Basic SemiXML tests

Testing the basic use of SemiXML

Introduction

SemiXML is a library which translates an equally named language into XML. There are several syntactic constructs which look very much the same as the XML language.

We need to write a convenience routine to call the parser several times from the tests. This way we keep the tests simple.

```
use SemiXML;

sub parse ( Str $content --> Str ) {

  state SemiXML::Sxml $x .= new;
  $x.parse(:$content);
  ~$x;
}
```

Plain top level elements

First a few tests to generate top level elements

```
my $xml = parse('$st []');
is $xml, '<st/>', 'T0';
$xml = parse('$st [ abc ]');
is $xml, '<st>abc</st>', 'T1';
```

- ✔ **T0:** The element generated is <st/>.
- ✔ **T1:** The element generated is <st>abc</st>.

```
$xml = parse(Q:q@$st a1=w a2='g g' a3="h h" [ ]@);
like $xml, /'a1="w"'/, 'T2';
like $xml, /'a2="g g"'/, 'T3';
like $xml, /'a3="h h"'/, 'T4';
dies-ok { $xml = parse('$st [ $f w [] hj ]'); }, 'T5';
```

- ✔ **T2:** a1="w" attribute
- ✔ **T3:** a2="g g" attribute
- ✔ **T4:** a3="h h" attribute
- ✔ **T5:** Elementary parse failures are trapped. Here the first attribute **w** to element **f** is unfinished. Unfortunately the location where the error exactly happens is not always accurate.

Basic nesting

Nesting is done by specifying other tags in the body of a tag.

```
$xml = parse('$t1 [ $t2 [] $t3[]]');
is $xml, '<t1><t2/><t3/></t1>', 'T6';
```

✔ **T6:** t2 and t3 are the nested tags

```
$xml = parse('$t1 [ $**t2 [] $t3[]]');
is $xml, '<t1> <t2/> <t3/></t1>', 'T7';
$xml = parse('$t1 [ $|*t2 [] $t3[]]');
is $xml, '<t1><t2/> <t3/></t1>', 'T8';
$xml = parse('$t1 [ $*|t2 [] $t3[]]');
is $xml, '<t1> <t2/><t3/></t1>', 'T9';
```

✔ **T7:** nested tags with spaces around element t2 using $**

✔ **T8:** nested tags with a space on the right of t2 with $|*

✔ **T9:** nested tags with a space on the left of t2 done with $*|