

COIN-078B : Internet Programming with XML

Assignment 3 Output Screenshots

XML/XSL Viewer

Load XML Data Files

- elements.xml
- assign4a.xml
- assign4b.xml

Load XSL Stylesheets

- raw-xml.xml
- defaultss.xml
- assign1.xml
- assign2.xml
- assign4.xml
- assign4_time.xml

Transform To

Sort By

data-type:

order:

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="styles/elements_table.xsl"?>
<PERIODIC_TABLE>
  <ATOM>
    <NAME>Actinium</NAME>
    <ATOMIC_WEIGHT>227</ATOMIC_WEIGHT>
    <ATOMIC_NUMBER>89</ATOMIC_NUMBER>
    <OXIDATION_STATES>3</OXIDATION_STATES>
    <BOILING_POINT UNITS="Kelvin">3470</BOILING_POINT>
    <MELTING_POINT UNITS="Kelvin">1323</MELTING_POINT>
    <SYMBOL>Ac</SYMBOL>
    <DENSITY UNITS="grams/cubic centimeter"><!-- At 300K -->
      10.07
    </DENSITY>
    <ELECTRON_CONFIGURATION>[Rn] 6d1 7s2</ELECTRON_CONFIGURATION>
    <ELECTRONEGATIVITY>1.1</ELECTRONEGATIVITY>
    <ATOMIC_RADIUS UNITS="Angstroms">1.88</ATOMIC_RADIUS>
    <ATOMIC_VOLUME UNITS="cubic centimeters/mole">
      22.5
    </ATOMIC_VOLUME>
    <IONIZATION_POTENTIAL>5.17</IONIZATION_POTENTIAL>
    <SPECIFIC_HEAT_CAPACITY UNITS="Joules/gram/degree Kelvin">
      0.12
    </SPECIFIC_HEAT_CAPACITY>
    <THERMAL_CONDUCTIVITY UNITS="Watts/meter/degree Kelvin">
      <!-- At 300K -->
      12
    </THERMAL_CONDUCTIVITY>
  </ATOM>
  <ATOM>
    <NAME>Aluminum</NAME>
    <ATOMIC_WEIGHT>26.98154</ATOMIC_WEIGHT>
    <ATOMIC_NUMBER>13</ATOMIC_NUMBER>
    <OXIDATION_STATES>3</OXIDATION_STATES>
    <BOILING_POINT UNITS="Kelvin">2740</BOILING_POINT>
    <MELTING_POINT UNITS="Kelvin">933.5</MELTING_POINT>
    <SYMBOL>Al</SYMBOL>
    <DENSITY UNITS="grams/cubic centimeter"><!-- At 300K -->
```

"elements.xml" is clicked

XML/XSL
Viewer

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Transform To

Sort By

 data-type:

 order:

Table of Elements

