

## Re: XML::LibXML navigation

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*Source:* <http://coding.derkeiler.com/Archive/Perl/perl.beginners/2007-01/msg00331.html>

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- *From:* [dermot@xxxxxxxxxxxxxxxxxxx](mailto:dermot@xxxxxxxxxxxxxxxxxxx) (Beginner)
  - *Date:* Fri, 12 Jan 2007 17:29:08 -0000
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On 12 Jan 2007 at 17:06, Rob Dixon wrote:

Hi Rob,

In the sample data below you'll see some addresses with "DO NOT..." in. I can locate them easily enough but I am struggling to navigate back up the DOM to access the code so I can record the code with faulty addresses.

Here my effort. Can anyone help me either to move backup up to the right element node or catch the code node before I begin to loop through the address line(s).

TIA,  
Dp.

===== My Effort =====

```
#!/usr/bin/perl
```

```
my $file = 'ADDRESS.XML';  
open(FH,$file) or die "Can't open file $file: $!\n";
```

```
my $parser = XML::LibXML->new;  
my $doc = $parser->parse_fh(*FH);
```

```
my @codes = $doc->findnodes('//code');  
my @lines = $doc->findnodes('//lines');
```

```
for (my $i = 0; $i < $#codes; ++$i) {  
#print $codes[$i]->string_value, "\t";  
my @add = $lines[$i]->childNodes;  
for ( my $a = 1; $a < $#add; ++$a) {  
if ($add[$a]->string_value =~ /\s+NOT\s+/) {  
print $codes[$i]->string_value,": ",$add[$a]-
```

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```
string_value,"\n";  
  
}  
}
```

If I understand you correctly then all you need is

```
my @results = $doc->findnodes('/dataroot/address[contains(lines/line, "DO NOT  
USE")]');  
  
foreach my $address (@results) {  
    my $code = $address->findvalue('code');  
    print $code, "\n";  
}
```

which prints the code of all those addresses that have a line containing 'DO NOT USE'. Is that what was required?

Yes ...and no. I guess I want to print out the 'code' for any address so that I can get the data corrected but I guess I would also like to remove those records at the /dataroot/address level so they don't appear in the file.

i spent a lot of time on this today as this look like a excellent parser and DOM navigator but I struggled moving around.

In your example @results looks like it would contain references to all the /lines/line data with DO NOT USE in the string\_value. What I have struggling with is that this is also a reference to the record as a whole and my navigation techniques are not working out. For example whenever I used findnodes I was getting every code in the file. I think now that was because I was using /dataroot/address as the starting point.

Aside from CPAN, I would appreciate any other sources of info about using the using libXML with perl and xpath expressions. It is whoppingly fast.

Thanx again,  
Dp.

Rob

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