

# Demo Self Service Xref and Publish

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1. Teresa has created a [GitHub](#) repository layout for the Oxygen Workshop.

The screenshot shows a GitHub repository page for 'ryffine / workshop-ditao2-2019Sept24'. The repository has 69 commits, 2 branches, and 3 contributors. The commits are listed in a table with columns for file, commit message, and date. The commits include actions like 'Initial commit', 'No commit message', 'Modify topic', and 'Add student maps in student folders, create student topics in portal'. A file named 'StudentRegistration.csv' is listed at the bottom of the commit table.

**Figure 1: Teresa's Oxygen Workshop GitHub repository layout.**

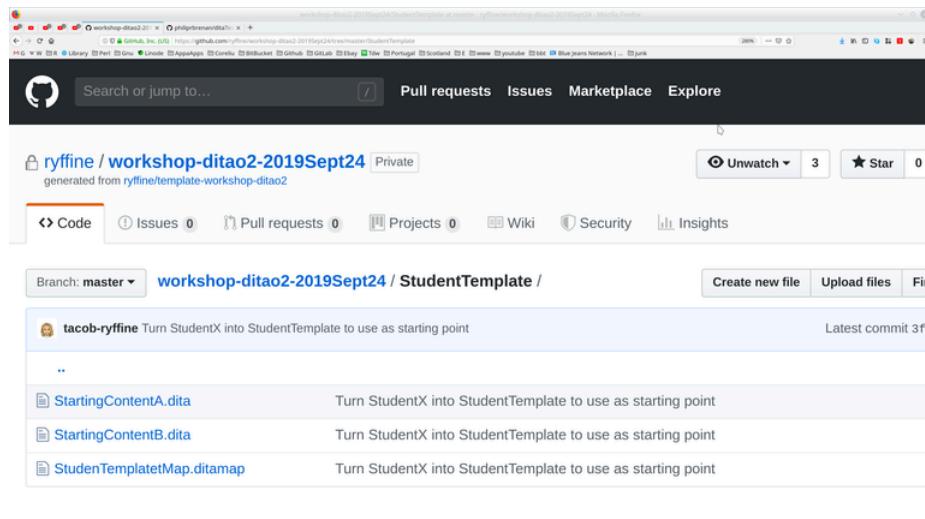
2. The repository contains a [csv](#) file describing the students taking the course

The screenshot shows the 'StudentRegistration.csv' file from the GitHub repository. The file contains 6 lines of data with the following content:

StudentId	StudentFirstName	StudentLastName	EmailAddress	PhoneNumber	CompanyName
1	StudentA	DentA	studenta@ryffine.com		Ryffine
2	StudentB	DentB	studentb@ryffine.com		Ryffine
3	StudentC	DentC	studentc@ryffine.com		Ryffine
4	StudentD	DentD	studentd@ryffine.com		Ryffine
5	StudentE	DentE	studente@ryffine.com		Ryffine
6	StudentF	DentF	studentf@ryffine.com		Ryffine
7	StudentG	DentG	studentg@ryffine.com		Ryffine
8	StudentH	DentH	studenth@ryffine.com		Ryffine

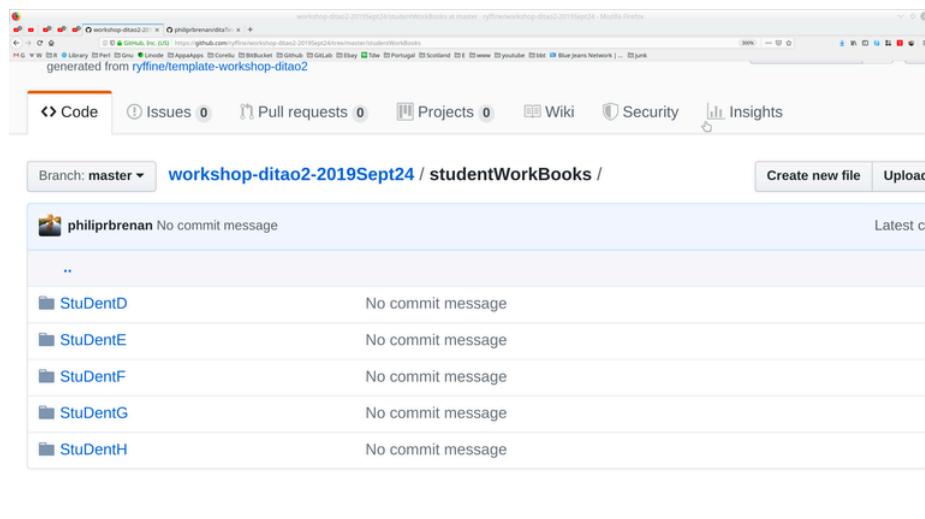
**Figure 2: The details of the students taking the course.**

3. The repository contains a template **folder** which describes the layout of each students work area. Phil has written a Perl program that copies this template **folder** into each student's work area.



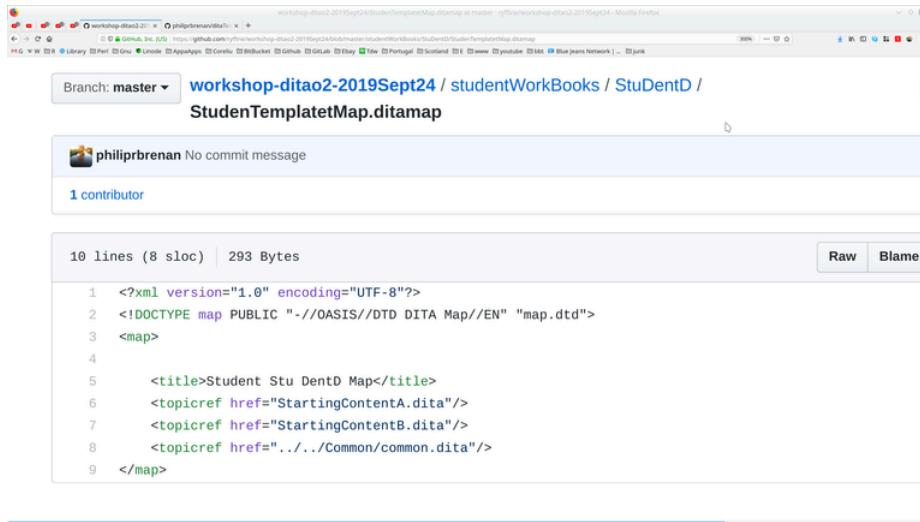
**Figure 3: Template folder to copy to each student.**

4. The Workshop repository showing the student work books - that is - the documents that each student will modify during the course.



**Figure 4: Student work books.**

5. Each of the student's book maps can be personalized.



The screenshot shows a GitHub repository page for 'workshop-ditao2-2019Sept24 / studentWorkBooks / StuDentD / StudenTemplateMap ditamap'. The branch is 'master'. The file 'StudenTemplateMap ditamap' contains the following XML code:

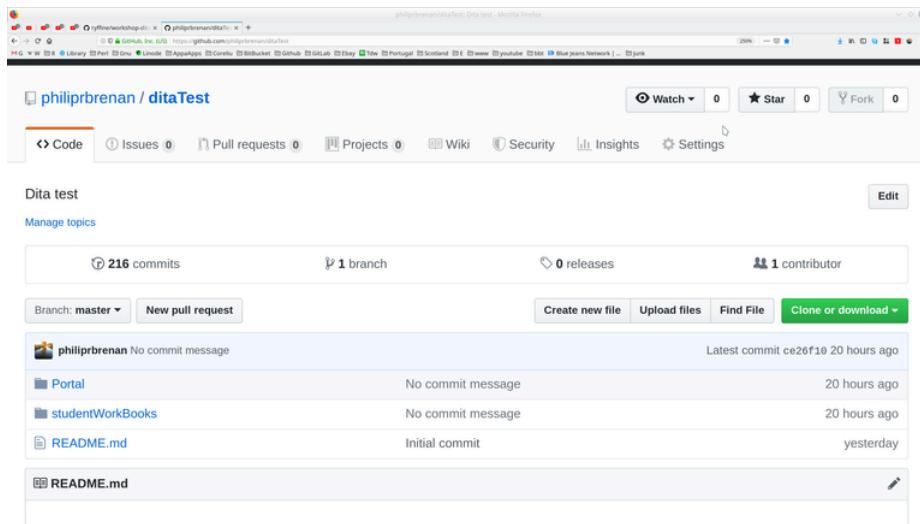
```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE map PUBLIC "-//OASIS//DTD DITA Map//EN" "map.dtd">
<map>
<title>Student Stu DentD Map</title>
<topicref href="StartingContentA.dita"/>
<topicref href="StartingContentB.dita"/>
<topicref href=".../Common/common.dita"/>
</map>

```

**Figure 5: Personalized Student map.**

6. Phil has created a [GitHub](#) repository with a copy of the Student's work files. A working repository is a good idea because it stops the students inadvertently damaging our master copy as held in Teresa's repo.



