

T-111.2350 Multimedia Technology

Exam 7.3.2007.

Write the course name, date, your name, and your student number on each answer paper.

1. XML

Describe briefly (2-3 lines per language) what are the following eXtensible Markup Language (XML) languages are what they are typically used for?

- XSL-T
- XPath
- XHTML
- SMIL
- SVG
- XForms

2. Sound Coding

Describe how sound coding is implemented in the following use cases:

- CD disc
- MP3
- 3rd generation mobile phone voice codec

In each case, tell on which principle the sound coding is based on and how it can be implemented in practice. Which are the advantages and disadvantages of each alternative?

3. Content Production

In the lecture slides, seven typical phases of content production are discussed. Which are these seven phases and what happens in each stage?

4. Interchange Formats

Compare object and track based interchange formats. What are the main differences between their data structures? How is interaction typically implemented in both models? How is media content played in both models?

5. Real-Time Transfer Protocols

Which are the three most important real-time transfer protocols? Tell the purpose of each transfer protocol and its main tasks.

