TinyXml In Practice

Keep It Small and Simple

TiXmlDocument

Build XML Document & Write To File

&

Load & Add Element To XML Document

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Build XML Document & Write To File

```cpp
#include "tinyxml.h"

int main()
{
    TiXmlDocument doc;

    //add declaration
    TiXmlDeclaration *pDeclaration = new TiXmlDeclaration("1.0", "", "");
    doc.LinkEndChild(pDeclaration);

    //init element
    TiXmlElement *pElement = new TiXmlElement("Hero");

    TiXmlText *pText = new TiXmlText("Ninja");
    pElement->LinkEndChild(pText);

    //add attribute to element
    pElement->SetAttribute("role", "ganker");
    pElement->SetAttribute("speed", 890);
    pElement->SetAttribute("strength", 450);

    //add element
    doc.LinkEndChild(pElement);

    doc.Print();

    //write document to file
    doc.SaveFile("ninja.xml");

    return 0;
}
```
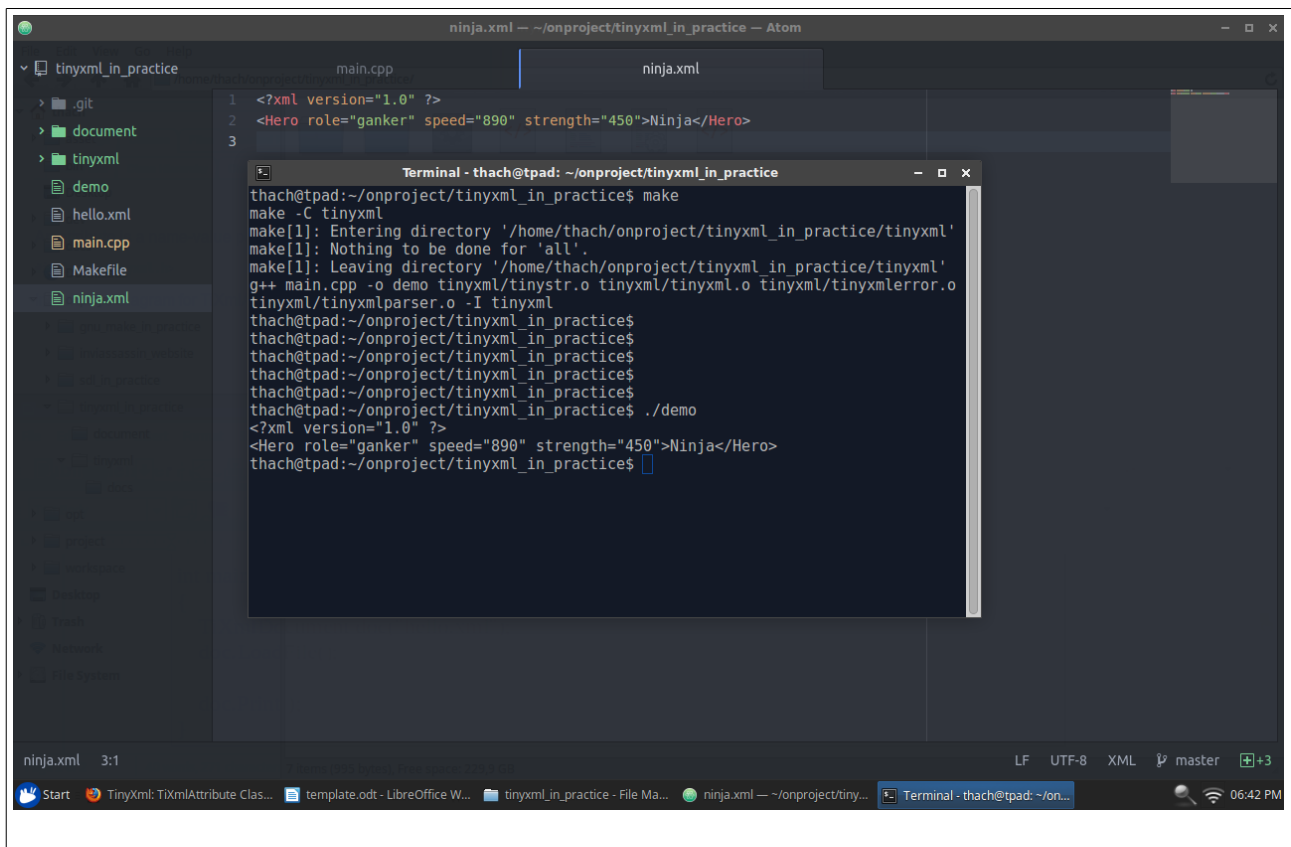
Compile And Run

```
make
./demo
```