The screenshot shows a GitHub repository page for 'philiprbrenan / ditaTest'. The repository has 216 commits, 1 branch, 0 releases, and 1 contributor. The 'Code' tab is selected. The repository structure includes 'Portal', 'studentWorkBooks', and 'README.md'. The 'README.md' file content is:

```

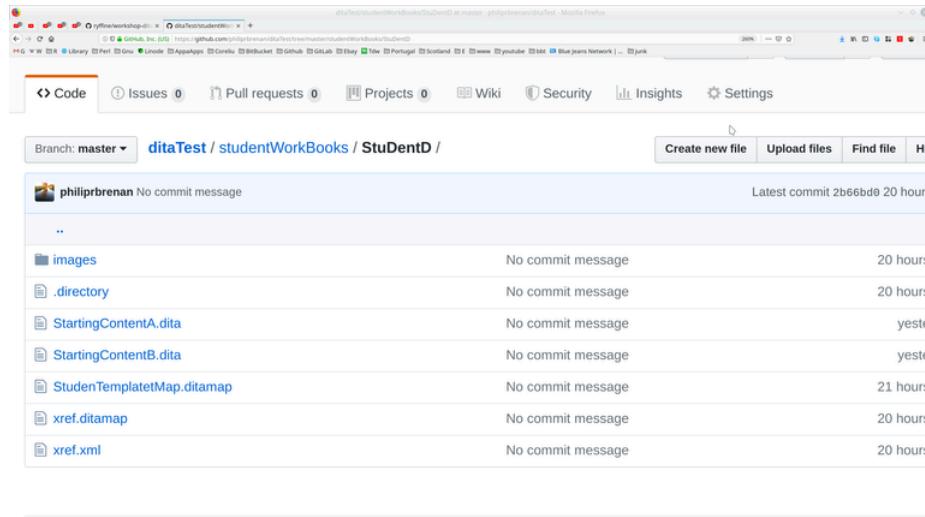
# README.md

```

**Figure 6: Phil's version of Teresa's workshop repo.**

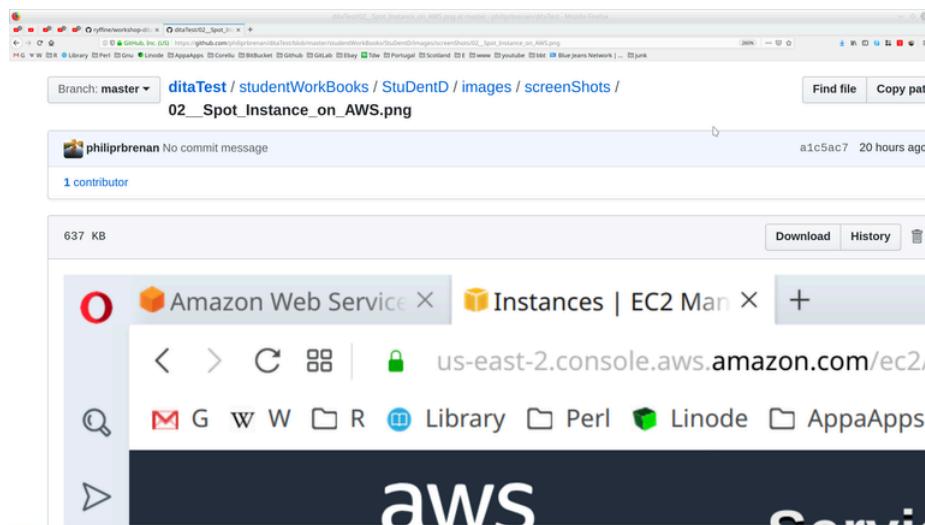
7. Phil's version of the repo also holds a copy of the source for the document: "Self Service Xref and Publish". This document is written as a [Dita Task](#). We have access to an excellent example of a [Dita Concept](#) in the [GB Standard](#).

which I believe Bill has written up. It would not be difficult to format a reference topic from [Data::Edit::Xml](#). These documents, if worked up a little further, would make useful examples of the major [Dita](#) topic formats.



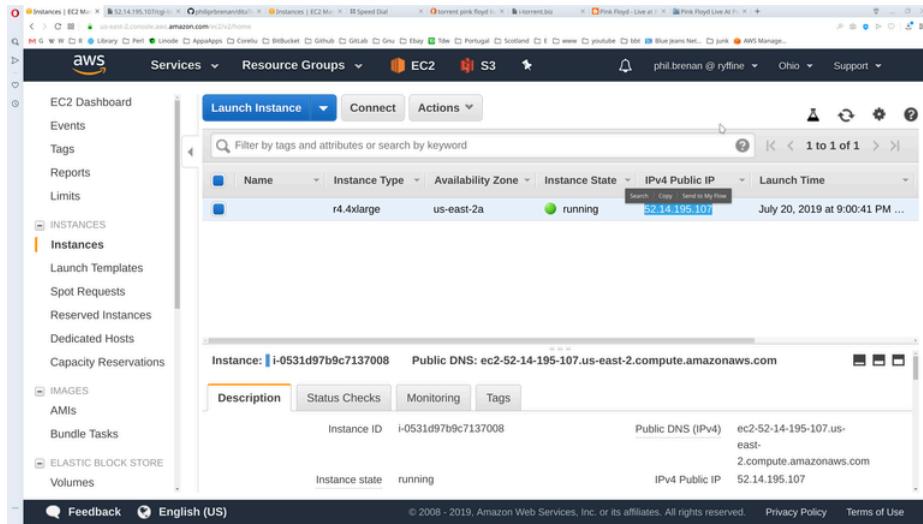
**Figure 7: Phil's version of Teresa's workshop repo showing addition of Xref.xml**

8. Each student gets a complete copy of the document "Self Service Xref and Publish". Lets see what happens if we run [Data::Edit::Xml::Xref](#) against these files.



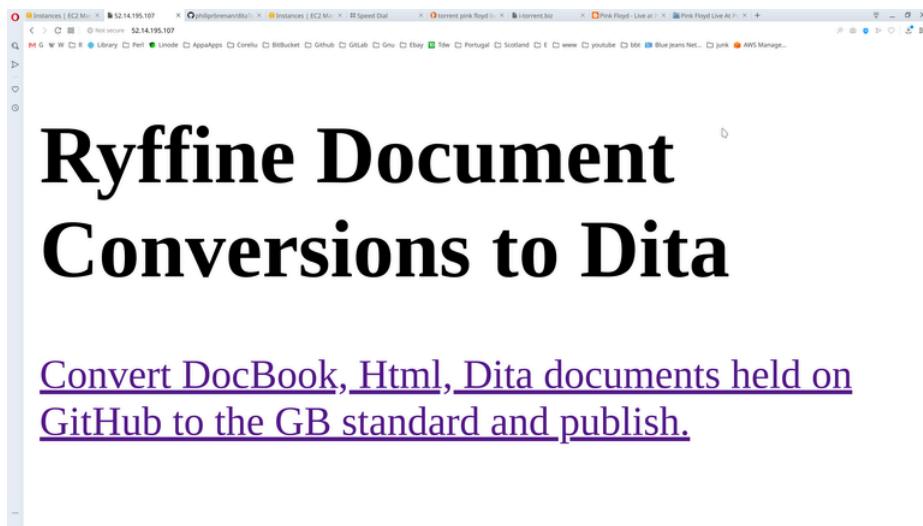
**Figure 8: Phil's version of Teresa's workshop repo showing a screenshot in the student's work area.**

9. First we start a spot instance of the right size on AWS and make a copy of its IP address.



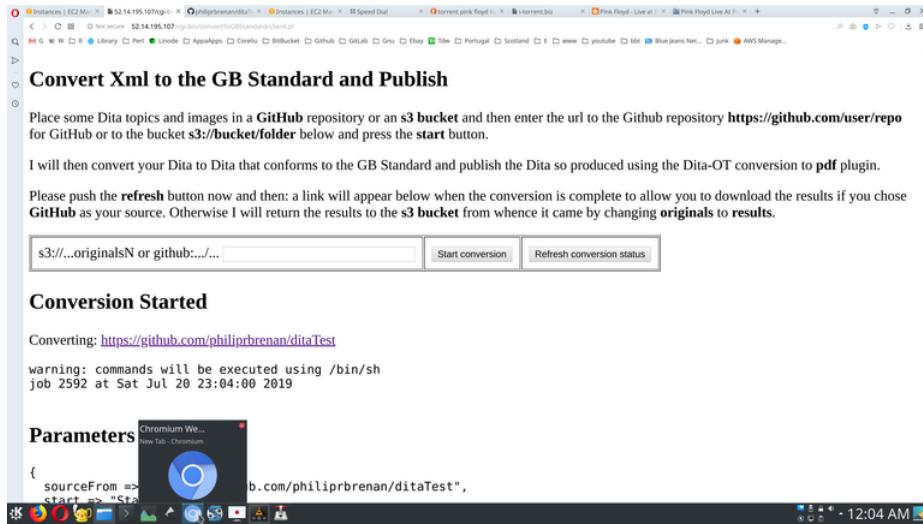
**Figure 9: Get the IP address of the spot instance.**

10. We enter the [IP address](#) into any browser to reach the web server embedded in the spot instance and navigate to the page where we can enter the [url](#) of the GitHub repository we wish to [Data::Edit::Xml::Xref](#).



