



TinyXml In Practice

Keep It Small and Simple

Setup Environment

&

Write Your First Application

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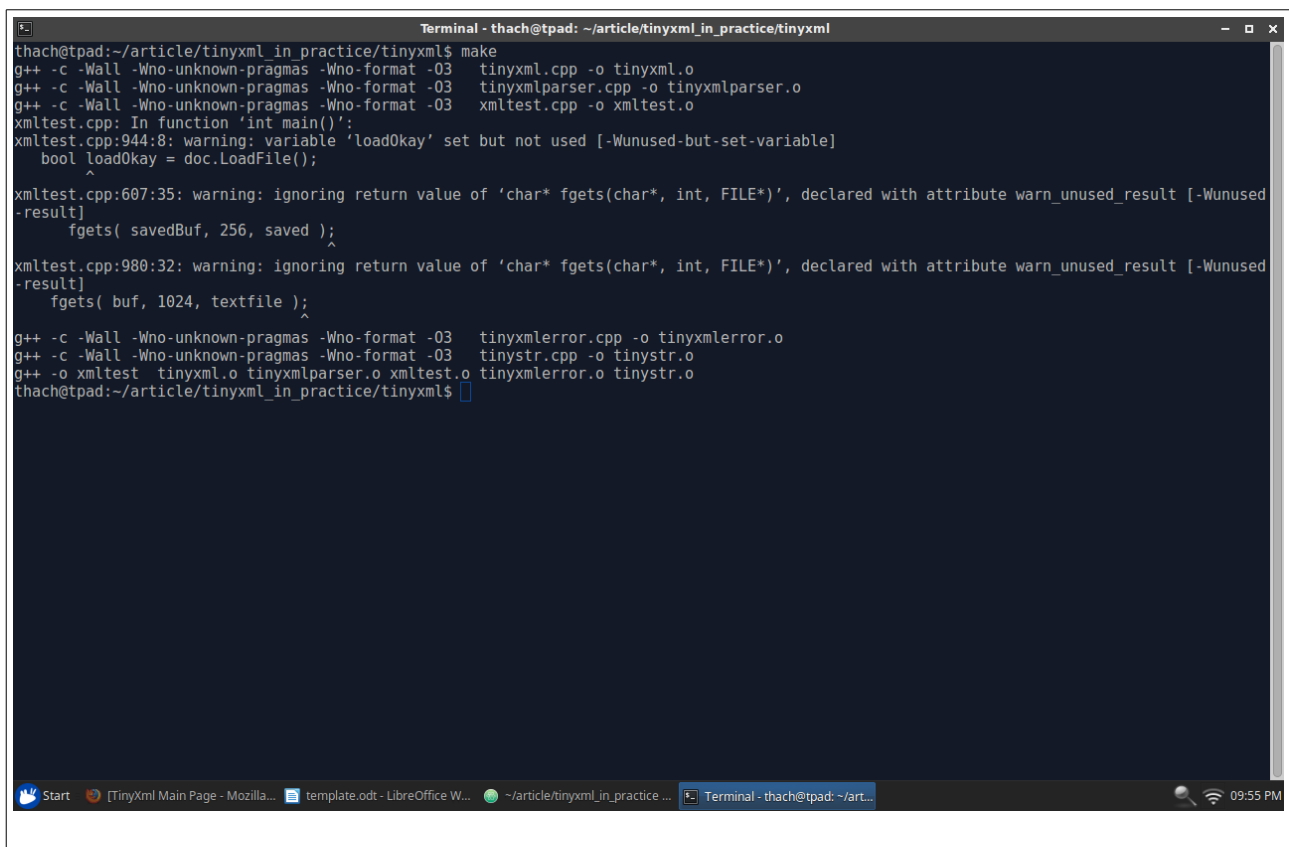
Setup Environment

