
Question

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Iterate over object properties which name contains underscore _

Hello,

I would like to learn how to iterate over object's properties which name contains underscore _

For example, the API gives to us the following message:

```
[  
  { "codcias": " 12025222 ", "nombrecentro": " C.P. LA RESTINGA", "direccion": "C/ AVENIDA  
MARITIMA S/N (LA RESTINGA) ", "localidad": "EL PINAR", "telefono": "922922660", "longitud":  
"-17.98384130001068", "latitud":  
"-17.98384130001068", " tipocentro " : " CP pñntourgencia " : " }N "   
  
  { "codcias": "12025223 ", "nombrecentro": " C.P. ISORA ", "direccion": "CTRA. GRAL. ISORA,  
S/N ", "localidad": "VALVERDE ", "telefono": "922553590 ", "longitud":  
"-17.947459816932678 ", "latitud":  
"27.753653786326343 ", " tipocentro " : " CP pñntourgencia " : " }N "   
  
  ...  
]
```

And we are currently parsing it as follows:

```
While (res.Data.AtEnd = 0) {  
  set linea = linea_res.Data.Read()  
  $$$LOGINFO("LINEA: " _linea)  
  
}  
set claseAux = ##class(%ZEN.Auxiliary.jsonProvider).%New() set tSC= claseAux.  
%ConvertJSONToObject(.linea,"EsquemasDatos.miSCS.GestionFavoritos.tns.infoCentro",.objeto,1)  
set i = 0, pResponse.numCentro = objeto.Size  
While (objeto.Size > i) {  
  set i = i + 1  
  set centro = ##class(EsquemasDatos.miSCS.GestionFavoritos.tns.infoCentro).%New()  
  set centro.codCias = objeto.GetAt(i).codCias  
  set centro.nombreCentro = objeto.GetAt(i).nombreCentro
```

```
set centro.direccion = objeto.GetAt(i).direccion
set centro.localidad = objeto.GetAt(i).localidad
set centro.telefono = objeto.GetAt(i).telefono
set centro.longitud = objeto.GetAt(i).longitud
set centro.latitud = objeto.GetAt(i).latitud
set centro.tipoCentro = objeto.GetAt(i).tipoCentro
set centro.puntoUrgencia = objeto.GetAt(i).puntoUrgencia
do pResponse.centros.Insert(centro)
}
```

Because of some API's response's properties contain underscore, our message would only extract those without underscore:

```
{
  "codCias": "",
  "nombreCentro": "",
  "direccion": "CTRA. VALSEQUILLO, S/N",
  "localidad": "TELDE",
  "telefono": 928695583,
  "longitud": -15.430834293365479,
  "latitud": 27.99417167861787,
  "tipoCentro": "",
  "puntoUrgencia": ""
},
{
  "codCias": "",
  "nombreCentro": "",
  "direccion": "LA PLAZA, S/N",
  "localidad": "VEGA DE SAN MATEO",
  "telefono": 928664052,
  "longitud": -15.575432,
  "latitud": 28.00458,
  "tipoCentro": "",
  "puntoUrgencia": ""
},
}
```

As we see, we have codCias, nombreCentro, tipoCentro and puntoUrgencia empty because of its property names are: codcias, nombrecentro, tipocentro and puntourgencia.

We have also read about it in the following topics:

<https://community.intersystems.com/post/iterating-through-all-properties...>

<https://community.intersystems.com/post/iterate-over-dynamic-object>

<https://cedocs.intersystems.com/latest/csp/documatic/%25CSP.Documatic.cl...>

We could Read the httpResponse and parse the string as follows:

```

set centro.codCias = $PIECE($PIECE(linea,"""codcias"":""",2),""",""",""nombrecentro""",1)
set pResponse.nombrecentro = $PIECE($PIECE(linea,"""nombrecentro"":""",2),""",""",""direccion""",1)
set pResponse.direccion = $PIECE($PIECE(linea,"""direccion"":""",2),""",""",""localidad""",1)
set pResponse.localidad = $PIECE($PIECE(linea,"""localidad"":""",2),""",""",""telefono""",1)
set pResponse.telefono = $PIECE($PIECE(linea,"""telefono"":""",2),""",""",""longitud""",1)
set pResponse.longitud = $PIECE($PIECE(linea,"""longitud"":""",2),""",""",""latitud""",1)
set pResponse.longitud = $PIECE($PIECE(linea,"""latitud"":""",2),""",""",""tipocentro""",1)
set pResponse.longitud = $PIECE($PIECE(linea,"""tipocentro"":""",2),""",""",""puntu urgencia""",1)
set pResponse.longitud = $PIECE($PIECE(linea,"""puntu urgencia"":""",2),""",""",{}",1)

```

The question is, how could we read each object from the list, as a string?

As pseudocode it would be:

- 1) Get all list (whatever is inside [])
- 2) Get each object (whatever is inside {})
- 3) Parse each object's property

Currently our API responds to us a JSON. If we would have a XML, we could parse it with XML.PATH.Document. How could we iterate through all the properties inside an object, without the need to write their variable names?

It could be interesting to do something like:

```
While (res.Data.AtEnd = 0) {  
    set linea = linea_res.Data.Read()  
    $$$LOGINFO("LINEA: " _linea)
```

```
}

set claseAux = ##class(%ZEN.Auxiliary.jsonProvider).%New() set tSC= claseAux.
%ConvertJSONToObject(.linea,"EsquemasDatos.miSCS.GestionFavoritos.tns.infoCentro",.objeto,1)

set i = 0, pResponse.numCentro = objeto.Size
While (objeto.Size > i) {
set i = i + 1
set centro = ##class(EsquemasDatos.miSCS.GestionFavoritos.tns.infoCentro).%New()
set centro.codCias = objeto.GetAt(i).codCias

set centro.nextProperty = objeto.GetAt(i).nextProperty

do pResponse.centros.Insert(centro)
}
```

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[#Studio](#) [#Caché](#)

Source

URL:<https://community.intersystems.com/post/iterate-over-object-properties-which-name-contains-underscore-%E2%80%BD%E2%80%BD%E2%80%BD>