Atomic Number	Symbol	Name	Atomic Weight	Melting Point (Kelvin)	Boiling Point (Kelvin)	Atomic Radius (Angstroms)	State (@ 298 K)
89	Ac	Actinium	227.00000	1323.00	3470.00	1.88	●
13	Al	Aluminum	26.98154	933.50	2740.00	1.43	●
95	Am	Americium	243.00000	1449.00	2880.00	1.84	●
51	Sb	Antimony	121.75700	903.91	1860.00	1.59	●
18	Ar	Argon	39.94800	83.95	87.45	.88	○
33	As	Arsenic	74.92160	1090.00	876.00	1.39	●
85	At	Astatine	210.00000	575.00	610.00	1.45	●
56	Ba	Barium	137.33000	1002.00	2078.00	2.22	●
97	Bk	Berkelium	247.00000	1259.00			
4	Be	Beryllium	9.01218	1560.00	3243.00	1.12	●
83	Bi	Bismuth	208.98040	544.59	1837.00	1.70	●
107	Bh	Bohrium	262.00000				
5	B	Boron	10.81100	2365.00	4275.00	.98	●
35	Br	Bromine	79.90400	265.95	331.85	1.12	○
48	Cd	Cadmium	112.41000	594.26	1040.00	1.71	●

Assignment 3 - XML/XSL Viewer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

XML/XSL Viewer

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Transform To

Browser Source

Sort By

ATOMIC_RADIUS

data-type: number

order: descending

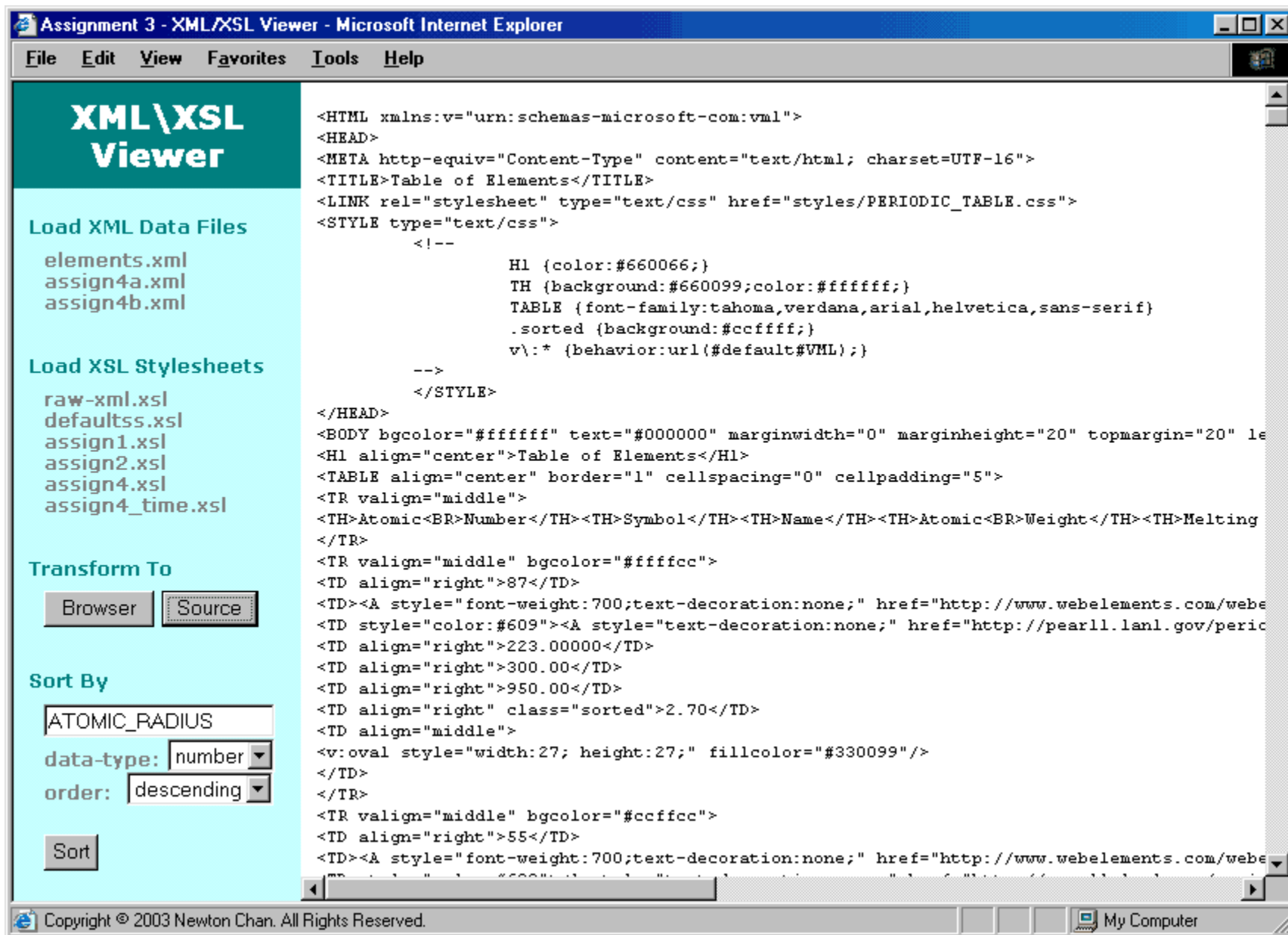
Sort

Atomic Number	Symbol	Name	Atomic Weight	Melting Point (Kelvin)	Boiling Point (Kelvin)	Atomic Radius (Angstroms)	State (@ 298 K)
87	Fr	Francium	223.00000	300.00	950.00	2.70	
55	Cs	Cesium	132.90540	301.54	944.00	2.67	
61	Pm	Promethium	145.00000	1315.00	3273.00	2.62	
37	Rb	Rubidium	85.46780	312.63	961.00	2.48	
19	K	Potassium	39.09830	336.80	1033.00	2.35	
88	Ra	Radium	226.02540	973.00	1413.00	2.33	
56	Ba	Barium	137.33000	1002.00	2078.00	2.22	
38	Sr	Strontium	87.62000	1042.00	1655.00	2.15	
63	Eu	Europium	151.96500	1095.00	1800.00	1.99	
20	Ca	Calcium	40.07800	1112.00	1757.00	1.97	
70	Yb	Ytterbium	173.04000	1092.00	1469.00	1.94	
11	Na	Sodium	22.98977	371.00	1156.00	1.90	

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My Computer

"Browser" or "Sort" button is clicked



"Source" button is clicked