

RESEARCH TOOLS 2011

VIDEO 17

2011-Nov-07

Kurt Schwehr

<http://schwehr.org>

UNH CCOM/JHC

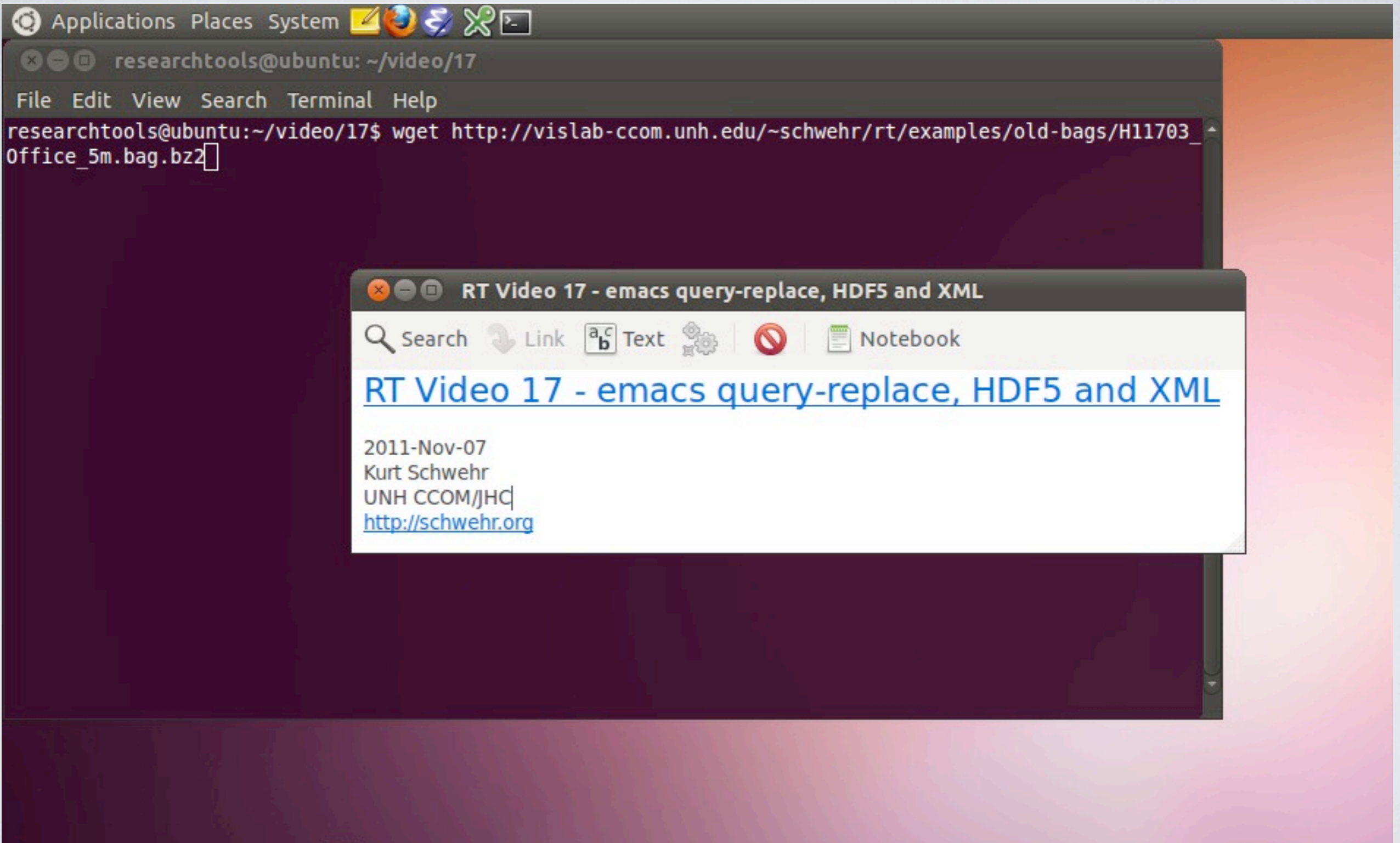
emacs replacing strings and xml



Wednesday, November 9, 11

<http://vislab-ccom.unh.edu/~schwehr/Courses/2011/esci895-researchtools/>

<http://creativecommons.org/licenses/by-nc-sa/3.0/>



```
Applications Places System [Icons] [Terminal]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
researchtools@ubuntu:~/video/17$ wget http://vislab-ccom.unh.edu/~schwehr/rt/examples/old-bags/H11703_Office_5m.bag.bz2
--2011-11-07 16:44:12-- http://vislab-ccom.unh.edu/~schwehr/rt/examples/old-bags/H11703_Office_5m.bag.bz2
Resolving vislab-ccom.unh.edu... 132.177.103.235
Connecting to vislab-ccom.unh.edu|132.177.103.235|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1474546 (1.4M) [application/x-bzip2]
Saving to: `H11703_Office_5m.bag.bz2'

100%[=====>] 1,474,546 1.20M/s in 1.2s

2011-11-07 16:44:13 (1.20 MB/s) - `H11703_Office_5m.bag.bz2' saved [1474546/1474546]

researchtools@ubuntu:~/video/17$ file H11703_Office_5m.bag.bz2
H11703_Office_5m.bag.bz2: bzip2 compressed data, block size = 900k
researchtools@ubuntu:~/video/17$ bunzip2 H11703_Office_5m.bag.bz2
researchtools@ubuntu:~/video/17$ ls -l
total 22468
-rw-r--r-- 1 researchtools researchtools 23003248 2011-10-27 09:44 H11703_Office_5m.bag
researchtools@ubuntu:~/video/17$ file H11703_Office_5m.bag
H11703_Office_5m.bag: Hierarchical Data Format (version 5) data
researchtools@ubuntu:~/video/17$ sudo apt-get install hdf5-tools
```

h5ls(1)

h5ls(1)

NAME

h5ls - Prints information about a file or dataset.

SYNOPSIS

h5ls [OPTIONS] file [OBJECTS...]

DESCRIPTION

h5ls prints selected information about file objects in the specified format.

OPTIONS

- h or -? or --help Print a usage message and exit.
- a or --address Print addresses for raw data.
- d or --data Print the values of datasets.
- e or --errors Show all HDF5 error reporting.
- f or --full Print full path names instead of base names.
- g or --group Show information about a group, not its contents.

Manual page h5ls(1) line 1

```
Applications Places System [Icons] [Terminal]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
