

MPEG-7 Java Binding – README

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1. How it was done

- Source: Final version of complete MPEG-7 Schema definition (including MDS, DDL, Visual and Audio)
- Build environment: JVM 1.4.2_06, JWSDP 1.5 (JAXB 1.0), WindowsXP, Schemas in "c:\temp\mds3"
- Destination: package `org.vizir.mpeg7`

2. What to observe

- The base element `Mpeg7` had to be renamed to `MP7`, since JAXB creates a `xxxType` class for every element/complexType `xxx`. Unfortunately, the MPEG-7 Schema already has a `Mpeg7Type` class. Renaming to `MP7` solved the problem.
- JAXB collapses badly if a schema contains an element/complexType with a `maxOccurs`-attribute greater than approximately 256. Hence, all such attributes (usually, `maxOccurs=65535`; 61 in total) were changed to `maxOccurs=unbounded`.
- In type `EditedVideoEditingTemporalDecompositionType` the attributes `Shot`, `ShotRef`, `GlobalTransition` and `GlobalTransitionRef` had to be numbered from one to four in order to make them unique. Equally, in `ShotEditingTemporalDecompositionType` the attributes `CompositionShot`, `CompositionShotRef`, `InternalTransition`, `InternalTransitionRef`, `IntraCompositionShot`, `IntraCompositionShotRef`, `CompositionTransition` and `CompositionTransitionRef` were numbered.

3. What else?

- The generated java classes are free under GNU GPL
- Due to copyright reasons we are not allowed to provide the MPEG-7 schemas from our website
- The content-based descriptors do not contain extraction algorithms (see CVS) – just the normative elements!