xml version="1.0"?>
<fg:forest
   xmlns:fg="http://www.cwi.nl/~acoi/fg/forest"
   xmlns:WWW="http://www.cwi.nl/~acoi/WWW"
   xmlns:Image="http://www.cwi.nl/~acoi/Image"
>
   <fg:elementary context="1:1" confidence="1.00" idrefs="2"
      start="WWW:WebObject" date="20030625"
   >
      <WWW:WebObject id="5478@0" context="1:1">
         <WWW:Location id="1" context="1:1">
            <WWW:url id="2" context="1:1">
               <![CDATA[http://...]]>
            </WWW:url>
         </WWW:Location>
         <WWW:WebHeader idrefs="5479@0" context="1:1"/>
         <WWW:WebBody id="7" context="1:1">
            <Image:Image id="8" context="1:1">
               <Image:Color idrefs="5480@0" context="1:1"/>
               <Image:Class id="15" context="1:1">
                  <Image:Photo idrefs="5486@0" context="1:1"/>
                  <Image:Skin idrefs="5487@0" context="1:1"/>
                  <Image:Faces idrefs="5488@0" context="1:1"/>
               </Image:Class>
            </Image:Image>
         </WWW:WebBody>
      </WWW:WebObject>
   </fg:elementary>
   <fg:auxiliary date="20030625">
      <WWW:WebHeader id="5479@0" idrefs="2" context="1:1"
         confidence="1.00" version="1.0.0"
      >
         <WWW:Modification id="3" context="1:1">
            <WWW:date id="4" context="1:1">
               <![CDATA[Jul 23 2001]]>
            </WWW:date>
         </WWW:Modification>
         <WWW:Length id="5" context="1:1">
            <fg:lng id="6" context="1:1">
               <![CDATA[14197]]>
            </fg:lng>
         </WWW:Length>
      </WWW:WebHeader>
   </fg:auxiliary>
```

```
45      <fg:auxiliary date="20030625">
46         <Image:Color id="5480@0" idrefs="2" context="1:1"
47            confidence="1.00" version="1.0.0"
48         >
49            <Image:Number id="9" context="1:1">
50               <fg:int id="10" context="1:1">
51                  <![CDATA[29053]]>
52               </fg:int>
53            </Image:Number>
54            <Image:Prevalent id="11" context="1:1">
55               <fg:flt id="12" context="1:1">
56                  <![CDATA[0.03]]>
57               </fg:flt>
58            </Image:Prevalent>
59            <Image:Saturation id="13" context="1:1">
60               <fg:flt id="14" context="1:1">
61                  <![CDATA[0.19]]>
62               </fg:flt>
63            </Image:Saturation>
64         </Image:Color>
65      </fg:auxiliary>
66      <fg:auxiliary date="20030625">
67         <Image:Photo id="5486@0" idrefs="10 12 14"
68            context="1:1" confidence="0.85" version="1.0.0"
69         />
70      </fg:auxiliary>
71      <fg:auxiliary date="20030625">
72         <Image:Skin id="5487@0" idrefs="2" context="1:1"
73            confidence="0.95" version="1.0.0"
74         >
75            <Image:bitmap id="16" context="1:1">
76               <![CDATA[00...]]>
77            </Image:bitmap>
78         </Image:Skin>
79      </fg:auxiliary>
80      <fg:auxiliary date="20030625">
81         <Image:Faces id="5488@0" idrefs="16" context="1:1"
82            confidence="0.77" version="1.0.0"
83         >
84            <fg:int id="17" context="1:1">
85               <![CDATA[1]]>
86            </fg:int>
87         </Image:Faces>
88      </fg:auxiliary>
89   </fg:forest>
```