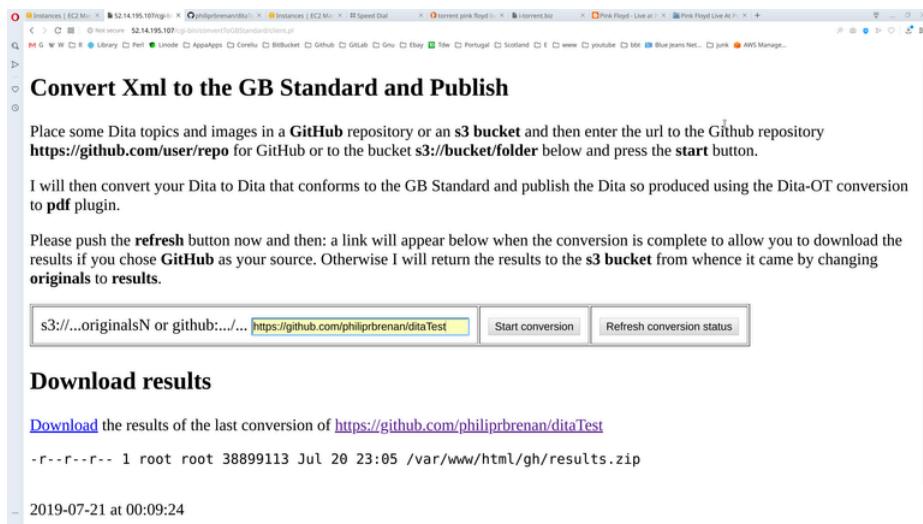
**Figure 10: Spot instance web server home page.**

11. Once we have entered the url of our [GitHub](#) repository we can press the **start** button to start the conversion.



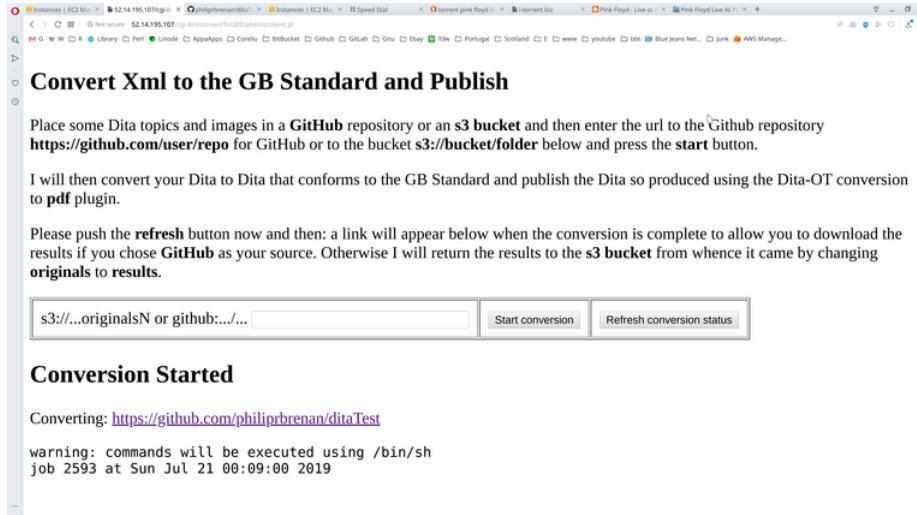
**Figure 11:** Ready to Enter GitHub repo name into web site.

12. As you an see, [Data::Edit::Xml::Xref](#) is ready to run.



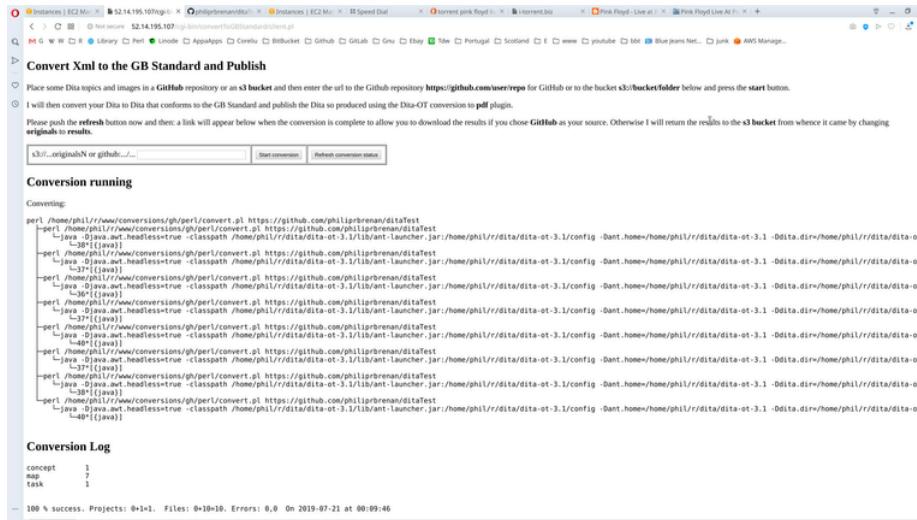
**Figure 12:** Web site with repo entered and ready to start.

13. When the conversion starts it displays the current processing status of the conversion via a log of the actions performed and by the process status.



