

文章

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其他示例

Flexible Reader类

```
/// desc??????
ClassMethod Read(mydir, myfile, class, element)
{
    set reader=##class(%XML.Reader).%New()
    if $extract(mydir,$length(mydir))'="/" {set mydir=mydir_"/"}
    set file=mydir_myfile
    set status=reader.OpenFile(file)
    if $$$ISERR(status) {do $System.Status.DisplayError(status)}

    do reader.Correlate(element,class)

    while reader.Next(.object,.status)
    {
        if $$$ISERR(status) {do $System.Status.DisplayError(status)}
        set status=object.%Save()
        if $$$ISERR(status) {do $System.Status.DisplayError(status)}
    }
}
```

请注意，当读入Person对象时，会自动读入其相应的Address对象。(当保存Person对象时，也会自动保存相应的Address对象。)。这是一种相当粗糙的技术，仅适用于批量加载数据；它不会比较或更新现有数据。

为了使用此方法，需要一个支持XML的类，该类的投影与传入的XML文档匹配。有名为MyApp.PersonWithAddress和MyApp.Address的启用了XML的类。另外，假设有一个XML文档，如下所示：

```
<?xml version="1.0" encoding="UTF-8"?>
<Root>
  <Person>
    <Name>Able, Andrew</Name>
    <DOB>1977-10-06</DOB>
    <Address>
      <Street>6218 Clinton Drive</Street>
      <City>Reston</City>
      <State>TN</State>
      <Zip>87639</Zip>
    </Address>
  </Person>
</Root>
```

要读取此文件中的对象并将其保存到磁盘，需要执行类似以下操作：

```
set dir="C:\XMLread-these"
set file="PersonData.txt"
set cls="MyApp.PersonWithAddress"
set element="Person"
do ##class(Readers.BasicReader).Read(dir,file,cls,element)
```

读取字符串

下面的方法接受XML字符串、类和元素作为输入参数。它保存它读取的每个对象。

```
ClassMethod ReadString(string, class, element)
{
    set reader=##class(%XML.Reader).%New()
    set status=reader.OpenString(string)
    if $$$ISERR(status) {do $System.Status.DisplayError(status)}

    do reader.Correlate(element,class)

    while reader.Next(.object,.status)
    {
        if $$$ISERR(status) {do $System.Status.DisplayError(status)}
        set status=object.%Save()
        if $$$ISERR(status) {do $System.Status.DisplayError(status)}
    }
}
```

要使用此方法，需要执行类似以下操作：

```
set cls="MyApp.Person"
set element="Person"
do ##class(Readers.BasicReader).ReadString(string,cls,element)

/// <?xml version='1.0' encoding='utf-8'?>
/// <update><version>27</version><name>Herb</name><url>http://192.168.31.124/dthealth
/// /web/csp/Herb.apk</url></update>
/// w ##class(PHA.TEST.Xml).ReadStringConfig("<?xml version='1.0' encoding='utf-8'?><
update><version>27</version><name>Herb</name><url>http://192.168.31.124/dthealth/web/
csp/Herb.apk</url></update>", "YX.Config", "update")
ClassMethod ReadStringConfig(string, class, element)
{
    set reader=##class(%XML.Reader).%New()
    set status=reader.OpenString(string)
    if $$$ISERR(status) {do $System.Status.DisplayError(status)}

    do reader.Correlate(element,class)
    b ;zw reader
    while reader.Next(.object,.status)
    {
        if $$$ISERR(status) {do $System.Status.DisplayError(status)}
        b ;zw object
        Write object.version,!
    }
}
```

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```
+----- general information -----
|      oref value: 1
|      class name: %XML.Reader
|      reference count: 2
+----- attribute values -----
|      CheckRequired = 0
|      (Childlist) = $c(0,0,0,0,29,0,0,0,1,0,0,0,0,0,0,29,0,0,0,1,0,0,0)_"_/$c(0
,0,0)_" "_$c(0,0,0)_"0"_$c(0,0,0)_"@"_$c(0,0,0,3,0,0,0)
|CorrelationTable("update") = "YX.Config"
|      (Descriptor) = 16
|      Format = ""
|      IgnoreNull = 0
|      IgnoreSAXWarnings = 0
|      KeepWhitespace = 1
|      Node = "0,29"  <Set>
|      (NodeIsCurrent) = 1
|      (OpenFormat) = ""
|      (ParentChildlist) = ""
|      (ParentDescriptor) = -1
|      (ParentNodeId) = "0,0"
|      SAXFlags = 95
|      SAXMask = 1023
|      SAXSchemaSpec = ""
|      SSLConfiguration = ""
|      Summary = 0
|      UsePPGHandler = ""
+----- swizzled references -----
|      i%Document = "2@%XML.Document"  <Set>
|      r%Document = ""  <Set>
|      i%EntityResolver = ""
|      r%EntityResolver = ""
+-----
```

DHC-APP 2e1>zw reader.EntityResolver

""

DHC-APP 2e1>g

b ;zw object

^

<BREAK>zReadStringConfig+9^PHA.TEST.Xml.1

DHC-APP 2e1>zw object

object=<OBJECT REFERENCE>[3@YX.Config]

```
+----- general information -----
|      oref value: 3
|      class name: YX.Config
|      reference count: 2
+----- attribute values -----
|      %Concurrency = 1  <Set>
|      name = "Herb"
|      url = "http://192.168.31.124/dthealth/web/csp/Herb.apk"
|      version = 27
+-----
```

DHC-APP 2e1>g

27

Herb

<http://192.168.31.124/dthealth/web/csp/Herb.apk>

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<https://cn.community.intersystems.com/post/%E7%AC%AC%E5%8D%81%E4%BA%8C%E7%AB%A0-xml%E5%85%B6%E4%BB%96%E7%A4%BA%E4%BE%8B>