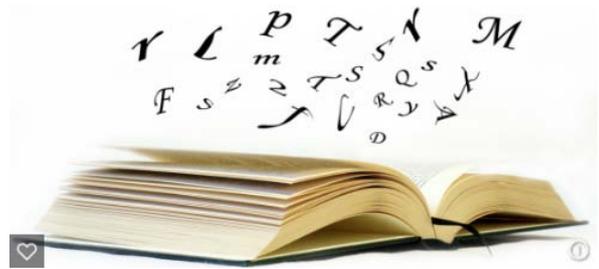


HP-41

English<>Spanish

Dictionary Module



Overview

This module is the implementation of an old idea for a project that somehow never saw the daylight up until now. Like the translation devices from the early eighties, this module will translate the words you write in the Alpha register – up to 14 characters long. Utility functions are also provided to:

- Enumerate the words by types (All, nouns, verbs, adjectives, etc.),
- Access a word by its number on the tables or get an index# from the word,
- Access the “I’m feeling lucky” random word selection, and
- Play the word-guessing game HANGMAN – if you dare!

The included database is modest in size – 533 words in the 8k version – yet it offers an interesting selection based on the words intrinsic value, either grammatical, for their spelling, or as examples of “false friends”. In all likelihood you will come across many words that you weren’t familiar with before.

The routines will search the word tables looking for the target in ALPHA, reporting the matching entry on the parallel table. The 8k version of the module has parallel tables on each page, and the same concept has also been applied to other topics using a one-to-one relationship – say geographic landmarks like country capitals, and so on and so forth.

All functions are very intuitive to use, to the point of making this QRG superfluous – but here’s the rundown just in case. Note the parallel structure between the English and Spanish sections. The third section is new in the 8k version as well, and it groups the auxiliary functions not directly related to the translation functionality. Feel free to ignore them but a nice Hangman game using words from the dictionary will surely amuse your friends.

XROM	Function	Description	Input	Author
31,00	-ENGL>SPAN	Section Header	n/a	Ángel Martin
31,01	SPANISH	Translates Word to Spanish	English word in ALPHA	Ángel Martin
31,02	NOUNS	Enumerates English Nouns	none	Ángel Martin
31,03	VERBS	Enumerates English Verbs	none	Ángel Martin
31,04	OTHER	Enumerates other English words	none	Ángel Martin
31,05	CHANCE	Retrieves one word at random	(time from Time Module)	Ángel Martin
31,06	WORD _ _ _	Retrieves a word by its index	Index# in Prompt	Ángel Martin
31,07	"WLIST"	Lists ALL English words	none	Ángel Martin
31,08	-ESPA>INGL	Section Header	n/a	Ángel Martin
31,09	INGLES	Translates Word to English	Spanish word in ALPHA	Ángel Martin
31,10	NOMBRES	Enumerates Spanish Nouns	None	Ángel Martin
31,11	VERBOS	Enumerates Spanish Verbs	None	Ángel Martin
31,12	RESTO	Retrieves other Spanish words	None	Ángel Martin
31,13	PALABRA _ _ _	Retrieves a word by its index	Index# in prompt	Ángel Martin
31,14	AZAR	Retrieves one word at random	(time from Time Module)	Ángel Martin
31,15	"LISTAP"	Lists ALL Spanish words	none	Ángel Martin

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31,16	-DC TOOLS	Section Header	n/a	Ángel Martin
31,17	CLWAIT	Like PAUSE for the CL model	none	Ángel Martin
31,18	DTOA	Utility to write LCD to ALPHA	Text in LCD	Ángel Martin
31,19	"HANGM"	Hangman word-guessing game	Word in Alpha	M. Harwood
31,20	INDICE	Gets index# in Spanish Table	Spanish word in ALPHA	Ángel Martin
31,21	RNG	Random Number Generator	Time from Time Module	JM Baillard
31,22	WINDEX	Gets index# in English Table	English word in Alpha	Ángel Martin

1 – Dictionary Function Set and Contents.

This module has a very specific functionality on word translations, no more - no less. Love it or leave it, but if you take it for a spin make sure you don't miss the enumeration and individual word selection functions as described below.

Word selection hasn't been without compromises: the obvious limitation in the table sizes forced many words to be left out. I tried to choose them different enough and representative in some instances, whereas in others the beauty of the word (always a very subjective thing) just imposed the inclusion criteria.