researchtools@ubuntu:~/video/17$ ls -l
total 22468
-rw-r--r-- 1 researchtools researchtools 23003248 2011-10-27 09:44 H11703_Office_5m.bag
researchtools@ubuntu:~/video/17$ file H11703_Office_5m.bag
H11703_Office_5m.bag: Hierarchical Data Format (version 5) data
researchtools@ubuntu:~/video/17$ sudo apt-get install hdf5-tools
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
hdf5-tools is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
researchtools@ubuntu:~/video/17$ man h5ls
researchtools@ubuntu:~/video/17$ h5ls H11703_Office_5m.bag
BAG_root          Group
researchtools@ubuntu:~/video/17$ man h5ls
researchtools@ubuntu:~/video/17$ h5ls --recursive H11703 Office_5m.bag
/                  Group
/BAG_root          Group
/BAG_root/elevation Dataset {1434, 2004}
/BAG_root/metadata Dataset {5097/Inf}
/BAG_root/tracking_list Dataset {0/Inf}
/BAG_root/uncertainty Dataset {1434, 2004}
researchtools@ubuntu:~/video/17$
```

```
Applications Places System [Icons] [Terminal]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
researchtools@ubuntu:~/video/17$ ls -l
total 22468
-rw-r--r-- 1 researchtools researchtools 23003248 2011-10-27 09:44 H11703_Office_5m.bag
researchtools@ubuntu:~/video/17$ file H11703_Office_5m.bag
H11703_Office_5m.bag: Hierarchical Data Format (version 5) data
researchtools@ubuntu:~/video/17$ sudo apt-get install hdf5-tools
[sudo] password for researchtools:
Reading package lists... Done
Building dependency tree
Reading state information... Done
hdf5-tools is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 3 not upgraded.
researchtools@ubuntu:~/video/17$ man h5ls
researchtools@ubuntu:~/video/17$ h5ls H11703_Office_5m.bag
BAG_root          Group
researchtools@ubuntu:~/video/17$ man h5ls
researchtools@ubuntu:~/video/17$ h5ls --recursive H11703_Office_5m.bag
/                  Group
/BAG_root          Group
/BAG_root/elevation Dataset {1434, 2004}
/BAG_root/metadata Dataset {5097/Inf}
/BAG_root/tracking_list Dataset {0/Inf}
/BAG_root/uncertainty Dataset {1434, 2004}
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata
```

metadata Dataset {5097/Inf}

Data:

"<"
"?"
"x"
"m"
"l"
"%20"
"v"
"e"
"r"
"s"
"i"
"o"
"n"
"="
""
"1"
"."
"0"
""
"?"
">"