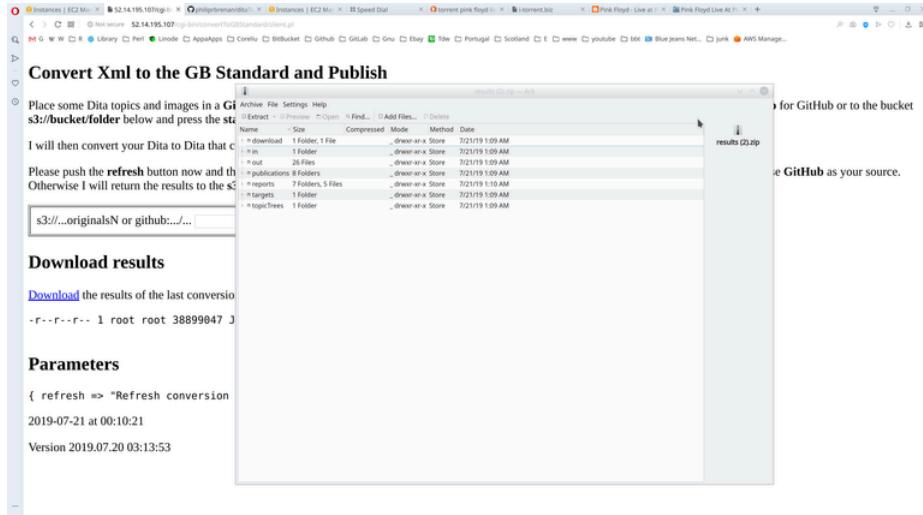
**Figure 13: Conversion started.**

14. Press the Refresh button to see the latest conversion status.



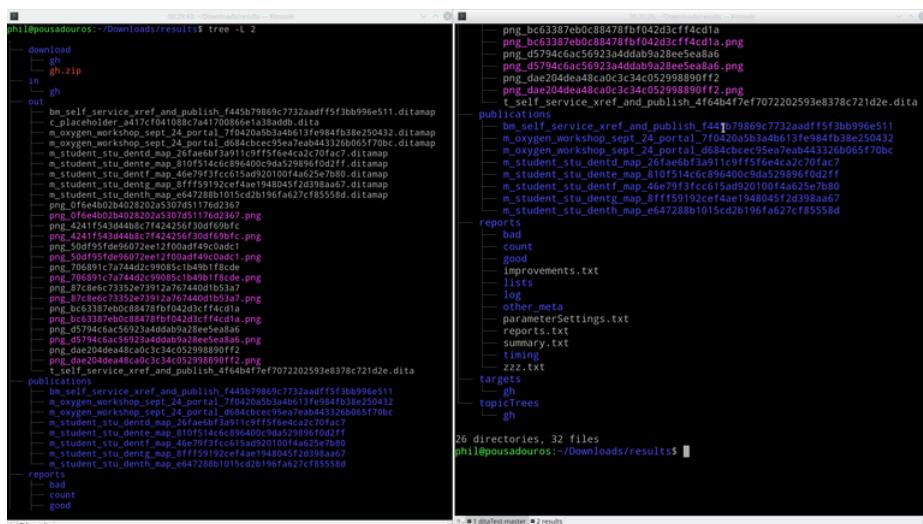
**Figure 14: Conversion running.**

15. When the conversion has completed the results are zipped into a file which can be downloaded.



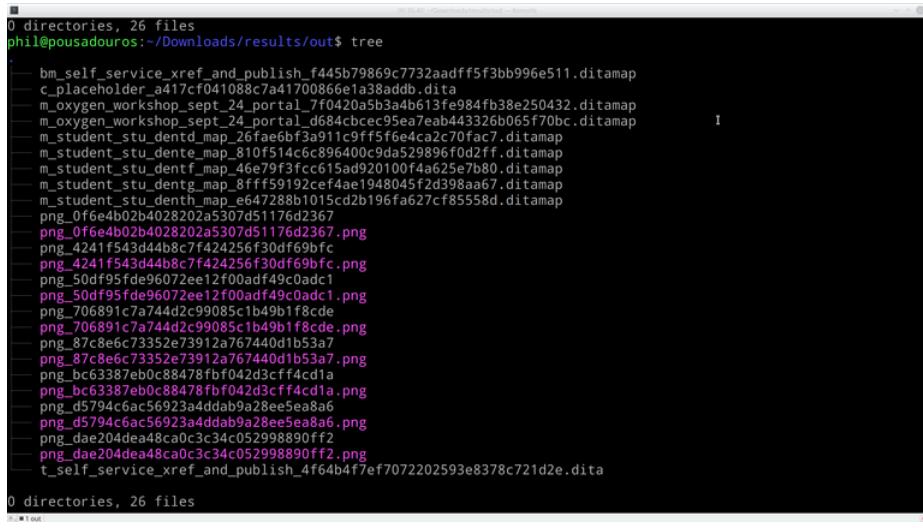
**Figure 15: Conversion results zip file.**

16. The results zip folder contains some well known folders.



**Figure 16: Overview of downloaded results zip file.**

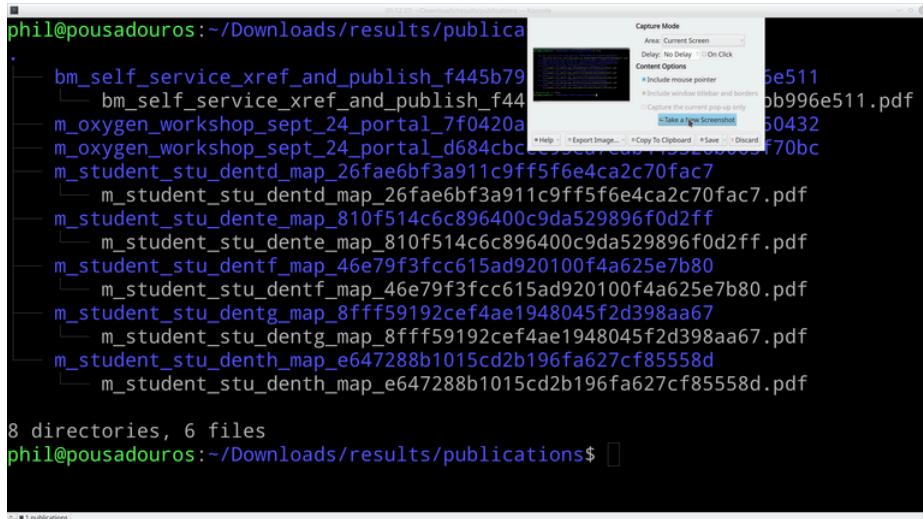
17. In particular the `out/` folder contains the results of flattening all the images and xml files. If, as in this case, the students have yet to make any changes, then a considerable amount of flattening is possible and as can be seen in this screenshot.



```
0 directories, 26 files
phil@pousadouros:~/Downloads/results/out$ tree
.
+- bm_self_service_xref_and_publish_f445b79869c7732aadff5f3bb996e511.ditamap
+- c_placeholder_a417cf041088c7841700866ea38adb.dita
+- m_oxygen_workshop_sept_24_portal_7f0420a5b3a4b613fe984fb38e250432.ditamap
+- m_oxygen_workshop_sept_24_portal_d684cbc95ea7eab43326b65f70bc.ditamap
+- m_student_stu_dentd_map_26fae6bf3a911c9ff5f6e4ca2c70fac7.ditamap
+- m_student_stu_dente_map_810f514c6c896400c9da529896f0d2ff.ditamap
+- m_student_stu_dentf_map_46e79f3fcc615ad920100f4a625e7b80.ditamap
+- m_student_stu_dentg_map_8ffff59192cef4ae1948045f2d398aa67.ditamap
+- m_student_stu_denth_map_e647288b1015cd2b196fa627cf85558d.ditamap
+- png_0f6e4b02b4028202a5307d51176d2367.png
+- png_0f6e4b02b4028202a5307d51176d2367.png
+- png_4241f543d44b8c7f424256f30df69bfc.png
+- png_4241f543d44b8c7f424256f30df69bfc.png
+- png_50df95fde96072ee12f00adf49c0adc1.png
+- png_50df95fde96072ee12f00adf49c0adc1.png
+- png_706891c7a744d2c99085c1b49b1f8cde.png
+- png_706891c7a744d2c99085c1b49b1f8cde.png
+- png_87c8e6c73352e73912a767440d1b53a7.png
+- png_87c8e6c73352e73912a767440d1b53a7.png
+- png_bc63387eb0c88478fb042d3cff4cd1a.png
+- png_bc63387eb0c88478fb042d3cff4cd1a.png
+- png_d5794c6ac56923a4ddab9a28ee5ea8a6.png
+- png_dae204dea48ca0c3c34c052998890ff2.png
+- png_dae204dea48ca0c3c34c052998890ff2.png
+- t_self_service_xref_and_publish_4f64b4f7ef7072202593e8378c721d2e.dita
0 directories, 26 files
```

**Figure 17: Flattened files in folder out/ of results zip file.**

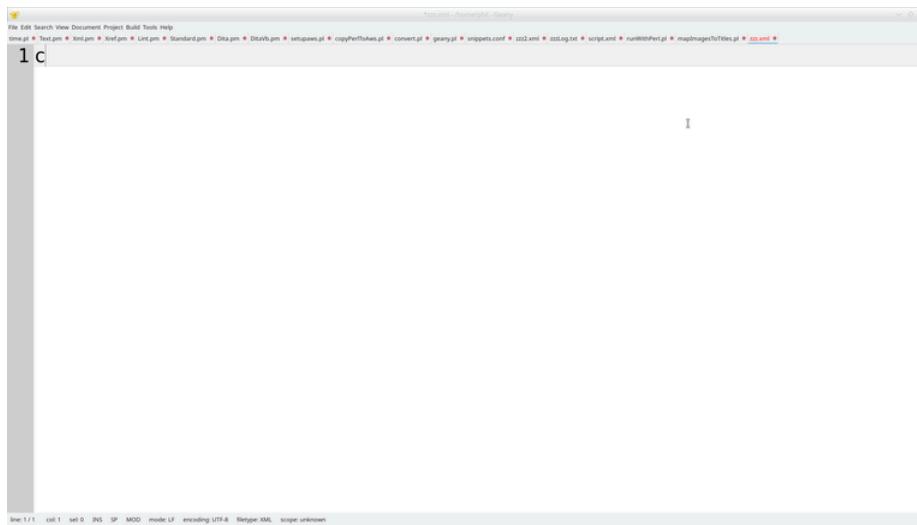
18. The publications /



```
phil@pousadouros:~/Downloads/results/publications
.
+- bm_self_service_xref_and_publish_f445b79
  +- bm_self_service_xref_and_publish_f44
+- m_oxygen_workshop_sept_24_portal_7f0420a
+- m_oxygen_workshop_sept_24_portal_d684cbc
+- m_student_stu_dentd_map_26fae6bf3a911c9ff5f6e4ca2c70fac7
  +- m_student_stu_dentd_map_26fae6bf3a911c9ff5f6e4ca2c70fac7.pdf
+- m_student_stu_dente_map_810f514c6c896400c9da529896f0d2ff
  +- m_student_stu_dente_map_810f514c6c896400c9da529896f0d2ff.pdf
+- m_student_stu_dentf_map_46e79f3fcc615ad920100f4a625e7b80
  +- m_student_stu_dentf_map_46e79f3fcc615ad920100f4a625e7b80.pdf
+- m_student_stu_dentg_map_8ffff59192cef4ae1948045f2d398aa67
  +- m_student_stu_dentg_map_8ffff59192cef4ae1948045f2d398aa67.pdf
+- m_student_stu_denth_map_e647288b1015cd2b196fa627cf85558d
  +- m_student_stu_denth_map_e647288b1015cd2b196fa627cf85558d.pdf
8 directories, 6 files
phil@pousadouros:~/Downloads/results/publications$
```

**Figure 18: Each map published as PDF**

- 19.** Now lets turn out attention to how we actually write Dita xml. Please create an empty file. Type the letter c for concept and press tab to get an empty concept.



