

Video TOC 생성

- MPEG4 스키마에 따르는 문서(CNN_070200.xml)를 이용하여, 다음 기능을 갖는 Video TOC (Table of Content)를 html 문서로 출력하는 XSLT 프로그램을 작성하시오.
- 최상위(level="0")의 SummarySegmentGroup 엘리먼트를 루트로 하고, 각각의 SummarySegmentGroup은 자식 엘리먼트인 Name과 SummarySegmentGroup 엘리먼트를 이용하여 아래 기능을 포함하는 result tree (html 문서)를 구성.
 - Name이 없는 SummarySegmentGroup 엘리먼트는 무시함.
- 각각의 꼭지에 대한 타이틀 앞에 (챕터/섹션) 넘버링 처리
 - 루트 (level="0") 에 대해서는 넘버링 하지 않음.
 - 그외의 레벨에서는 1.2.3과 같이 챕터/섹션/서브섹션 등의 넘버를 붙일 것
- 타이틀 뒤에는 해당 꼭지의 duration을 출력
 - “(xx분xx초)”, 초 이하는 버림
- indentation 처리
- XSLT 프로그램은 리커시브하게 수행되도록 작성.
- 맨 마지막에 SummarySegmentGroup 엘리먼트의 개수를 출력

CNN Headline News, Sunday(27M36S985)

1. Title of Headline News(08S541)
2. Top Stories(07M40S961)
 1. Washing Monument Attacks(02M44S865)
 2. Mexican Election(01M39S533)
 3. Deaths in Denmark Rock Festival(26S427)
 4. Structural Failures in Ohio(31S364)
 5. New Approach to Heart Transplant(28S696)
 6. Controversy in Northern Island(28S261)
 7. Libertarian Party(32S232)
 8. Cuba is looking for free immigration to US(28S462)
 9. Dalai Lama in Washington(21S121)
3. Weather Forecast(01M11S038)
4. Miscellaneous(52S853)
 1. Rescue Penguins from Oil-fense in South Africa(25S626)
 2. World Guy Parade in Rome(27S227)
5. Week at a Glance(01M56S483)
6. Coming Up(25S626)
7. 2 Minute Report(02M29S783)
 1. Title of 2 Minute Report(05S872)
 2. Senior Enlisted Forum(01M49S543)
 3. Title of 2 Minute Report(03S503)
 4. 2 Minute Plus(30S865)
8. Summary of Top Stories(45S812)
 1. Title of Top Stories(04S671)
 2. Mexican Election(17S284)
 3. Washing Monument Attacks(12S179)
 4. Deaths in Denmark Rock Festival(07S007)
 5. Title of Top Stories(04S671)
9. Dollars and Sense(02M14S702)
 1. Title of Dollars and Sense(05S739)
 2. Interest Rates(01M40S668)
 3. Ad for Next Stories(13S413)
 4. Factoid(09S176)
 5. Title of Headline News(05S706)
10. AFN Specials(02M10S363)
 1. AFN Extended Forecast(01M15S342)
 2. AFN ad: Landing Craft Air Cushion(45S478)
 3. Sports Trivia(09S543)
11. Sports(02M48S869)
 1. Title of Sports(05S039)
 2. Major League Baseball(01M34S860)
 3. Golf: US Senior Open(17S384)
 4. Soccer: European Championship(13S747)
 5. Title of Sports(05S139)
 6. Sports Trivia(27S761)
 7. Title of Headline News(04S938)
12. AFN Specials(01M01S695)
 1. AFN Space-A Forecast(57S091)
 2. Logo of Air Mobility Command(04S604)
13. Life Styles(03M12S493)
 1. Title of life Styles(04S838)
 2. Celebrate Armstrong in New York(31S565)
 3. Sinatra Crooners(02M36S090)
14. Closing Comments(29S896)
 1. Comments(11S178)
 2. Scene of News Room(15S649)
 3. Title of Headline News(03S069)

2.1

XSLT 프로그램

- `<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:mpeg7="urn:mpeg7:schema:2004">`
`<xsl:output method="html" encoding="UTF-16" indent="yes"/>`
`<xsl:template match="/">`
 `<html>`
 `<head>`
 `<title>CNN NEWS</title>`
 `</head>`
 `<body>`
 `<h1>CNN NEWS</h1>`
 `
`
 `<xsl:apply-templates`
 `select="mpeg7:Mpeg7/mpeg7:Description/mpeg7:Summarization/mpeg7:Summary/mpeg7:SummarySegmentGroup"/>`
 `</body>`
 `</html>`
 `</xsl:template>`

 `<xsl:template match="mpeg7:SummarySegmentGroup">`
 `...`
 `</xsl:template>`
`</xsl:stylesheet>`

제출물

- 1. 생성된 html 문서의 화면 캡취
- 2. 생성된 html 문서 출력
- 3. 작성한 xslt 프로그램 출력