Download and extract

```
http://www.grinninglizard.com/tinyxml/
```

Build

```
make
```



```
Terminal - thach@tpad: ~/article/tinyxml_in_practice/tinyxml
thach@tpad:~/article/tinyxml_in_practice/tinyxml$ make
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3    tinyxml.cpp -o tinyxml.o
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3    tinyxmlparser.cpp -o tinyxmlparser.o
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3    xmltest.cpp -o xmltest.o
xmltest.cpp: In function 'int main()':
xmltest.cpp:944:8: warning: variable 'loadOkay' set but not used [-Wunused-but-set-variable]
    bool loadOkay = doc.LoadFile();
        ^
xmltest.cpp:607:35: warning: ignoring return value of 'char* fgets(char*, int, FILE*)', declared with attribute warn_unused_result [-Wunused-result]
    fgets( savedBuf, 256, saved );
    ^
xmltest.cpp:980:32: warning: ignoring return value of 'char* fgets(char*, int, FILE*)', declared with attribute warn_unused_result [-Wunused-result]
    fgets( buf, 1024, textfile );
    ^
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3    tinyxmlerror.cpp -o tinyxmlerror.o
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3    tinystl.cpp -o tinystl.o
g++ -o xmltest    tinyxml.o tinyxmlparser.o xmltest.o tinyxmlerror.o tinystl.o
thach@tpad:~/article/tinyxml_in_practice/tinyxml$
```

Run demo

```
