

13.2: LOOPING THROUGH NODES



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Often the XML has multiple nodes and we need to write a loop to process all of the nodes. In the following program, we loop through all of the `user` nodes:

CODE 13.2.1 (PYTHON):

```
%%python3

import xml.etree.ElementTree as ET

input = '''
<stuff>
  <users>
    <user x="2">
      <id>001</id>
      <name>Chuck</name>
    </user>
    <user x="7">
      <id>009</id>
      <name>Brent</name>
    </user>
  </users>
</stuff>'''

stuff = ET.fromstring(input)
lst = stuff.findall('users/user')
print('User count:', len(lst))

for item in lst:
    print('Name', item.find('name').text)
    print('Id', item.find('id').text)
    print('Attribute', item.get("x"))

# Code: http://www.py4e.com/code3/xml2.py
```

run

restart

The `findall` method retrieves a Python list of subtrees that represent the `user` structures in the XML tree. Then we can write a `for` loop that looks at each of the user nodes, and prints the `name` and `id` text elements as well as the `x` attribute from the `user` node.

```
User count: 2
Name Chuck
Id 001
Attribute 2
Name Brent
Id 009
Attribute 7
```