
Subject: You have been replaced by a small procedure
Posted by [Ken Mankoff](#) on Sat, 23 Apr 2005 17:05:35 GMT
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```
; $Id: lixiaoyao.pro,v 1.2 2005/04/23 05:45:21 mankoff Exp mankoff $  
;  
;  
;+  
; NAME:  
; LIXIAOYAO  
;  
;  
; PURPOSE:  
; This is a small script to generate newsgroup postings  
; Inspired by http://groups-beta.google.com/groups?as_uauthors=lixiaoyao  
;  
; CATEGORY:  
; NewsGroup  
;  
;  
; CALLING SEQUENCE:  
; LIXIAOYAO  
;  
;  
; KEYWORD PARAMETERS:  
; HELP: The _EXTRA=e keyword is used to HELP. This is where the IDL  
; part of the vocabulary comes from.  
;  
;  
; OUTPUTS:  
; A newsgroup post (cut-and-paste to comp.lang.idl-pwave)  
;  
;  
; PROCEDURE:  
; Ask a semi-formed pseudo-random question about an IDL procedure, term,  
; technique, or keyword.  
;  
;  
; The procedure gets part of the vocabulary from introspection of the  
; IDL session via the HELP command. Therefore, the procedure has a  
; larger vocabulary if you have been in an active IDL session for a  
; while and modified the state.  
;  
;  
; For the largest possible vocabulary, stop (or crash or breakpoint)  
; inside a large procedure or function (ex: surface, indgen(16,16,16)).  
; Then, use an appropriate keyword.  
;  
;  
; I find using the PROCEDURE and/or FULL keywords work well.  
;  
;  
; EXAMPLE:  
; IDL> lixiaoyao, /PROC, /FULL  
;  
;  
; I want system with MAP_SATELLITE_LIMIT that is NZ  
; Show me answer  
;
```

```

; I want result with E_HORIZON that is GOODESHOMOLOSINE
; Please solve for me.
;
; MODIFICATION HISTORY:
; Written by: Ken Mankoff, 2005-04-23
;
;-

```

```
pro lixiaoyao, _EXTRA=e
```

```

q = [ 'Why does X need Y for Z?', $ ; basic sentence structure
      'I have a X to do Y using Z.', $
      'I have a X to show Y using Z', $
      'I want X with Y that is Z', $
      'It does X but with Y and then result is Z?', $
      'Where does X show Y. Also, Z is what?' ]
q = q[ randomu( seed ) * n_elements( q ) ] ; pick one

; build x,y,z
help, _EXTRA=e, output=v ;vocabulary
null = where( v eq ", n, complement=notnull, ncomplement=nnotnull )
if nnotnull ne 0 then v = v[ notnull ]
vv = [ 'foo' ]
for i = 0, n_elements( v )-1 do vv = [ vv, strsplit( v[ i ], /extract ) ]
vv = vv[ sort( vv ) ]
vv = vv[ uniq( vv ) ]
short = where( strlen( vv ) lt 1, nshort, complement=long, ncomplement=nlong )
if nlong ne 0 then vv = vv[ long ]

x = ['var','function','procedure','variable','system','session', 'result']
y = ( z = vv )

nx = n_elements( x ) ; again, pick one
ny = n_elements( y )
nz = n_elements( z )
rx = randomu( seed0 ) * nx
ry = randomu( seed1 ) * ny
rz = randomu( seed2 ) * nz

s = stregex( q, '(.*)X(.*)Y(.*)Z(.*)', /extract, /subexpr ) ; insert XYZ to Q
p = s[ 1 ] + x[ rx ] + s[ 2 ] + y[ ry ] + s[ 3 ] + z[ rz ] + s[ 4 ] ; phrase

print, p ; ask phrase

g = [ 'How to solve it?', $    ; grovel
      'Can you help?', $
      'Who will help?', $
```

```
'Explain for me.', $  
'Show me answer', $  
'Tell me why', $  
'Please solve for me.]  
print, g[ randomu( seed ) * n_elements( g ) ]
```

END

```
;  
; $Log: lixiaoyao.pro,v $  
; Revision 1.2 2005/04/23 05:45:21 mankoff  
; First working version. Mimics well. Poorly coded  
;  
; Revision 1.1 2005/04/23 04:51:03 mankoff  
; Initial revision  
;
```
