

Exercises: XML

To simplify these examples, use simple strings and turn them into XML documents using `parseFromString` as below (you can also steal this function from `document.js` in the `javascript-browser` Eclipse project). In the next lecture, we will get the XML from an Ajax request instead, but getting the XML from strings is good for practicing and learning.

```
function getXmlDoc(xmlString) {
    var parser = new DOMParser();
    var xmlDocument =
        parser.parseFromString(xmlString, "application/xml");
    return(xmlDocument);
}
```

1. Write a function that will take an XML document and print out the parent node (top-level element) name. For example:

```
var testString = "<a att1='Hello'><b att2='Hola'>Hi</b><c/></a>";
var doc = getXmlDoc(testString);
printNodeName(doc); --> Node: a
```
2. Write a function that will take an XML document and return the body content of the first node with the given name. For example:

```
// Same doc as above
bodyContent(doc, "b"); --> "Hi"
```
3. Write a function that will take an XML document and print out the parent node (top-level element) name and the attributes that the parent node has.

```
// Same doc as above
printNodeInfo1(doc); --> Node: a (att1=Hello)
```
4. Write a function that will take an XML document and print out the parent node (top-level element) name, the attributes that the parent node has, the child node names (immediately nested elements), and their attributes.

```
// Same doc as above;
printNodeInfo2(test); --> Node: a (att1=Hello)
                          Children: b (att2=Hola) c ()
```
5. Make a Web page with a textarea. Let the user enter some XML in the textarea. When they press a button, show the same info as in the previous problem. Insert this info into a div in the page.