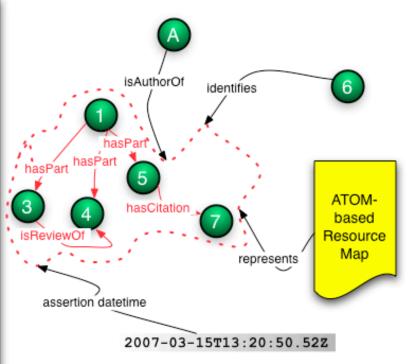
Named graph & ATOM exercise







```
<feed>
<id>6</id>
 k rel="self" href="6" type="application/ore+xml"/>
 <author>
  <uri>A</uri>
 </author>
 <updated>2007-03-15T13:20:50.52Z</updated>
<entry>
 <id trix:uri="6">1</id>
 k rel="hasPart" href="3" type="text/html"/>
 k rel="hasPart" href="4" type="application/pdf"/>
 <link rel="hasPart" href="5" type="application/pdf"/>
</entry>
<entry>
 <id trix:uri="6">3</id>
 k rel="isReviewOf" href="4" type="application/
                                              pdf"/>
</entry>
<entry>
 <id trix:uri="6">4</id>
</entry>
<entry>
 <id trix:uri="6">5</id>
 <link rel="hasCitation" href="7"/>
</entry>
</feed>
```



(7) Not considered part of the compound object

General principles: named graph

- Named graph => <feed>
- Metadata re named graph => elements of <feed>:
 - aTOM <id> for URI(G), <author>, <update>
 - ATOM k> for relationships and mime types of target
 - ATOM <extension> for additional metadata







General principles: resources of named graph

- Resources of named graph => <entry>
- Metadata re resources of named graph => elements of <entry>:
 - aTOM <id>for URI(1), <author>, <update>
 - ATOM k> for relationships and mime types of target
 - ATOM <extension> for additional metadata







General principles: CO from repo

- Containment node of named graph ~ node that represents CO
 => containment <entry>
- Metadata re CO => elements of containment <entry>:
 - ATOM <id> for URI(CO), <author>, <update>
 - ATOM k> for relationships and mime types of target, especially hasPart to URI(1), URI(2), URI(3)
 - . ATOM <extension> for additional metadata







Just a bag







Just a bag (1)

- Named graph => <feed> element of ATOM
- Metadata at the level of the named graph: express at <feed>
 level of ATOM
 - o HTTP URI that identifies the named graph => <id> element of ATOM <feed>
 - datetime of assertion of the named graph => <update> element of ATOM <feed>
 - author of the named graph => <author> element of ATOM <feed>
 - Other metadata => <extension> element of ATOM <feed>







Just a bag (2)

- Resources of the bag => <entry> element of ATOM
- Metadata at the level of resources of the bag: express at the level of the respective <entry> of ATOM
 - URI that identifies the resource => <id> element of ATOM <entry>
 - Further relationships: <link> element of <entry>
 - Further metadata: <extension> element of <entry>







Just a bag (summary)

```
<?xml version="1.0" encoding="utf-8"?>
       <feed xmlns="http://www.w3.org/2005/Atom"</pre>
              xmlns:trix="http://www.w3.org/2004/03/trix/trix-1/">
          <author>
            <uri>URI (author) </uri>
NG
          </author>
          <updated>2007-03-15T13:20:50.52Z</updated>
         \langle id \rangle URI(G) \langle /id \rangle
         <link rel="self" href="URI(G)" type="application/atom+ore+xml" />
         <entry>
          <id trix:uri="URI(G)">URI(1)</id>
         <link rel="self" href="URI(1)" type="text/html" />
        </entry>
         <entry>
         <id trix:uri="URI(G)">URI(2)</id>
         k rel="self" href="URI(2" type="application/pdf" />
        </entry>
        <entry>
         <id trix:uri="URI(G)">URI(3)</id>
         <link rel="self" href="URI(3)" type="text/html" />
        </entry>
        </feed>
```







Sequence







Sequence (1)

- Named graph => <feed> element of ATOM
- Metadata at the level of the named graph: express at <feed>
 level of ATOM
 - o HTTP URI that identifies the named graph => <id> element of ATOM <feed>
 - datetime of assertion of the named graph => <update> element of ATOM <feed>
 - author of the named graph => <author> element of ATOM <feed>
 - Other metadata => <extension> element of ATOM <feed>







Sequence (2)

- Resources of the sequence => <entry> element of ATOM
- Metadata at the level of resources of the sequence: express at respective <entry> level of ATOM
 - URI that identifies the resource => <id> element of ATOM <entry>
 - Further relationships: k> element of <entry> (see next for sequence)
 - Further metadata: <extension> element of <entry>







Sequence (3)