main.cpp   ninja.xml

```
1  <?xml version="1.0" ?>
2  <Hero role="ganker" speed="890" strength="450">Ninja</Hero>
3
```

tinyxml_in_practice
- .git
- document
- tinyxml
- demo
- hello.xml
- main.cpp
- Makefile
- ninja.xml

Terminal - thach@tpad: ~/onproject/tinyxml_in_practice

```
thach@tpad:~/onproject/tinyxml_in_practice$ make
make -C tinyxml
make[1]: Entering directory '/home/thach/onproject/tinyxml_in_practice/tinyxml'
make[1]: Nothing to be done for 'all'.
make[1]: Leaving directory '/home/thach/onproject/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:~/onproject/tinyxml_in_practice$
thach@tpad:~/onproject/tinyxml_in_practice$
thach@tpad:~/onproject/tinyxml_in_practice$
thach@tpad:~/onproject/tinyxml_in_practice$
thach@tpad:~/onproject/tinyxml_in_practice$
thach@tpad:~/onproject/tinyxml_in_practice$ ./demo
<?xml version="1.0" ?>
<Hero role="ganker" speed="890" strength="450">Ninja</Hero>
thach@tpad:~/onproject/tinyxml_in_practice$
```

ninja.xml   3:1   LF   UTF-8   XML   ⑂ master   ⊞+3

Start   TinyXml: TiXmlAttribute Clas...   template.odt - LibreOffice W...   tinyxml_in_practice - File Ma...   ninja.xml — ~/onproject/tiny...   Terminal - thach@tpad: ~/on...   06:42 PM

Load & Add Element To XML Document

```cpp
#include "tinyxml.h"

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

    //init element
    TiXmlElement *pElement = new TiXmlElement("Hero");
    TiXmlText *pText = new TiXmlText("Nuker");
    pElement->LinkEndChild(pText);

    //add attribute to element
    pElement->SetAttribute("role", "intelligence");
    pElement->SetAttribute("speed", 600);
    pElement->SetAttribute("magic", 800);

    //add element
    doc.LinkEndChild(pElement);

    doc.Print();

    doc.SaveFile("ninja.xml");

    return 0;
}
```

ninja.xml — ~/onproject/tinyxml_in_practice — Atom

tinyxml_in_practice

- .git
- document
- tinyxml
- demo
- hello.xml
- main.cpp
- Makefile
- ninja.xml

main.cpp   tinyxml.h   ninja.xml

```
1  <?xml version="1.0" ?>
2  <Hero role="ganker" speed="890" strength="450">Ninja</Hero>
3  <Hero role="tanker" speed="400" strength="830">axe</Hero>
4
```

Terminal - thach@tpad: ~/onproject/tinyxml_in_practice

```
thach@tpad:~/onproject/tinyxml_in_practice$ make
make -C tinyxml
make[1]: Entering directory '/home/thach/onproject/tinyxml_in_practice/tinyxml'
make[1]: Nothing to be done for 'all'.
make[1]: Leaving directory '/home/thach/onproject/tinyxml_in_practice/tinyxml'
g++ main.cpp -o demo tinyxml/tinystr.o tinyxml/tinyxml.o tinyxml/tinyxmlerror.o
thach@tpad:~/onproject/tinyxml_in_practice$ ./demo
<?xml version="1.0" ?>
<Hero role="ganker" speed="890" strength="450">Ninja</Hero>
<Hero role="tanker" speed="400" strength="830">axe</Hero>
thach@tpad:~/onproject/tinyxml_in_practice$
```

ninja.xml   2:44   LF UTF-8 XML ⑂ master +3

Start | TinyXml: Main Page - Mozilla... | 02_usage.odt - LibreOffice W... | ninja.xml — ~/onproject/tiny... | Terminal - thach@tpad: ~/on... | Xfe - /home/thach/onproject/...   10:49 PM