
Article

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Helper for ObjectScript Language Extensions

If you create your own Language Extensions to Object you mostly have to find the proper %ZLANGC00 or %ZLANGV00 or %ZLANGF00 and add the extensions manually.

A few utilities do it already automatically (ZPM, ZME, ..)

This utility allows you to add your extensions programmatically. (eg. at first run, or during installation)

I found this quite useful for my Docker-based demos as it all happens at the start time.

It is related to these articles

- [Parameter passing to Language Extensions](#)
- [Language Extensions](#)

I have also added a small demo example to visualize the operation of this utility.

Prerequisites

Make sure you have [git](#) and [Docker desktop](#) installed.

Installation

Clone/git pull the repo into any local directory

```
$ git clone https://github.com/rcemper/helper-for-objectscript-language-extensions.git
```

Open the terminal in this directory and run:

```
$ docker-compose build
```

Run the IRIS container with your project:

```
$ docker-compose up -d
```

Hot to Use it

```
; typ = "C" ... command extension
;      "F" ... function extension
;      "V" ... variable Extensin
; ext = name of the extension
; code (by ref) numbered array of lines to add
;
```

```
; do cmd^zLangExtender(typ,ext,.code) ;>> add extension
```

How to Test it

```
$ docker-compose exec iris iris session iris
USER>ZN "%SYS"
%SYS>do ^zLangExample
```

Compiling routine : %ZLANGF00.mac

```
label="ZZDUMMY"
line=6
line(1)=" ; "
line(2)=" ; just a demo dummy"
line(3)="ZZDUMMY(%a) "
line(4)=" quit " I got '"_a_"' for test"
line(5)=" ; what a nice demo "
line(6)=" ; "
sc=1
typ="F"
**** try ****
sc=" I got 'hi folks' for test"

result:
      ;Generated by %ZPM.PackageManager: Start
ZPM(pArgs...) Quit ##class(%ZPM.PackageManager).Shell(pArgs...)
      ;Generated by %ZPM.PackageManager: End
      ;
      ; just a demo dummy
ZZDUMMY(%a)
      quit " I got '"_a_"' for test"
      ; what a nice demo
      ;
%SYS>
```

And if you run it a second time?

It returns a standard error %Status.

```
%SYS>do ^zLangExample
%objlasterror="0 ...ZZDUMMY^%ZLANGF00 already defined.....
label="ZZDUMMY"
line=6
line(1)=" ; "
line(2)=" ; just a demo dummy"
line(3)="ZZDUMMY(%a) "
line(4)=" quit " I got '"_a_"' for test"
line(5)=" ; what a nice demo "
line(6)=" ; "
sc="0 ...ZZDUMMY^%ZLANGF00 already defined.....
typ="F"
ERROR #5001: ZZDUMMY^%ZLANGF00 already defined
%SYS>
```

[see Video here](#)

[GitHub](#)

[#Code Snippet](#) [#ObjectScript](#) [#Testing](#) [#Tips & Tricks](#) [#InterSystems IRIS](#)

Source URL: <https://community.intersystems.com/post/helper-objectscript-language-extensions>