:

```
Applications Places System [Icons] [Terminal]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | head
metadata          Dataset {5097/Inf}
Data:
  "<"
  "?"
  "x"
  "m"
  "l"
  "%20"
  "v"
  "e"
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' | head
  "<"
  "?"
  "x"
  "m"
  "l"
  "%20"
  "v"
  "e"
  "r"
  "s"
researchtools@ubuntu:~/video/17$
```



```
"<"
"?"
"x"
"m"
"l"
"%20"
"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' |
cut -d\" -f2 | head
<
?
x
m
l
%20
v
e
r
s
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' |
cut -d\" -f2 | tr -d '\n' | less
```

```
<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.org/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml><identificationInfo><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG%20file%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><smXML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrographic%20Branch</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%20Division</organisationName><positionName>Chief,%20Pacific%20Hydrographic%20Branch</positionName><role>pointOfContact</role></smXML:CI_ResponsibleParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>Project:%20PR-0322-KR-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Locality:%20Chatham%20Strait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20Bay;%20Date%20of%20Survey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fugro%20Pelagos,%20Inc;%20Verification%20by:%20Pacific%20Hydrographic%20Branch</abstract><status>historicalArchive</status><spatialRepresentationType>grid</spatialRepresentationType><language>en</language><topicCategory>elevation</topicCategory><extent><smXML:EX_Extent><geographicElement><smXML:EX_GeographicBoundingBox><westBoundLongitude>-134.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLongitude><southBoundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</northBoundLatitude></smXML:EX_GeographicBoundingBox></geographicElement></smXML:EX_Extent></extent><verticalUncertaintyType>Unknown</verticalUncertaintyType></smXML:BAG_DataIdentification></identificationInfo><metadataConstraints><smXML:MD_LegalConstraints><useConstraints>otherRestrictions</useConstraints><otherConstraints>Not%20to%20be%20used%20for%20Navigation</otherConstraints></smXML:MD_LegalConstraints></metadataConstraints><metadataConstraints><smXML:MD_SecurityConstraints><classification>unclassified</classification></smXML:MD_SecurityConstraints></metadataConstraints><dataQualityInfo><smXML:DQ_DataQuality><scope><smXML:DQ_Scope><level>dataset</level></smXML:DQ_Scope></scope></smXML:DQ_DataQuality></dataQualityInfo>
```



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XML

From Wikipedia, the free encyclopedia

Extensible Markup Language (XML) is a set of rules for encoding documents in machine-readable form. It is defined in the XML 1.0 Specification^[4] produced by the W3C, and several other related specifications, all gratis open standards.^[5]

The design goals of XML emphasize simplicity, generality, and usability over the Internet.^[6] It is a textual data format with strong support via Unicode for the languages of the world. Although the design of XML focuses on documents, it is widely used for the representation of arbitrary data structures, for example in web services.

Many application programming interfaces (APIs) have been developed that software developers use to process XML data, and several schema systems exist to aid in the definition of XML-based languages.

XML

```
<?xml version="1.0"?>
<quiz>
  <question>
    Who was the forty-second
    president of the U.S.A.?
  </question>
  <answer>
    William Jefferson Clinton
  </answer>
  <!-- Note: We need to add
  more questions later.-->
</quiz>
```

Applications Places System

XML - Wikipedia, the free encyclopedia - Mozilla Firefox

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W XML - Wikipedia, the free ency... +

en.wikipedia.org/wiki/XML

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example (below) the element *img* has two attributes, *src* and *alt*:
. Another example would be
<step number="3">Connect A to B.</step> where the name of the attribute is "number" and the value is "3".

XML Declaration

XML documents may begin by declaring some information about themselves, as in the following example.

```
<?xml version="1.0" encoding="UTF-8" ?>
```

Characters and escaping [edit]

XML documents consist entirely of characters from the [Unicode](#) repertoire. Except for a small number of specifically excluded [control characters](#), any character defined by Unicode may appear within the content of an XML document. The selection of characters that may appear within markup is somewhat more limited but still large.

XML includes facilities for identifying the *encoding* of the Unicode characters that make up the document, and for expressing characters that, for one reason or another, cannot be used directly.

Valid characters [edit]

Main article: [Valid characters in XML](#)

Unicode code points in the following ranges are valid in XML 1.0 documents.^[9]

```
"m"  
"l"  
"%20"  
"v"  
"e"  
"r"  
"s"  
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' |  
cut -d\" -f2 | head  
<  
?  
x  
m  
l  
%20  
v  
e  
r  
s  
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' |  
cut -d\" -f2 | tr -d '\n' | less  
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' |  
cut -d\" -f2 | tr -d '\n' > H11703_Office_5m-try1.xml  
researchtools@ubuntu:~/video/17$ emacsclient --no-wait H11703_Office_5m
```



Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools XML YASnippet Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
xml
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml><identification
Info><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG%20fil
e%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Off
ice\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</dat
e><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><sm
XML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrographic%20Branch
</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%
20Division</organisationName><positionName>Chief,%20Pacific%20Hydrographic%20Bra
nch</positionName><role>pointOfContact</role></smXML:CI_ResponsibleParty></cited
ResponsibleParty></smXML:CI_Citation></citation><abstract>Project:%20PR-0322-KR
-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Locality:%20Chatham%20S
trait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20Bay;%20Date%20of%20Su
rvey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fugro%20Pelagos,%20Inc;%
20Verification%20by:%20Pacific%20Hydrographic%20Branch</abstract><status>histori
calArchive</status><spatialRepresentationType>grid</spatialRepresentationType><l
anguage>en</language><topicCategory>elevation</topicCategory><extent><smXML:EX_E
xtent><geographicElement><smXML:EX_GeographicBoundingBox><westBoundLongitude>-13
4.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLongitude><southB
oundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</northBoundLati