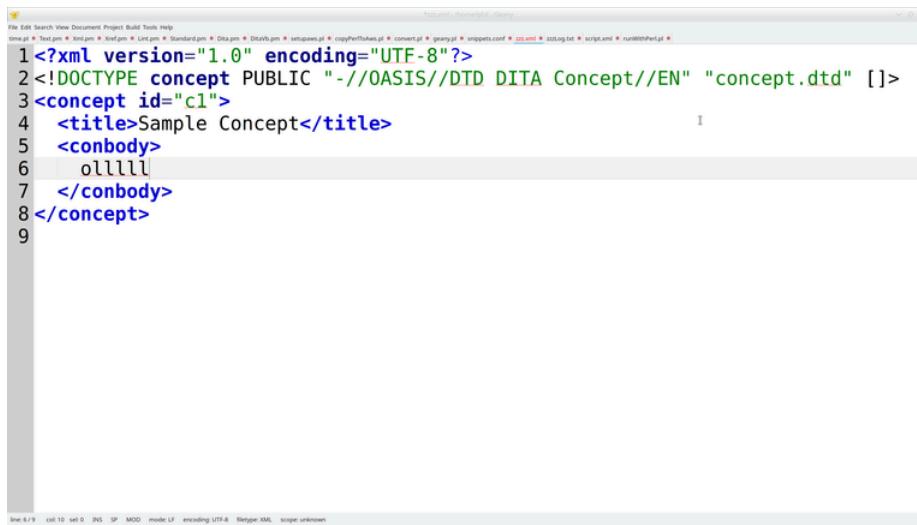
**Figure 19: Edit Xml - Create concept.**

- 20.** Fill in the title of the concept.



**Figure 20: Edit Xml - Add title.**

21. Use the same technique to create an ordered list. Type o11111 and press tab to create an ordered list with five items in it.



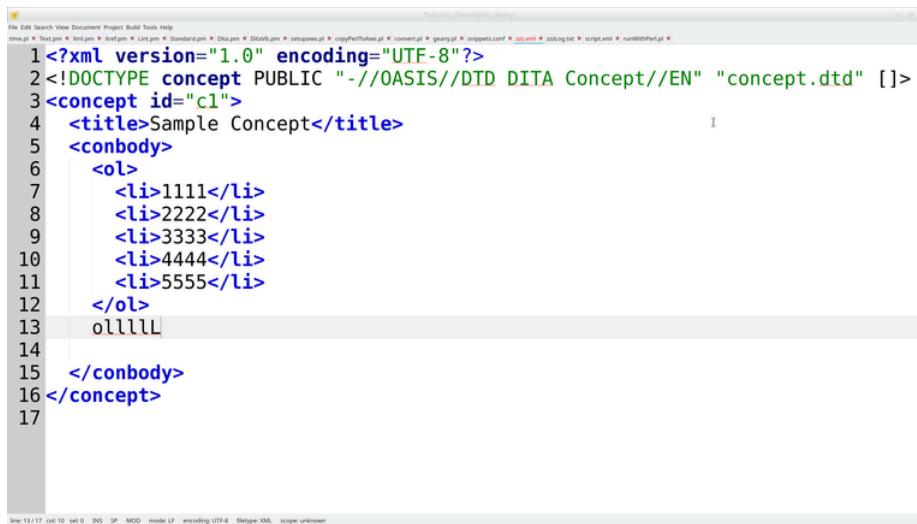
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     o11111
7   </conbody>
8 </concept>
9

```

**Figure 21: Edit Xml - Create first ol.**

22. Create a second similar ordered list using o111111.



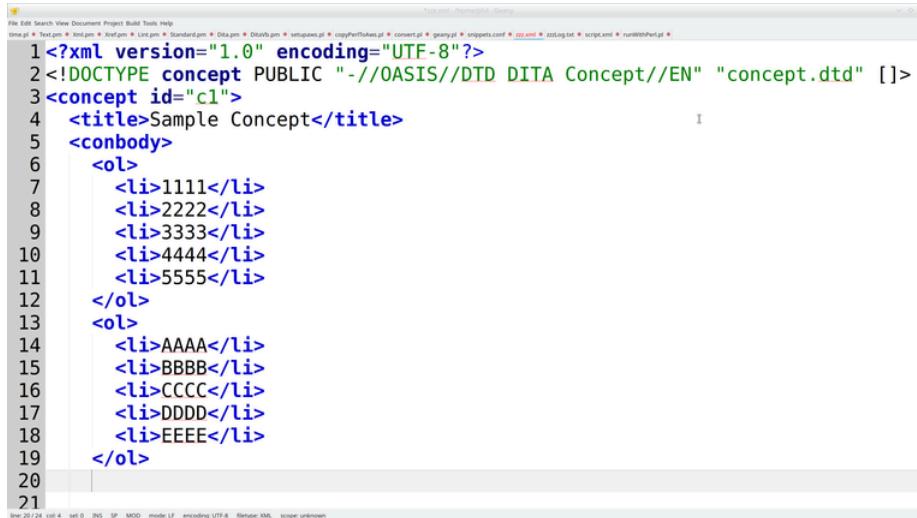
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <li>4444</li>
11      <li>5555</li>
12    </ol>
13    o1111111
14
15  </conbody>
16 </concept>
17

```

**Figure 22: Edit Xml - Create second ol.**

23. Now we have two lists and would like to merge them into one list.



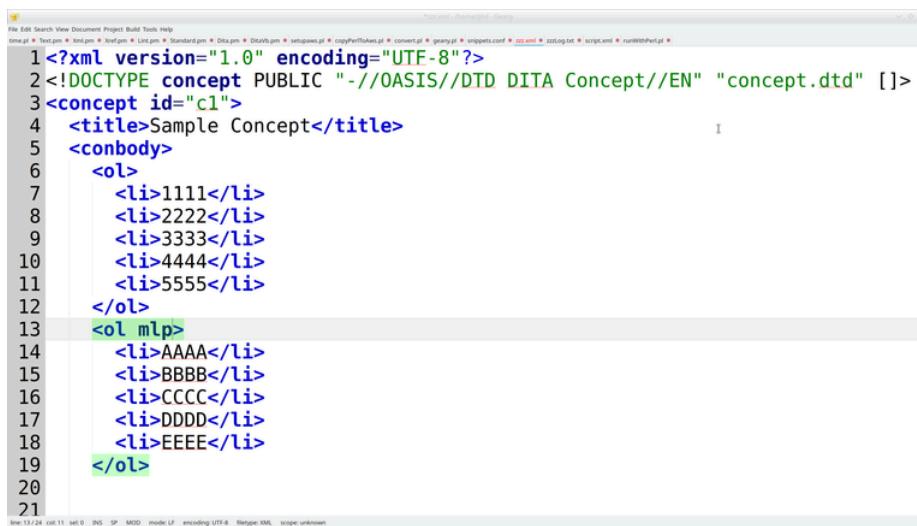
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <li>4444</li>
11      <li>5555</li>
12    </ol>
13    <ol>
14      <li>AAAA</li>
15      <li>BBBB</li>
16      <li>CCCC</li>
17      <li>DDDD</li>
18      <li>EEEE</li>
19    </ol>
20
21

```

**Figure 23: Edit Xml - Create second ol result.**

24. To perform an action on an xml node, type a function name from [Data::Edit::Xml](#) against the closing angle bracket and press **Execute**



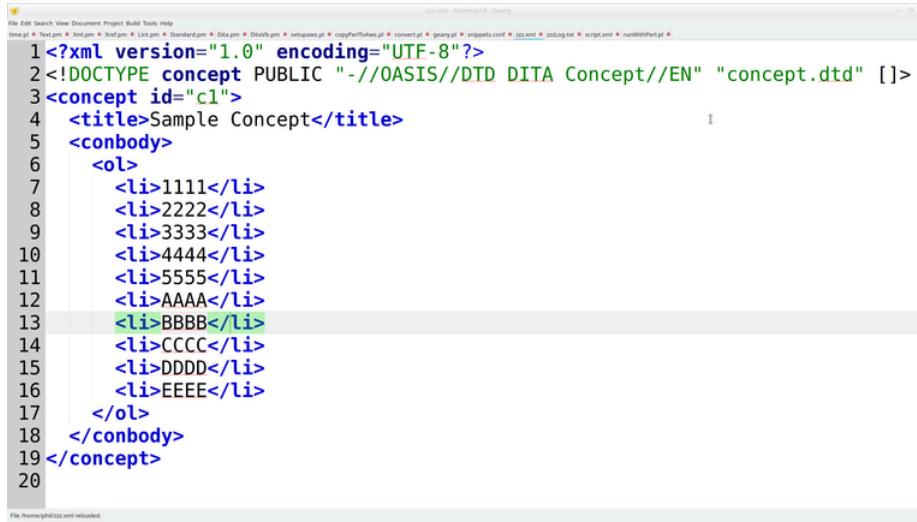
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <li>4444</li>
11      <li>5555</li>
12    </ol>
13    <ol mlp>
14      <li>AAAA</li>
15      <li>BBBB</li>
16      <li>CCCC</li>
17      <li>DDDD</li>
18      <li>EEEE</li>
19    </ol>
20
21