./xmltest
```

```
Terminal - thach@tpad: ~/article/tinyxml_in_practice/tinyxml
thach@tpad:~/article/tinyxml_in_practice/tinyxml$ ./xmltest
** Demo doc read from disk: **

** Printing via doc.Print **
<?xml version="1.0" standalone="no" ?>
<!-- Our to do list data -->
<ToDo>
  <!-- Do I need a secure PDA? -->
  <Item priority="1" distance="close">Go to the
    <b>Toy store!</b>
  </Item>
  <Item priority="2" distance="none">Do bills</Item>
  <Item priority="2" distance="far & back">Look for Evil Dinosaurs!</Item>
</ToDo>
** Printing via TiXmlPrinter **
<?xml version="1.0" standalone="no" ?>
<!-- Our to do list data -->
<ToDo>
  <!-- Do I need a secure PDA? -->
  <Item priority="1" distance="close">
    Go to the
    <b>Toy store!</b>
  </Item>
  <Item priority="2" distance="none">Do bills</Item>
  <Item priority="2" distance="far & back">Look for Evil Dinosaurs!</Item>
</ToDo>

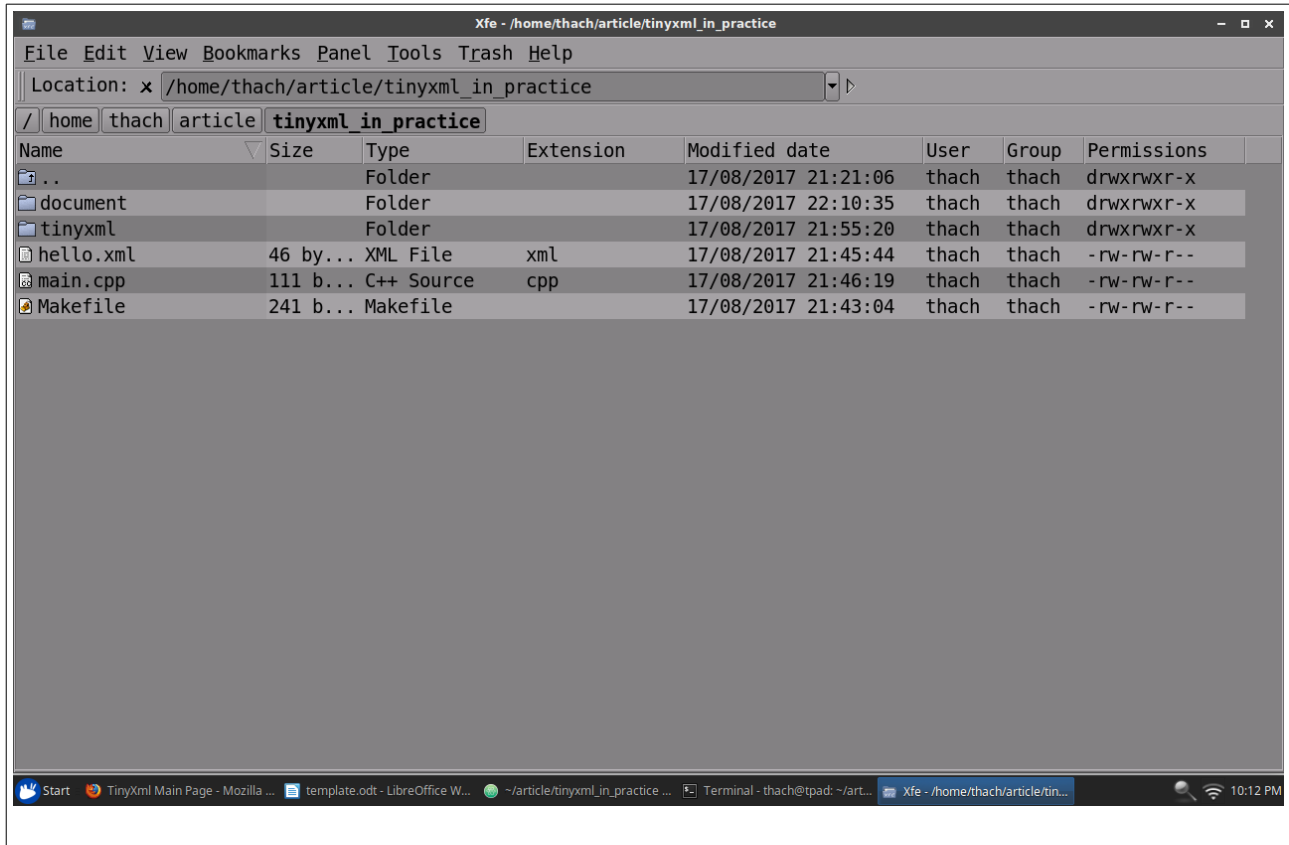
** Demo doc processed: **

<?xml version="1.0" standalone="no" ?>
<!-- Our to do list data -->
<ToDo>
  <!-- Do I need a secure PDA? -->
  <Item priority="2" distance="close">Go to the
    <b>Toy store!</b>
  </Item>
  <Item priority="1" distance="far">Talk to:
    <Meeting where="School">
      <Attendee name="Marple" position="teacher" />
      <Attendee name="Voel" position="counselor" />
    </Meeting>
  </Item>
</ToDo>
```