-U:--- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools YASnippet Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
xml
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag H:
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

g

-U:***- test.txt All L3 (Text yas)-----

```

?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml><identification
Info><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG%20fil
e%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Off
ice\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</dat
e><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><sm
XML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrographic%20Branch
</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%
20Division</organisationName><positionName>Chief,%20Pacific%20Hydrographic%20Bra

```

-U:--- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----

C-q g

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools YASnippet Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
xml
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

g

-U:***- test.txt All L4 (Text yas)-----

```

<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml><identification
Info><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG%20fil
e%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Off
ice\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</dat
e><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><sm
XML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrographic%20Branch
</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%
20Division</organisationName><positionName>Chief,%20Pacific%20Hydrographic%20Bra

```

-U:--- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----

C-q C-j

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools XML YASnippet Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
xml
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml><identification
Info><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG%20fil
e%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Off
fice\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</dat
e><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><sm
XML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrographic%20Branch
</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%
20Division</organisationName><positionName>Chief,%20Pacific%20Hydrographic%20Bra
nch</positionName><role>pointOfContact</role></smXML:CI_ResponsibleParty></cited
ResponsibleParty></smXML:CI_Citation></citation><abstract>Project:%20PR-0322-KR
-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Locality:%20Chatham%20S
trait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20Bay;%20Date%20of%20Su
rvey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fugro%20Pelagos,%20Inc;%
20Verification%20by:%20Pacific%20Hydrographic%20Branch</abstract><status>histori
calArchive</status><spatialRepresentationType>grid</spatialRepresentationType><l
anguage>en</language><topicCategory>elevation</topicCategory><extent><smXML:EX_E
xtent><geographicElement><smXML:EX_GeographicBoundingBox><westBoundLongitude>-13
4.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLongitude><southB
oundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</northBoundLati

-U:--- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools Minibuf Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
x
m
l
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

```

?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml><identification
Info><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG%20fil
e%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Off
ice\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</dat
e><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><sm
XML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrographic%20Branch
</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%
20Division</organisationName><positionName>Chief,%20Pacific%20Hydrographic%20Bra
nch</positionName><role>pointOfContact</role></smXML:CI_ResponsibleParty></cited
ResponsibleParty></smXML:CI_Citation></citation><abstract>Project:%20PR-0322-KR
-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Locality:%20Chatham%20S
trait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20Bay;%20Date%20of%20Su
rvey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fugro%20Pelagos,%20Inc;%
20Verification%20by:%20Pacific%20Hydrographic%20Branch</abstract><status>histori
calArchive</status><spatialRepresentationType>grid</spatialRepresentationType><l
anguage>en</language><topicCategory>elevation</topicCategory><extent><smXML:EX_E
xtent><geographicElement><smXML:EX_GeographicBoundingBox><westBoundLongitude>-13
4.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLongitude><southB
oundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</northBoundLati

```

-U:--- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----

M-x query-replace

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools XML YASnippet Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
x
m
l
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

```

<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml>
<identificationInfo>
<smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG%20file%20c
reated%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Office\H
11703_Office_5m_Final.hns</title>
<date>
<smXML:CI_Date>
<date>2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><cite
dResponsibleParty><smXML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20
Hydrographic%20Branch</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hy
drographic%20Surveys%20Division</organisationName><positionName>Chief,%20Pacific
%20Hydrographic%20Branch</positionName><role>pointOfContact</role></smXML:CI_Res
ponsibleParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>P
roject:%20PR-0322-KR-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Loc
ality:%20Chatham%20Strait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20
Bay;%20Date%20of%20Survey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fug
ro%20Pelagos,%20Inc;%20Verification%20by:%20Pacific%20Hydrographic%20Branch</abs
tract><status>historicalArchive</status><spatialRepresentationType>grid</spatial
RepresentationType><language>en</language><topicCategory>elevation</topicCategor

```

-U:**- H11703_Office_5m-try1.xml Top L6 (nXML Invalid yas)-----

Query replacing >< with >^J<: (? for help)

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools XML YASnippet Help

```
"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
xml
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag H:
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,
```

<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml>
<identificationInfo><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><
<title>BAG%20file%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsh
<eets\H11703_Office\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>
<2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><citedRespo
<nsibleParty><smXML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrog
<raphic%20Branch</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrogra
<phic%20Surveys%20Division</organisationName><positionName>Chief,%20Pacific%20Hyd
<rographic%20Branch</positionName><role>pointOfContact</role></smXML:CI_Responsib
<leParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>Project
<:%20PR-0322-KR-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Locality:
<:%20Chathman%20Strait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20Bay;%2
<0Date%20of%20Survey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fugro%20P
<elagos,%20Inc;%20Verification%20by:%20Pacific%20Hydrographic%20Branch</abstract>
<status>historicalArchive</status><spatialRepresentationType>grid</spatialRepres
<entationType><language>en</language><topicCategory>elevation</topicCategory><ext
<ent><smXML:EX_Extent><geographicElement><smXML:EX_GeographicBoundingBox><westBou
<ndLongitude>-134.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLo
<ngitude><southBoundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40<
</U:**- H11703_Office_5m-try1.xml Top L2 (nXML Invalid yas)-----