```

**Figure 24: Edit Xml - Start mlp.**

25. The two lists are merged into one.



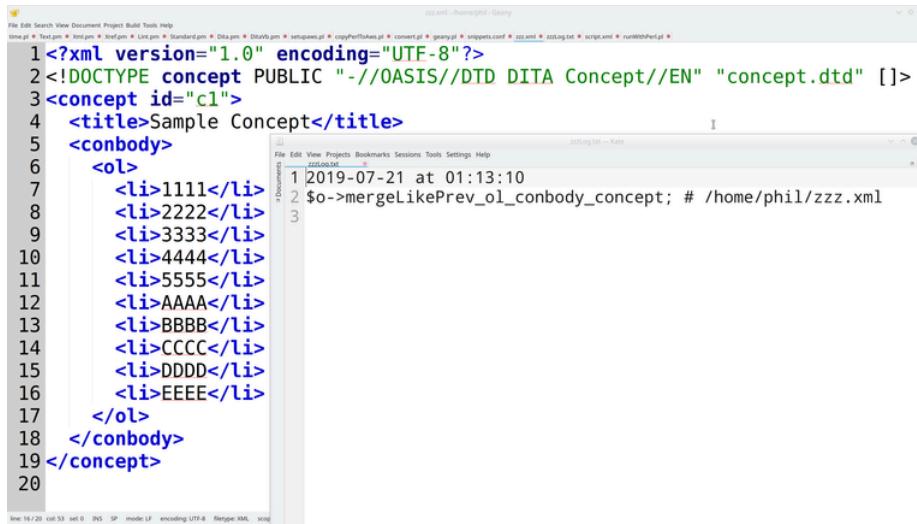
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <li>4444</li>
11      <li>5555</li>
12      <li>AAAA</li>
13      <li>BBBB</li>
14      <li>CCCC</li>
15      <li>DDDD</li>
16      <li>EEEE</li>
17    </ol>
18  </conbody>
19</concept>
20

```

**Figure 25: Edit Xml - Finish mlp.**

26. The actions performed are recorded in a log file whise data can be used to drive other processes.



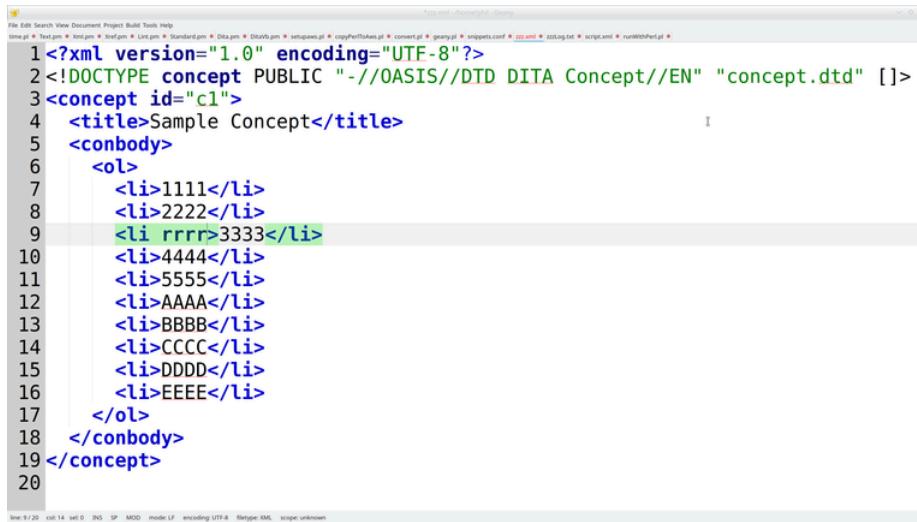
```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <li>4444</li>
11      <li>5555</li>
12      <li>AAAA</li>
13      <li>BBBB</li>
14      <li>CCCC</li>
15      <li>DDDD</li>
16      <li>EEEE</li>
17    </ol>
18  </conbody>
19</concept>
20

```

**Figure 26: Edit Xml - Finish mlp and show log.**

27. There are many other such actions available, such as **rrrr** which repeats a node 4 times.



```

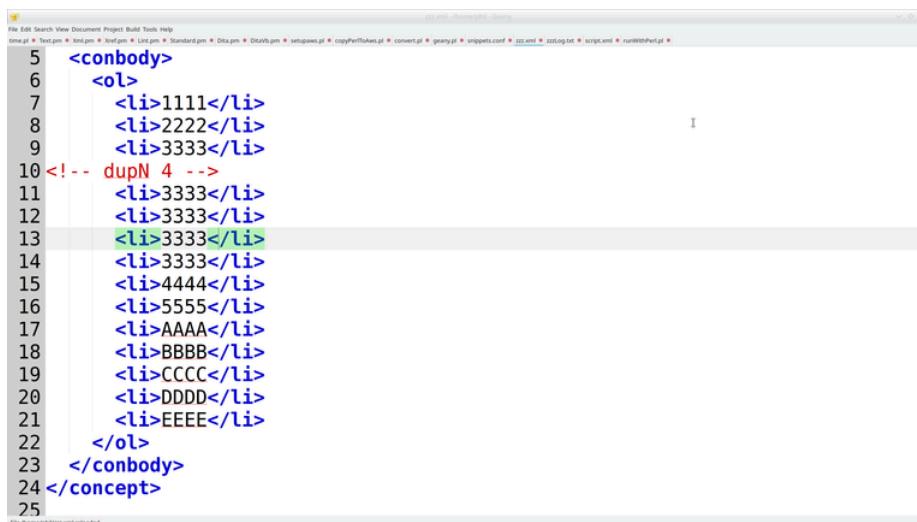
<?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li rrrr>3333</li>
10      <li>4444</li>
11      <li>5555</li>
12      <li>AAAA</li>
13      <li>BBBB</li>
14      <li>CCCC</li>
15      <li>DDDD</li>
16      <li>EEEE</li>
17    </ol>
18  </conbody>
19</concept>
20

```

The screenshot shows a Geany XML editor window. The code is an XML document with a root element 'concept'. Inside 'concept', there is a 'title' element with the value 'Sample Concept', a 'conbody' element, and an 'ol' element. The 'ol' element contains several 'li' elements. The 9th line contains an 'li' element with the value '3333' followed by the action 'rrrr', which repeats the node 4 times. The 10th line contains another 'li' element with the value '4444'. The 11th line contains an 'li' element with the value '5555'. The 12th line contains an 'li' element with the value 'AAAA'. The 13th line contains an 'li' element with the value 'BBBB'. The 14th line contains an 'li' element with the value 'CCCC'. The 15th line contains an 'li' element with the value 'DDDD'. The 16th line contains an 'li' element with the value 'EEEE'. The 17th line ends the 'ol' element. The 18th line ends the 'conbody' element. The 19th line ends the 'concept' element. The 20th line is a blank line.

**Figure 27: Edit Xml - Start repeat 4 times.**

28. The results of repeating a node 4 times. If you start to type an action code, Geany will prompt you with the possibilities.



```

<?xml version="1.0" encoding="UTF-8"?>
5 <conbody>
6   <ol>
7     <li>1111</li>
8     <li>2222</li>
9     <li>3333</li>
10    <!-- dupN 4 -->
11    <li>3333</li>
12    <li>3333</li>
13    <li>3333</li>
14    <li>3333</li>
15    <li>4444</li>
16    <li>5555</li>
17    <li>AAAA</li>
18    <li>BBBB</li>
19    <li>CCCC</li>
20    <li>DDDD</li>
21    <li>EEEE</li>
22  </ol>
23</conbody>
24</concept>
25

```

The screenshot shows a Geany XML editor window. The code is identical to Figure 27, but includes a comment '!-- dupN 4 -->' on line 10. This comment is followed by four additional 'li' elements with the value '3333', corresponding to the 'rrrr' action from line 9. The rest of the code follows the same structure as Figure 27.

**Figure 28: Edit Xml - Repeat 4 times results.**

29. You can also select one or a range of nodes by marking them with ss for start selecyion and se for selection end.



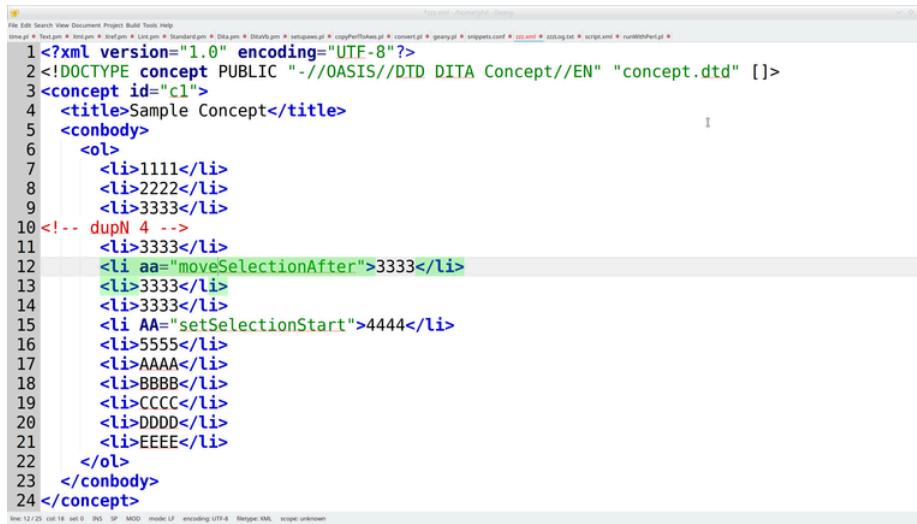
```