Write Your First Application

We use TinyXml as library, so we will don't write code inside tinyxml folder.

Create files: `main.cpp`, `hello.xml`, `Makefile` outside `tinyxml` folder.



Create xml data

hello.xml

```
<?xml version="1.0">
<Text>Hello World</Text>
```

Add code to load and print data

main.cpp

```
#include "tinyxml.h"

int main()
{
    TiXmlDocument doc("hello.xml");
    doc.LoadFile();

    doc.Print();
}
```

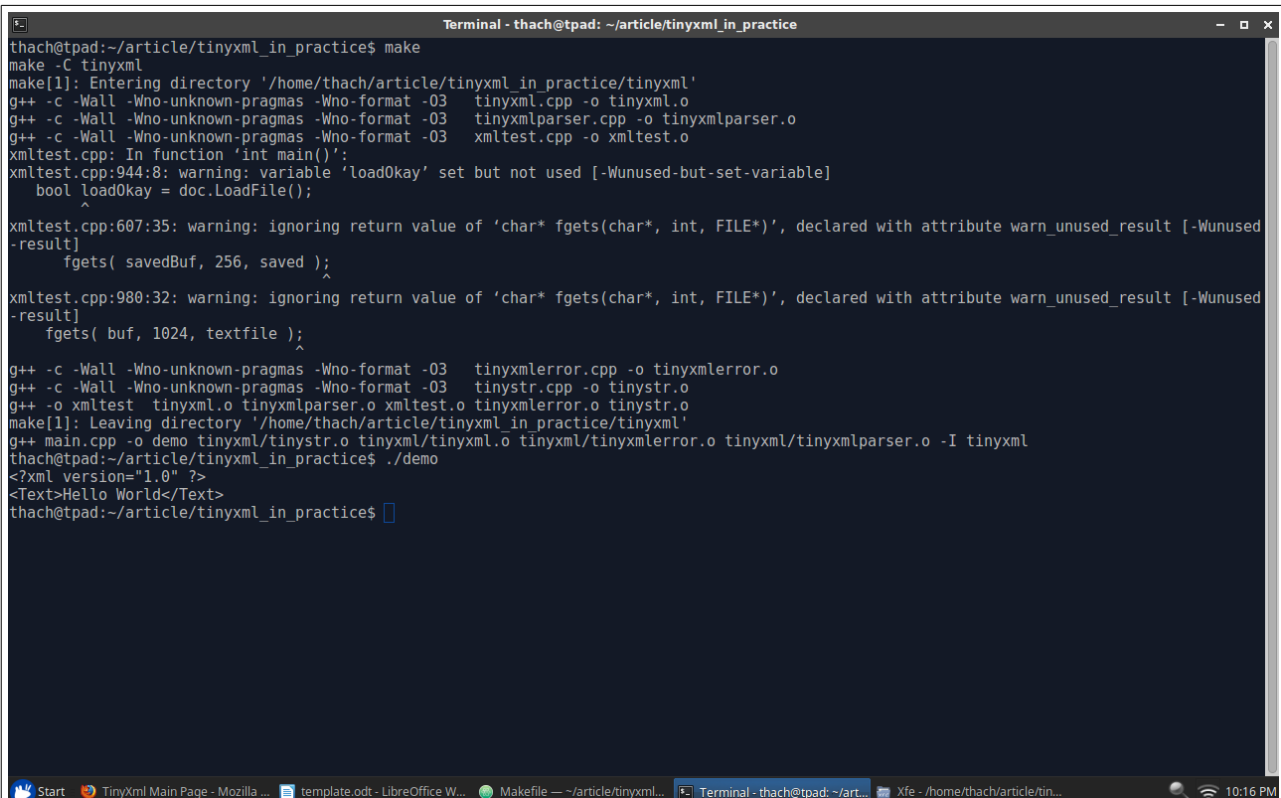
Add Makefile to compile source

Makefile

```
TINY_OBJ = tinyxml/tinystr.o \  
          tinyxml/tinyxml.o \  
          tinyxml/tinyxmlerror.o \  
          tinyxml/tinyxmlparser.o  
  
TINY_INC = -I tinyxml  
  
.PHONY: all tinyxml  
  
all: tinyxml  
    g++ main.cpp -o demo ${TINY_OBJ} ${TINY_INC}  
  
tinyxml:  
    make -C tinyxml
```

Compile and run

```
make  
./demo
```



```
Terminal - thach@tpad: ~/article/tinyxml_in_practice  
thach@tpad:~/article/tinyxml_in_practice$ make  
make -C tinyxml  
make[1]: Entering directory '/home/thach/article/tinyxml_in_practice/tinyxml'  
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3 tinyxml.cpp -o tinyxml.o  
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3 tinyxmlparser.cpp -o tinyxmlparser.o  
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3 xmltest.cpp -o xmltest.o  
xmltest.cpp: In function 'int main()':  
xmltest.cpp:944:8: warning: variable 'loadOkay' set but not used [-Wunused-but-set-variable]  
    bool loadOkay = doc.LoadFile();  
    ^  
xmltest.cpp:607:35: warning: ignoring return value of 'char* fgets(char*, int, FILE*)', declared with attribute warn_unused_result [-Wunused  
-result]  
    fgets( savedBuf, 256, saved );  
    ^  
xmltest.cpp:980:32: warning: ignoring return value of 'char* fgets(char*, int, FILE*)', declared with attribute warn_unused_result [-Wunused  
-result]  
    fgets( buf, 1024, textfile );  
    ^  
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3 tinyxmlerror.cpp -o tinyxmlerror.o  
g++ -c -Wall -Wno-unknown-pragmas -Wno-format -O3 tinystr.cpp -o tinystr.o  
g++ -o xmltest tinyxml.o tinyxmlparser.o xmltest.o tinyxmlerror.o tinystr.o  
make[1]: Leaving directory '/home/thach/article/tinyxml_in_practice/tinyxml'  
g++ main.cpp -o demo tinyxml/tinystr.o tinyxml/tinyxml.o tinyxml/tinyxmlerror.o tinyxml/tinyxmlparser.o -I tinyxml  
thach@tpad:~/article/tinyxml_in_practice$ ./demo  
<?xml version="1.0" ?>  
<Text>Hello World</Text>  
thach@tpad:~/article/tinyxml_in_practice$
```