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools Minibuf Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
xm
l
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag H:
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

```

<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml>
<identificationInfo><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><
title>BAG%20file%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsh
eets\H11703_Office\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>
2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><citedRespo
nsibleParty><smXML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrog
raphic%20Branch</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrogra
phic%20Surveys%20Division</organisationName><positionName>Chief,%20Pacific%20Hyd
rographic%20Branch</positionName><role>pointOfContact</role></smXML:CI_Responsib
leParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>Project
:%20PR-0322-KR-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Locality:
%20Chatham%20Strait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20Bay;%2
0Date%20of%20Survey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fugro%20P
elagos,%20Inc;%20Verification%20by:%20Pacific%20Hydrographic%20Branch</abstract>
<status>historicalArchive</status><spatialRepresentationType>grid</spatialRepres
entationType><language>en</language><topicCategory>elevation</topicCategory><ext
ent><smXML:EX_Extent><geographicElement><smXML:EX_GeographicBoundingBox><westBou
ndLongitude>-134.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLo
ngitude><southBoundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</

```

-U:**- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----

M-x replace-string

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools Minibuf Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
xm
l
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag H:
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

```

[?]xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml>
<identificationInfo><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><
title>BAG%20file%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsh
eets\H11703_Office\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>
2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><citedRespo
nsibleParty><smXML:CI_ResponsibleParty><individualName>Chief,%20Pacific%20Hydrog
raphic%20Branch</individualName><organisationName>NOAA,%20NOS,%20OCS,%20Hydrogra
phic%20Surveys%20Division</organisationName><positionName>Chief,%20Pacific%20Hyd
rographic%20Branch</positionName><role>pointOfContact</role></smXML:CI_Responsib
leParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>Project
:%20PR-0322-KR-07;%20Survey:%20H11703;%20State:%20Alaska;%20General%20Locality:
%20Chatham%20Strait;%20Sublocality:%20North%20and%20South%20Arm%20Hood%20Bay;%2
0Date%20of%20Survey:%2009/01/2007%20-%2009/09/2007;%20Surveyed%20by:%20Fugro%20P
elagos,%20Inc;%20Verification%20by:%20Pacific%20Hydrographic%20Branch</abstract>
<status>historicalArchive</status><spatialRepresentationType>grid</spatialRepres
entationType><language>en</language><topicCategory>elevation</topicCategory><ext
ent><smXML:EX_Extent><geographicElement><smXML:EX_GeographicBoundingBox><westBou
ndLongitude>-134.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLo

```

-U:**- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----

Replace string >< with: >

<

Applications Places System

researchtools@ubuntu emacs23@ubuntu

File Edit View Search Term File Edit Options Buffers Tools Minibuf Help

```

"v"
"e"
"r"
"s"
researchtools@ubuntu:~/video,
cut -d\" -f2 | head
<
?
x
m
l
%20
v
e
r
s
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' |
researchtools@ubuntu:~/video,
cut -d\" -f2 | tr -d '\n' >
researchtools@ubuntu:~/video,
H11703_Office_5m.bag
researchtools@ubuntu:~/video,
researchtools@ubuntu:~/video,

```

```

<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
rg/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.or
g/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml>
<identificationInfo>
<smXML:BAG_DataIdentification>
<citation>
<smXML:CI_Citation>
<title>BAG%20file%20created%20from:%20N:\0PR0322KR07\Surveys\H11703\Caris\Fields
heets\H11703_Office\H11703_Office_5m_Final.hns</title>
<date>
<smXML:CI_Date>
<date>2008-05-09</date>
<dateType>creation</dateType>
</smXML:CI_Date>
</date>
<citedResponsibleParty>
<smXML:CI_ResponsibleParty>
<individualName>Chief,%20Pacific%20Hydrographic%20Branch</individualName>
<organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%20Division</organ
isationName>
<positionName>Chief,%20Pacific%20Hydrographic%20Branch</positionName>
-U:**- H11703_Office_5m-try1.xml Top L1 (nXML Invalid yas)-----
M-x indent-region