File Edit Search View Document Project Build Tools Help
line 15 / 25 col 12 set 0 INS SP MOD mode LF encoding UTF-8 filetype XML scope unknown
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <!-- dupN 4 -->
11      <li>3333</li>
12      <li>3333</li>
13      <li>3333</li>
14      <li>3333</li>
15      <li ss>4444</li>
16      <li>5555</li>
17      <li>AAAA</li>
18      <li>BBBB</li>
19      <li>CCCC</li>
20      <li>DDDD</li>
21      <li>EEEE</li>
22    </ol>
23  </conbody>
24 </concept>

```

**Figure 29: Edit Xml - Set selection start.**

30. Once a selection has been made you can move the selection after ma or before mb another node.



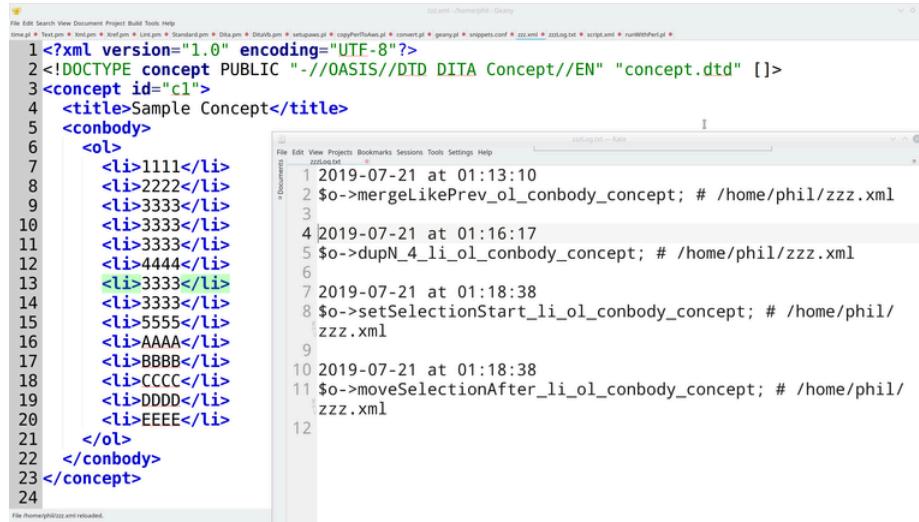
```

File Edit Search View Document Project Build Tools Help
line 12 / 25 col 18 set 0 INS SP MOD mode LF encoding UTF-8 filetype XML scope unknown
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1">
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <!-- dupN 4 -->
11      <li>3333</li>
12      <li aa="moveSelectionAfter">3333</li>
13      <li>3333</li>
14      <li>3333</li>
15      <li AA="setSelectionStart">4444</li>
16      <li>5555</li>
17      <li>AAAA</li>
18      <li>BBBB</li>
19      <li>CCCC</li>
20      <li>DDDD</li>
21      <li>EEEE</li>
22    </ol>
23  </conbody>
24 </concept>

```

**Figure 30: Edit Xml - Move selection after tag results.**

**31.** The results of performing a move after on the selected nodes.



```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
<concept id="c1">
  <title>Sample Concept</title>
  <conbody>
    <ol>
      <li>1111</li>
      <li>2222</li>
      <li>3333</li>
      <li>3333</li>
      <li>3333</li>
      <li>4444</li>
      <li>3333</li>
      <li>3333</li>
      <li>5555</li>
      <li>AAAA</li>
      <li>BBBB</li>
      <li>CCCC</li>
      <li>DDDD</li>
      <li>EEEE</li>
    </ol>
  </conbody>
</concept>

```

File /home/phil/zzz.xml reloaded.

zzzLog.txt

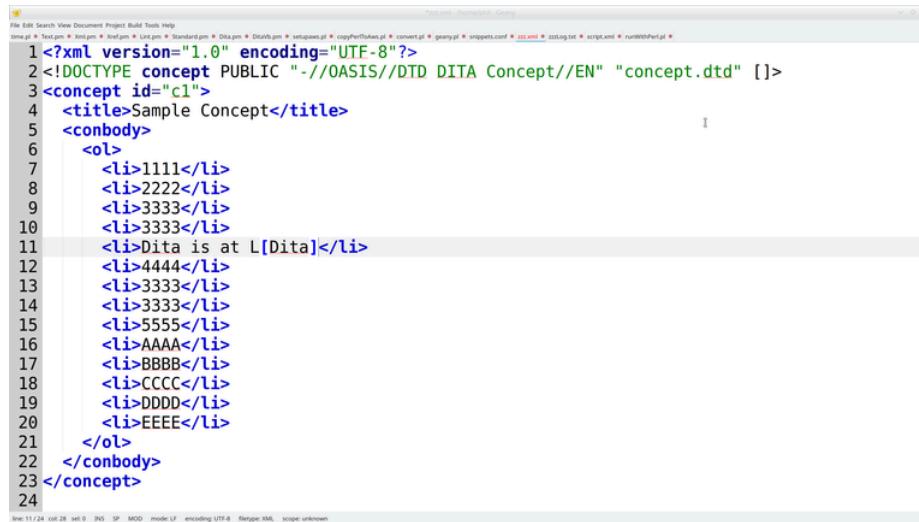
```

1 2019-07-21 at 01:13:10
2 $o->mergeLikePrev_ol_conbody_concept; # /home/phil/zzz.xml
3
4 2019-07-21 at 01:16:17
5 $o->dupN_4_li_ol_conbody_concept; # /home/phil/zzz.xml
6
7 2019-07-21 at 01:18:38
8 $o->setSelectionStart_li_ol_conbody_concept; # /home/phil/
  zzz.xml
9
10 2019-07-21 at 01:18:38
11 $o->moveSelectionAfter_li_ol_conbody_concept; # /home/phil/
  zzz.xml
12
13
14
15
16
17
18
19
20
21
22
23
24

```

**Figure 31: Edit Xml - Selection moved with log.**

**32.** It is easy to expand links to well known urls. Simply type L[shortname] and press **Execute**.



```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
<concept id="c1">
  <title>Sample Concept</title>
  <conbody>
    <ol>
      <li>1111</li>
      <li>2222</li>
      <li>3333</li>
      <li>3333</li>
      <li>Dita is at L[Dita]</li>
      <li>4444</li>
      <li>3333</li>
      <li>3333</li>
      <li>5555</li>
      <li>AAAA</li>
      <li>BBBB</li>
      <li>CCCC</li>
      <li>DDDD</li>
      <li>EEEE</li>
    </ol>
  </conbody>
</concept>

```

line 11/24 col 28 set 0 INS SP MOD mode LF encoding:UTF-8 filetype:XML scope:unknown

**Figure 32: Edit Xml - Ready to expand a link.**

33. **Data::Edit::Xml** contains many useful functions that can be placed against nodes to transform them. For instance to convert a **Dita Concept** to a **Dita Task** ct against the closing angle bracket of the **Dita Concept** and press **Execute**.

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE concept PUBLIC "-//OASIS//DTD DITA Concept//EN" "concept.dtd" []>
3 <concept id="c1" ct>
4   <title>Sample Concept</title>
5   <conbody>
6     <ol>
7       <li>1111</li>
8       <li>2222</li>
9       <li>3333</li>
10      <li>3333</li>
11      <li>Dita is at
12        <xref format="html"
13          href="http://docs.oasis-open.org/dita/dita/v1.3/os/part2-tech-content/dita-v1.3-
14          scope="external">Dita
15        </xref>
16      </li>
17      <li>4444</li>
18      <li>3333</li>
19      <li>3333</li>
20      <li>5555</li>
21      <li>AAAA</li>
22      <li>BBBB</li>
23      <li>CCCC</li>
24      <li>DDDD</li>

