

Article

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Use %XML.Node to walk a DOM

The following code walks a DOM using %XML.Node. It also prevents %XML.Writer to change whitespace. Run the code using the class method "test":

```
Class objectscript.walkDOM Extends %Persistent
{
    ClassMethod dfs(node As %XML.Node)
    {
        s entrynode=node.NodeId
        do {
            //element nodes with one whitespace typed child are the ones we want to change
            if (node.NodeType=$$$xmlELEMENTNODE){
                s snode=node.NodeId
                if (node.MoveToFirstChild())
                {
                    i ('node.MoveToNextSibling()){
                        i (node.NodeType=$$$xmlWHITESPACENODE){
                            s node.NodeType=$$$xmlTEXTNODE
                            s node.NodeId=snode
                        }
                    }
                }
                s node.NodeId=snode
            }
            if (node.HasChildNodes()){
                d node.MoveToFirstChild()
                d ..dfs(node)
            }
        } while (node.NodeType'="" && node.MoveToNextSibling())
        s node.NodeId=entrynode
    }

    ClassMethod test()
    {
        set xml = "abcdefg"

        s reader=##class(%XML.Reader).%New()
        do reader.OpenString(xml)
        set writer = ##class(%XML.Writer).%New()
        //do some magic
        d ..dfs(reader.Document)

        w !,"with indent=1:",!
        set writer.Indent = 1
        do writer.OutputToString()
        do writer.Document(reader.Document)
        w writer.GetXMLString()
        set writer.Indent = 0
    }
}
```

```
w !,"with indent=0:",!  
do writer.OutputToString()  
do writer.Document(reader.Document)  
w writer.GetXMLString()  
}  
}
```

Here's a link to the code on GitHub: <https://github.com/intersystems-community/code-snippets/blob/master/src/...>

[#Code Snippet](#) [#SOAP](#) [#ObjectScript](#) [#Caché](#)

Source URL: <https://community.intersystems.com/post/use-xmlnode-walk-dom>