```

```
Applications Places System [Icons]
emacs23@ubuntu
Fi File Edit Options Buffers Tools XML YASnippet Help
[Icons]
<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.org/smXML%20xmlns:xlink=http://www.w3.org/1999/xlink%20xmlns:xsi=http://www.w3.org/2001/XMLSchema-instance%20xmlns:gml=http://www.opengis.net/gml>
<identificationInfo>
  <smXML:BAG_DataIdentification>
    <citation>
      <smXML:CI_Citation>
        <title>BAG%20file%20created%20from:%20N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Office\H11703_Office_5m_Final.hns</title>
        <date>
          <smXML:CI_Date>
            <date>2008-05-09</date>
            <dateType>creation</dateType>
          </smXML:CI_Date>
        </date>
        <citedResponsibleParty>
          <smXML:CI_ResponsibleParty>
            <individualName>Chief,%20Pacific%20Hydrographic%20Branch</individualName>
            <organisationName>NOAA,%20NOS,%20OCS,%20Hydrographic%20Surveys%20Division</organisationName>
            <positionName>Chief,%20Pacific%20Hydrographic%20Branch</positionName>
            <role>pointOfContact</role>
          </smXML:CI_ResponsibleParty>
        </citedResponsibleParty>
      </smXML:CI_Citation>
    </citation>
  </smXML:BAG_DataIdentification>
</identificationInfo>
-U:**- H11703_Office_5m-try1.xml Top L12 (nXML Invalid yas)-----
```



```
Applications Places System [Icons] [Terminal]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
%20
v
e
r
s
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' |
cut -d\" -f2 | tr -d '\n' | less
researchtools@ubuntu:~/video/17$ h5ls --simple -d H11703_Office_5m.bag/BAG_root/metadata | egrep '"' |
cut -d\" -f2 | tr -d '\n' > H11703_Office_5m-try1.xml
researchtools@ubuntu:~/video/17$ emacsclient --no-wait H11703_Office_5m
H11703_Office_5m.bag      H11703_Office_5m-try1.xml
researchtools@ubuntu:~/video/17$ emacsclient --no-wait H11703_Office_5m-try1.xml
researchtools@ubuntu:~/video/17$ xmllint H11703_Office_5m-try1.xml
H11703_Office_5m-try1.xml:1: parser error : XML declaration allowed only at the start of the document
<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
^
H11703_Office_5m-try1.xml:1: parser error : ParsePI: PI xml space expected
<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
^
H11703_Office_5m-try1.xml:1: parser error : Start tag expected, '<' not found
<?xml%20version=1.0?>%0a<smXML:MD_Metadata%20xmlns:smXML=http://metadata.dgiwg.o
^
researchtools@ubuntu:~/video/17$ #echo h5dump
researchtools@ubuntu:~/video/17$ man █
Wrote /home/researchtools/video/17/H11703_Office_5m-try1.xml
```

Link=htt
/www.ope
03_Office
hName>

```
Applications Places System [Icons]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
h5dump(1) h5dump(1)
NAME
  h5dump - Displays HDF5 file contents.
SYNOPSIS
  h5dump [OPTIONS] file
DESCRIPTION
  h5dump enables the user to examine the contents of an HDF5 file and dump those contents, in human readable form, to an ASCII file.

  h5dump dumps HDF5 file content to standard output. It can display the contents of the entire HDF5 file or selected objects, which can be groups, datasets, a subset of a dataset, links, attributes, or datatypes.

  The --header option displays object header information only.

  Names are the absolute names of the objects. h5dump displays objects in the order same as the command order. If a name does not start with a slash, h5dump begins searching for the specified object starting at the root group.

  If an object is hard linked with multiple names, h5dump displays the content of the object
Manual page h5dump(1) line 1
Wrote /home/researchtools/video/17/H11703_Office_5m-try1.xml
```

```
Applications Places System [Icons]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
^
researchtools@ubuntu:~/video/17$ #echo h5dump
researchtools@ubuntu:~/video/17$ man h5dump
researchtools@ubuntu:~/video/17$ echo h5dump -b FILE -o H11703_Office_5m.xml H11703_Office_5m.bag
h5dump -b FILE -o H11703_Office_5m.xml H11703_Office_5m.bag
researchtools@ubuntu:~/video/17$ echo h5dump -b FILE -d BAG_root/metadata -o H11703_Office_5m.xml H117
03_Office_5m.bag
researchtools@ubuntu:~/video/17$ echo h5dump -b FILE -d BAG_root/metadata -o H11703_Office_5m.{xml,bag}
h5dump -b FILE -d BAG_root/metadata -o H11703_Office_5m.xml H11703_Office_5m.bag
researchtools@ubuntu:~/video/17$ h5dump -b FILE -d BAG_root/metadata -o H11703_Office_5m.{xml,bag}
HDF5 "H11703_Office_5m.bag" {
DATASET "BAG_root/metadata" {
  DATATYPE H5T_STRING {
    STRSIZE 1;
    STRPAD H5T_STR_NULLTERM;
    CSET H5T_CSET_ASCII;
    CTYPE H5T_C_S1;
  }
  DATASPACE SIMPLE { ( 5097 ) / ( H5S_UNLIMITED ) }
  DATA {
  }
}
}
researchtools@ubuntu:~/video/17$
Wrote /home/researchtools/video/17/H11703_Office_5m-try1.xml
```

```
<?xml version="1.0"?>
<smXML:MD_Metadata xmlns:smXML="http://metadata.dgiwg.org/smXML" xmlns:xlink="http://www.w3.org/1999/xlink"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gml="http://www.opengis.net/gml"><identificationInfo><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG file created from: N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Office\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><smXML:CI_ResponsibleParty><individualName>Chief, Pacific Hydrographic Branch</individualName><organisationName>NOAA, NOS, OCS, Hydrographic Surveys Division</organisationName><positionName>Chief, Pacific Hydrographic Branch</positionName><role>pointOfContact</role></smXML:CI_ResponsibleParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>Project: OPR-0322-KR-07; Survey: H11703; State: Alaska; General Locality: Chatham Strait; Sublocality: North and South Arm Hood Bay; Date of Survey: 09/01/2007 - 09/09/2007; Surveyed by: Fugro Pelagos, Inc; Verification by: Pacific Hydrographic Branch</abstract><status>historicalArchive</status><spatialRepresentationType>grid</spatialRepresentationType><language>en</language><topicCategory>elevation</topicCategory><extent><smXML:EX_Extent><geographicElement><smXML:EX_GeographicBoundingBox><westBoundLongitude>-134.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLongitude><southBoundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</northBoundLatitude></smXML:EX_GeographicBoundingBox></geographicElement></smXML:EX_Extent></extent><verticalUncertaintyType>Unknown</verticalUncertaintyType></smXML:BAG_DataIdentification></identificationInfo><metadataConstraints><smXML:MD_LegalConstraints><useConstraints>otherRestrictions</useConstraints><otherConstraints>Not to be used for Navigation</otherConstraints></smXML:MD_LegalConstraints></metadataConstraints><metadataConstraints><smXML:MD_SecurityConstraints><classification>unclassified</classification></smXML:MD_SecurityConstraints></metadataConstraints><dataQualityInfo><smXML:DQ_DataQuality><scope><smXML:DQ_Scope><level>dataset</level></smXML:DQ_Scope></scope><lineage><smXML:LI_Lineage><source><smXML:LI_Source><description>BASE = N:\OPR0322KR07\Surveys\H11703\CH11703_Office_5m.xml
```