```

**Figure 33: Edit Xml - Link expanded. Start conversion to task.**

34. Using the programmed capabilities in **Data::Edit::Xml** saves a lot of manual labor. **Ryffine** will be pleased to add similar capabilities to assist you in your work.

```

1 <?xml version="1.0" encoding="UTF-8"?>
2 <!DOCTYPE task PUBLIC "-//OASIS//DTD DITA Task//EN" "task.dtd" []>
3 <task id="c1">
4   <title>Sample Concept</title>
5   <taskbody>
6     <context>
7       <steps>
8         <step>
9           <cmd>1111</cmd>
10        </step>
11        <step>
12          <cmd>2222</cmd>
13        </step>
14        <step>
15          <cmd>3333</cmd>
16        </step>
17        <step>
18          <cmd>3333</cmd>
19        </step>
20        <step>
21          <cmd>Dita is at
22            <xref format="html"
23              href="http://docs.oasis-open.org/dita/dita/v1.3/os/part2-tech-content/dita-v1.3-
24              scope="external">Dita
25            </xref>
26          </cmd>
27        </step>
28        <step>
29          <cmd>4444</cmd>
30        </step>
31        <step>
32          <cmd>3333</cmd>
33        </step>
34        <step>
35          <cmd>3333</cmd>
36        </step>
37      </steps>

```

**Figure 34: Edit Xml - Concept converted to task with log showing.**

**35.** Another such example is `cx` which creates a report showing the numerosity of each type of tag under the specified node.

```
File Edit Search Document Project Build Tools Help
item.pl * Text.pl * Xhtml.pl * Xhtml.pm * Xliff.pm * Standard.pm * Data.pm * DataVb.pm * Xslproc.pl * copyPerlInXsls.pl * convert.pl * gnarly.pl * snippets.conf * 2023.xls * 2023log.txt * script.xml * runWithperl.pl *
1<xml version="1.0" encoding="UTF-8">
2<!DOCTYPE task PUBLIC "-//OASIS//DTD DITA Task//EN" "task.dtd" []>
3<task id="c1">
4  <title>Sample Concept</title>
5  <taskbody>
6    <context/>
7    <step cmd="c1">
8      <step>
9        <cmd>1111</cmd>
10     </step>
11     <step>
12       <cmd>2222</cmd>
13     </step>
14     <step>
15       <cmd>3333</cmd>
16     </step>
17     <step>
18       <cmd>3333</cmd>
19     </step>
20     <step>
21       <cmd>Dita is at
22     </cmd>
23     <info>
24       <xref format="html" href="http://docs.oasis-open.org/dita/dita/v1.3/os/part2-tech-content/dita-v1.3-os-part2-tech-content.html">
25     </xref>
26   </info>
27 </step>
28     <step>
29       <cmd>4444</cmd>
30     </step>
31     <step>
32       <cmd>3333</cmd>
33     </step>
34     <step>
35       <cmd>3333</cmd>
36     </step>
37   <step>
```

**Figure 35: Edit Xml - Count tags report start.**

**36.** The tag count report shows up in the log after you have hit **Execute**.

The screenshot shows a Java-based IDE interface. On the left, there is a code editor with an XML file named 'zzz.xml'. The XML content includes various DITA elements like <title>, <task>, <taskbody>, <context>, <steps>, <xref>, and <cmd>. Lines 15 through 28 are highlighted in yellow, indicating a selection or search result. On the right, a separate window titled 'zzz.xml.txt --- Kate' displays a list of search results, each consisting of a line number, a tag name, and a count. The results are as follows:

Line	Tag	Count
15		1
16		1
17	\$o->countReport_steps_taskbody_task;	1
18		1
19		1
20	Tag	Count
21	1	15
22	2	14
23	3	1
24	4	14
25	5	1
26	6	1
27		
28		

Below the results, there is a 'Find' dialog box with fields for 'Find' (containing 'xref'), 'Replace' (empty), 'Mode: Plain text', and a 'Search and replace' checkbox.

**Figure 36: Edit Xml - Tags count report in log file.**

37. As a final illustration, try using ck to change the tags of the immediate children of a specified node.



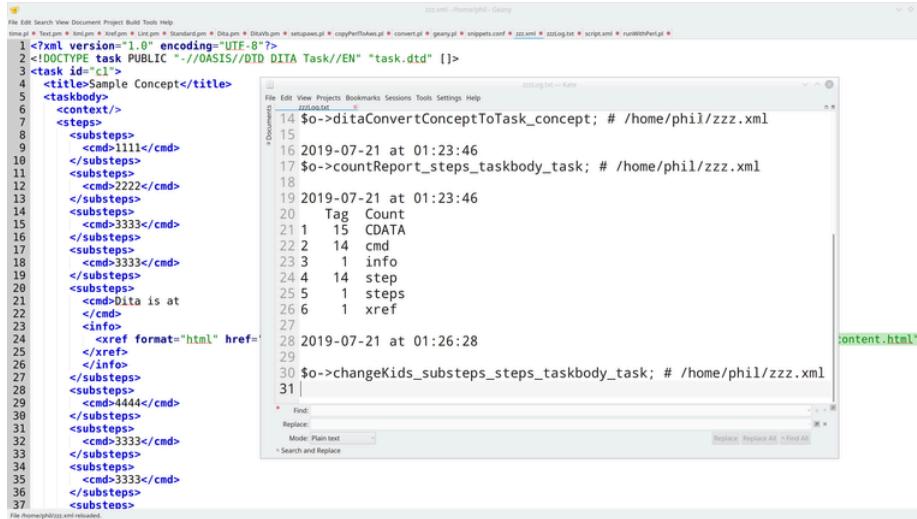
```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE task PUBLIC "-//OASIS//DTD DITA Task//EN" "task.dtd" []>
<task id="cl">
  <title>Sample Concept</title>
  <taskbody>
    <context/>
    <steps ck_substeps>
      <step>
        <cmd>1111</cmd>
      </step>
      <step>
        <cmd>2222</cmd>
      </step>
      <step>
        <cmd>3333</cmd>
      </step>
      <step>
        <cmd>3333</cmd>
      </step>
      <step>
        <cmd>Dita is at
        </cmd>
        <info>
          <xref format="html" href="http://docs.oasis-open.org/dita/dita/v1.3/os/part2-tech-content/dita-v1.3-os-part2-tech-content.html">
            </xref>
          </info>
        </step>
        <step>
          <cmd>4444</cmd>
        </step>
        <step>
          <cmd>3333</cmd>
        </step>
        <step>
          <cmd>3333</cmd>
        </step>
      </steps>
    </taskbody>
  </task>

```

**Figure 37: Edit Xml - Change kids start.**

38. There again, perhaps not. Just apply **undo** to remove the unwanted changes.



```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE task PUBLIC "-//OASIS//DTD DITA Task//EN" "task.dtd" []>
<task id="cl">
  <title>Sample Concept</title>
  <taskbody>
    <context/>
    <steps>
      <substeps>
        <cmd>1111</cmd>
      </substeps>
      <substeps>
        <cmd>2222</cmd>
      </substeps>
      <substeps>
        <cmd>3333</cmd>
      </substeps>
      <substeps>
        <cmd>3333</cmd>
      </substeps>
      <substeps>
        <cmd>Dita is at
        </cmd>
        <info>
          <xref format="html" href="http://docs.oasis-open.org/dita/dita/v1.3/os/part2-tech-content/dita-v1.3-os-part2-tech-content.html">
            </xref>
          </info>
        </substeps>
        <substeps>
          <cmd>4444</cmd>
        </substeps>
        <substeps>
          <cmd>3333</cmd>
        </substeps>
        <substeps>
          <cmd>3333</cmd>
        </substeps>
      </steps>
    </taskbody>
  </task>

```

**Figure 38: Edit Xml - Change kids end.**

### 39. To validate your Xml press F8.

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE task PUBLIC "-//OASIS//DTD DITA Task//EN" "task.dtd" []>
<task id="cl">
  <title>Sample Concept</title>
  <context/>
  <steps>
    <step>
      <cmd>1111</cmd>
    </step>
    <step>
      <cmd>2222</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
    <step>
      <cmd>Dita is at
      </cmd>
    </step>
    <step>
      <info>
        <xref format="html" href="http://docs.oasis-open.org/dita/dita/v1.3/o:>
      </xref>
      </info>
    </step>
    <step>
      <cmd>4444</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
  </steps>
</task>

```

**Figure 39: Edit Xml - Validation error in Xml**

### 40. To publish your XML as PDF press F9.

```

<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE task PUBLIC "-//OASIS//DTD DITA Task//EN" "task.dtd" []>
<task id="cl">
  <title>Sample Concept</title>
  <context/>
  <steps>
    <step>
      <cmd>1111</cmd>
    </step>
    <step>
      <cmd>2222</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
    <step>
      <cmd>Dita is at
      </cmd>
    </step>
    <step>
      <info>
        <xref format="html" href="http://docs.oasis-open.org/dita/dita/v1.3/o:>
      </xref>
      </info>
    </step>
    <step>
      <cmd>4444</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
    <step>
      <cmd>3333</cmd>
    </step>
  </steps>
</task>

```

Sample Concept

1. 1111  
2. 2222  
3. 3333  
4. 3333  
5. Dita is at  
6. 4444  
7. 3333  
8. 3333  
9. 5555  
10. AAAA  
11. 00000  
12. 00000  
13. 00000

**Figure 40: Edit Xml - Publish to PDF.**