A HYPERHYPERCUBE OF SIDE TWO

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In the August 1971 Word Ways, Darryl Francis challenged the reader to produce a hyperhypercube (a word cube in five dimensions) out of 80 suitably-chosen two-letter words. The array on the right represents the best solution I have been able to obtain. 73 of the words are found in Webster's Second or Third Editions (one, OP, is found in the Addenda to the Third); 5 (FY, IG, IW, RY, YK) are obsolete words from Webster's First Edition; 2 (UA, UK) are found in the Times Index-Gazetteer.

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D  A │ E  L
  O  H │  N  O
I  N │ F  A
  R  E │  Y  U
─────────────
U  T │ S  E
  P  Y │  U  M
G  I │ O  W
  A  E │  K  A
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To read off the words from the array, one must read two across words, two down words, and one diagonal word. For example, the D in the top left corner appears with the two across words DA and DE, the two down words DI and DU, and the diagonal word DO. Similarly, the F appears in the two across words IF and FA, the two down words EF and FO, and the diagonal word FY.

For the record, here is an alphabetical listing of all eighty of the words in the hyperhypercube:

ae	di	eu	hy	lo	om	re	uk
ah	do	ew	ie	ma	on	ry	um
ak	du	fa	if	na	op	se	up
al	ea	fo	ig	ne	or	so	us
ah	ee	fy	in	ni	ou	su	ut
at	ef	ga	ir	no	ow	te	wa
au	el	gi	iw	nu	pa	ti	ye
aw	em	go	ka	ny	pu	ty	yk
da	en	he	la	oh	py	ua	ym
de	es	ho	le	ok	ra	ug	yu