Wrote /home/researchtools/video/17/H11703_Office_5m-try1.xml

```
Applications Places System [Icons]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
h5dump -b FILE -d BAG_root/metadata -o H11703_Office_5m.xml H11703_Office_5m.bag
researchtools@ubuntu:~/video/17$ h5dump -b FILE -d BAG_root/metadata -o H11703_Office_5m.{xml,bag}
HDF5 "H11703_Office_5m.bag" {
  DATASET "BAG_root/metadata" {
    DATATYPE H5T_STRING {
      STRSIZE 1;
      STRPAD H5T_STR_NULLTERM;
      CSET H5T_CSET_ASCII;
      CTYPE H5T_C_S1;
    }
    DATASPACE SIMPLE { ( 5097 ) / ( H5S_UNLIMITED ) }
    DATA {
    }
  }
}
researchtools@ubuntu:~/video/17$ ls -l
total 22496
-rw-r--r-- 1 researchtools researchtools 23003248 2011-10-27 09:44 H11703_Office_5m.bag
-rw-r--r-- 1 researchtools researchtools 5956 2011-11-07 17:00 H11703_Office_5m-try1.xml
-rw-r--r-- 1 researchtools researchtools 5260 2011-11-07 16:51 H11703_Office_5m-try1.xml~
-rw-r--r-- 1 researchtools researchtools 5096 2011-11-07 17:04 H11703_Office_5m.xml
-rw-r--r-- 1 researchtools researchtools 14 2011-11-07 16:59 #test.txt#
researchtools@ubuntu:~/video/17$ less H11703_Office_5m.xml
researchtools@ubuntu:~/video/17$ xmllint H11703_Office_5m.xml
Wrote /home/researchtools/video/17/H11703_Office_5m-try1.xml
```

```
Applications Places System [Icons]
researchtools@ubuntu: ~/video/17
File Edit View Search Terminal Help
-rw-r--r-- 1 researchtools researchtools 23003248 2011-10-27 09:44 H11703_Office_5m.bag
-rw-r--r-- 1 researchtools researchtools      5956 2011-11-07 17:00 H11703_Office_5m-try1.xml
-rw-r--r-- 1 researchtools researchtools      5260 2011-11-07 16:51 H11703_Office_5m-try1.xml~
-rw-r--r-- 1 researchtools researchtools      5096 2011-11-07 17:04 H11703_Office_5m.xml
-rw-r--r-- 1 researchtools researchtools       14 2011-11-07 16:59 #test.txt#
researchtools@ubuntu:~/video/17$ less H11703_Office_5m.xml
researchtools@ubuntu:~/video/17$ xmllint H11703_Office_5m.xml
<?xml version="1.0"?>
<smXML:MD_Metadata xmlns:smXML="http://metadata.dgiwg.org/smXML" xmlns:xlink="http://www.w3.org/1999/xlink"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gml="http://www.opengis.net/gml"><identificationInfo><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG file created from: N:\OPR03
22KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Office\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date
><date>2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><smXML:CI_Respons
ibleParty><individualName>Chief, Pacific Hydrographic Branch</individualName><organisationName
>NOAA, NOS, OCS, Hydrographic Surveys Division</organisationName><positionName>Chief, Pacific Hydrographic
Branch</positionName><role>pointOfContact</role></smXML:CI_Respons
ibleParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>Project: OPR-0322-KR-07; Survey: H11703; State: Alaska; General Locali
ty: Chatham Strait; Sublocality: North and South Arm Hood Bay; Date of Survey: 09/01/2007 - 09/09/2007; S
urveyed by: Fugro Pelagos, Inc; Verification by: Pacific Hydrographic Branch</abstract><status>historicalA
rchive</status><spatialRepresentationType>grid</spatialRepresentationType><language>en</language><topicCat
egory>elevation</topicCategory><extent><smXML:EX_Extent><geographicElement><smXML:EX_GeographicBoundingBox
><westBoundLongitude>-134.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLongitude><southBou
ndLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</northBoundLatitude></smXML:EX_GeographicBo
undingBox></geographicElement></smXML:EX_Extent></extent><verticalUncertaintyType>Unknown</verticalUncerta
```