Sequence relationships: k> element of <entry>

```
<entry>
    <id>URI(1) </id>
    link rel="self" href="URI(1)" type="text/html" />
    link rel="hasNext" href="URI(2)" type="application/pdf" />

</entry>
<entry>
    <id>URI(2) </id>
    link rel="self" href="URI(2" type="application/pdf" />
    link rel="hasNext" href="URI(3)" type="text/html" />

</entry>
<entry>
    <id>URI(3) </id>
    link rel="self" href="URI(3)" type="text/html" />

</entry>
<id>URI(3) </id>
    Ink rel="self" href="URI(3)" type="text/html" />

</entry>
</entry>
```







Sequence (summary)

```
<?xml version="1.0" encoding="utf-8"?>
        <feed xmlns="http://www.w3.org/2005/Atom"</pre>
               xmlns:trix="http://www.w3.org/2004/03/trix/trix-1/">
          <author>
            <uri>URI (author) </uri>
NG
          </author>
          <updated>2007-03-15T13:20:50.52Z</updated>
          \langle id \rangle URI(G) \langle /id \rangle
          <link rel="self" href="URI(G)" type="application/atom+ore+xml" />
          <entry>
          <id trix:uri="URI(G)">URI(1)</id>
          <link rel="self" href="URI(1)" type="text/html" />
          <link rel="hasNext" href="URI(2)" type="application/pdf" />
          </entry>
         <entry>
          <id trix:uri="URI(G)">URI(2)</id>
          <link rel="self" href="URI(2" type="application/pdf" />
          <link rel="hasNext" href="URI(3)" type="text/html" />
         </entry>
         <entry>
          <id trix:uri="URI(G)">URI(3)</id>
          k rel="self" href="URI(3)" type="text/html" />
         </entry>
        </feed>
```







Compound Object from Repo







Compound Object from Repo (1)

- Named graph => <feed> element of ATOM
- Metadata at the level of the named graph: express at <feed>
 level of ATOM
 - o HTTP URI that identifies the named graph => <id> element of ATOM <feed>
 - datetime of assertion of the named graph => <update> element of ATOM <feed>
 - author of the named graph => <author> element of ATOM <feed>
 - Other metadata => <extension> element of ATOM <feed>







Compound Object from Repo (2)

- Introduce containment node to deal with the CO thing-thathas-parts => "containment" <entry> element of ATOM
- Metadata at the level of the CO: express at the level of the "containment" <entry> of ATOM
 - URI that identifies the containment node => <id> element of ATOM
 "containment" <entry>
 - Further relationships: k> element of "containment" <entry> (see later for hasPart)
 - Further metadata: <extension> element of <entry>







Compound Object from Repo (3)

- Other resources of CO => <entry> element of ATOM
- Metadata at the level of the resources of the CO: express at the level of the respective <entry> of ATOM
 - URI that identifies the resource => <id> element of ATOM <entry>
 - Further relationships: k element of <entry>
 - Further metadata: <extension> element of <entry>







Compound Object from Repo (4)

hasParts relationships: k> element of "containment"
 <entry>

```
<entry>
    <id>URI(CO) </id>
    link rel="self" href="URI(CO)" type="text/html" />
    link rel="hasPart" href="URI(1)" type="text/html" />
    rel="hasPart" href="URI(2)" type="application/pdf" />
    rel="hasPart" href="URI(3)" type="application/pdf" />
    </entry>
...
```







Compound Object from Repo (5)

- No further metadata at the level of these resources except for optional mime type.

```
centry>
    <id>URI(1)</id>
    link rel="self" href="URI(1)" type="text/html" />
    link rel="cites" href="URI(external)" type="text/html" /> ...
</entry>
...
```





Compound Object from Repo (summary)

```
<?xml version="1.0" encoding="utf-8"?>
       <feed xmlns="http://www.w3.org/2005/Atom"</pre>
       xmlns:trix="http://www.w3.org/2004/03/trix/trix-1/">
         <author>
           <uri>URI (author) </uri>
NG
         </author>
         <updated>2007-03-15T13:20:50.52Z</updated>
         <id>URI(G)</id>
         <link rel="self" href="URI(G)" type="application/atom+ore+xml" />
        <entry>
         <id trix:uri="G">URI(CO)</id>
         <link rel="self" href="URI(CO)" type="text/html" />
CO
         <link rel="hasPart" href="URI(1)" type="text/html" />
         <link rel="hasPart" href="URI(2)" type="application/pdf" />
         <link rel="hasPart" href="URI(3)" type="application/pdf" />
        </entry>
        <entry>
         <id trix:uri="URI(G)">URI(1)</id>
         <link rel="self" href="URI(1)" type="text/html" />
        </entry>
        <entry>
         <id trix:uri="URI(G)">URI(2)</id>
         k rel="self" href="URI(2)" type="application/pdf" />
        </entry>
        <entry>
         <id trix:uri="URI(G)">URI(3)</id>
         <link rel="self" href="URI(3)" type="text/html" />
        </entry>
       </feed>
```