Wrote /home/researchtools/video/17/H11703_Office_5m-try1.xml

htt
ope
ffice
e>

```
Applications Places System [Icons]
emacs23@ubuntu
Fi File Edit Options Buffers Tools Minibuf Help
[Icons]
?xml version="1.0"?>
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xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gml="http://www.opengis.net/gml"><identificationInfo><smXML:BAG_DataIdentification><citation><smXML:CI_Citation><title>BAG file created from: N:\OPR0322KR07\Surveys\H11703\Caris\Fieldsheets\H11703_Office\H11703_Office_5m_Final.hns</title><date><smXML:CI_Date><date>2008-05-09</date><dateType>creation</dateType></smXML:CI_Date></date><citedResponsibleParty><smXML:CI_ResponsibleParty><individualName>Chief, Pacific Hydrographic Branch</individualName><organisationName>NOAA, NOS, OCS, Hydrographic Surveys Division</organisationName><positionName>Chief, Pacific Hydrographic Branch</positionName><role>pointOfContact</role></smXML:CI_ResponsibleParty></citedResponsibleParty></smXML:CI_Citation></citation><abstract>Project: OPR-0322-KR-07; Survey: H11703; State: Alaska; General Locality: Chatham Strait; Sublocality: North and South Arm Hood Bay; Date of Survey: 09/01/2007 - 09/09/2007; Surveyed by: Fugro Pelagos, Inc; Verification by: Pacific Hydrographic Branch</abstract><status>historicalArchive</status><spatialRepresentationType>grid</spatialRepresentationType><language>en</language><topicCategory>elevation</topicCategory><extent><smXML:EX_Extent><geographicElement><smXML:EX_GeographicBoundingBox><westBoundLongitude>-134.49</westBoundLongitude><eastBoundLongitude>-134.32</eastBoundLongitude><southBoundLatitude>57.34</southBoundLatitude><northBoundLatitude>57.40</northBoundLatitude></smXML:EX_GeographicBoundingBox></geographicElement></smXML:EX_Extent></extent><verticalUncertaintyType>Unknown</verticalUncertaintyType></smXML:BAG_DataIdentification></identificationInfo><metadataConstraints><smXML:MD_LegalConstraints><useConstraints>otherRestrictions</useConstraints><otherConstraints>Not to be used for Navigation</otherConstraints></smXML:MD_LegalConstraints></metadataConstraints><metadataConstraints><smXML:MD_SecurityConstraints><classification>unclassified</classification></smXML:MD_SecurityConstraints></metadataConstraints>
-U:--- H11703_Office_5m.xml Top L1 (nXML Valid yas)-----
Replace string (default >< -> >^J<):
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Applications Places System [Icons]
emacs23@ubuntu
Fi File Edit Options Buffers Tools Minibuf Help
[Icons]
?xml version="1.0"?>
<smXML:MD_Metadata xmlns:smXML="http://metadata.dgiwg.org/smXML" xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gml="http://www.opengis.net/gml">
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              <individualName>Chief, Pacific Hydrographic Branch</individualName>
              <organisationName>NOAA, NOS, OCS, Hydrographic Surveys Division</organisationName>
              <positionName>Chief, Pacific Hydrographic Branch</positionName>
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-U:**- H11703_Office_5m.xml Top L1 (nXML Valid yas)-----
M-x indent-region
```



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Applications Places System [Icons]
emacs23@ubuntu
File Edit Options Buffers Tools XML YASnippet Help
[Icons]
<?xml version="1.0"?>
<smXML:MD_Metadata xmlns:smXML="http://metadata.dgiwg.org/smXML" xmlns:xlink="http://www.w3.org/1999/xlink"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:gml="http://www.opengis.net/gml">
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    <smXML:BAG_DataIdentification>
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              <individualName>Chief, Pacific Hydrographic Branch</individualName>
              <organisationName>NOAA, NOS, OCS, Hydrographic Surveys Division</organisationName>
              <positionName>Chief, Pacific Hydrographic Branch</positionName>
              <role>pointOfContact</role>
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          </citedResponsibleParty>
        </smXML:CI_Citation>
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    </smXML:BAG_DataIdentification>
  </identificationInfo>
</smXML:MD_Metadata>
-U:--- H11703_Office_5m.xml Top L7 (nXML Valid yas)-----
```