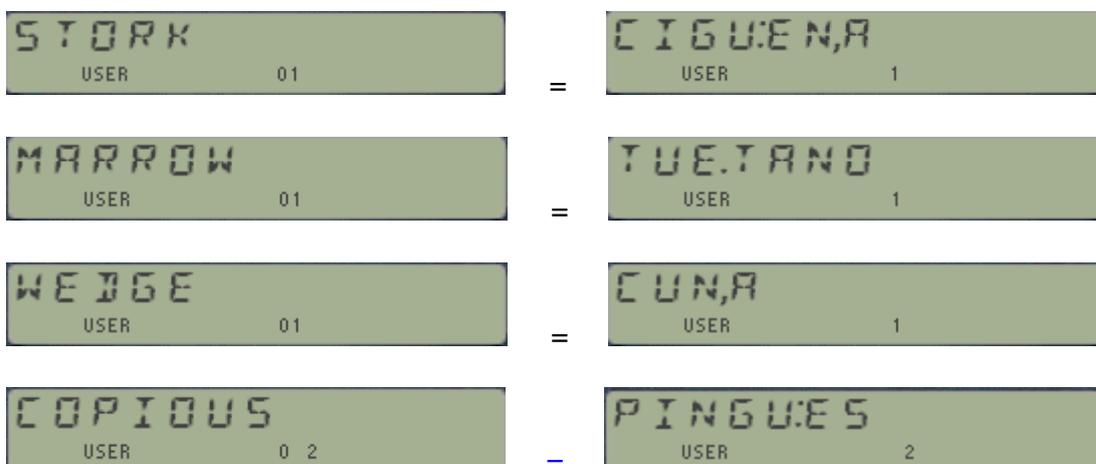
Choosing amongst different synonyms is often a matter of personal preference. I have tried to avoid similar-looking words and have chosen instead equivalent ones with different spelling to enrich the experience.

The HP-41 LCD was not designed for Spanish language support, so a few compromises have been made to overcome its limitations as follows:

- The ñ character is represented by the standard letter with a comma to the right: "N,"
- A dot to the right represents the orthographic tilde used in the accented syllables.
- The non-silent "ü" uses the colon at the right of the standard "u" to represent the dieresis.
- An underscore character is used in compound words or phrasal verbs.

Note that these apply to the displaying of the word in the LCD but not in ALPHA; therefore (and for your convenience) *all word entries should be typed using the standard letters without any punctuation signs.*

A few examples are shown below to illustrate these points:



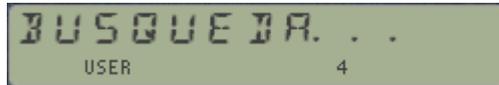
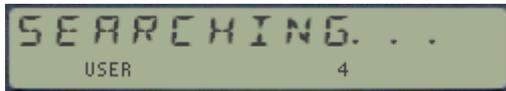
Note also that the flag status reflect the language and word types; as described later in the manual.

Spanish-English Dictionary Module

SPANISH and INGLES ; Word Translations

Simply write your target word in ALPHA (up to 12 characters long) and press the desired function to find the equivalent translation. Each function will look into the appropriate table, so make sure you don't mix them up.

The following feedback messages will be shown during the word search, depending on the language entry:



If the word is not found on the tables an error message is shown as follows:



Other possible errors will occur if ALPHA is blank – “[DATA ERROR](#)”

If the word is found in the source table but not in the target table: “[NONEXISTENT](#)”

The result will replace the original word in ALPHA, so you can use the reciprocal function to retrieve the original word in you want to double check the translation.

CHANCE and AZAR ; Random pickup of word

You can use these functions when you want to leave the words selection to the luck of a draw (aided by the Time Module). Nice to check your knowledge of the language, and if you don't happen to know the meaning just hit the corresponding translation function to find it out.

WORD and PALABRA ; Word pickup by table index

These prompting functions provide the ability to access any word by its storage index in the table. Refer to the appendix for the complete list of the words included in the ROM.

“NONEXISTENT” will be shown if you exceed the number of table entries (521 words)

Like it is the case with the other prompting functions, they will take the prompt argument from the X registers if executed as part of a user program. This is shown in the FOCAL programs **WLIST** and **LISTAP** described later on.

WINDEX and INDICE ; Index from Word in ALPHA

These are the inverse functions for the above: will return the table entry index# for the word in ALPHA if found. Note THAT they are language-specific as each one will only look in the corresponding table.

Spanish-English Dictionary Module

Selective Word Enumeration

These functions show a sequential enumeration of the words of a certain type included on the tables. You'll note that the enumeration is not alphabetical, but in the actual storage order of the words in the module.

The table below shows all the available functions:

Language	Nouns (Substantives)	Verbs (Actions)	Others (Adjectives, etc.)
Spanish	NOMBRES	VERBOS	RESTO
English	NOUNS	VERBS	OTHER

The Enumeration will proceed until the list is exhausted. You can stop it by pressing any key, which will terminate the function. The tables below list all words included in the module by the particular type and language.-

The Spanish meanings correspond to the Castilian sort – showing the author's origin. No slang or other cultural considerations should be expected – as they were excluded from the dictionary on purpose.

You'd note that some words could be listed as more than one type, depending on which aspect to focus on – but the tables reflect the choices made in the translations. Such are the vagaries of language!

WLIST and LISTAP ;Full table listings

This is a sweet and short FOCAL program that lists all words in the corresponding table, following the sequential input order. The enumeration can be halted at each word is you set the system flag 21.

See the program listing below, demonstrating the usage of the word pickup functions **WORD** and **PALABRA**.

Line	Instruction	Line	Instruction
01	LBL "WLIST"	10	WORD
02	SF 00	11	FC? 00
03	GTO 00	12	PALABRA
04	LBL "LISTAP"	13	PSE
05	CF 00	14	ISG X
06	LBL 00	15	GTO 01
07	1,225	16	BEEP
08	LBL 01	17	END
09	FS? 00	-	--

The table in next pages shows all words sorted by their actual index (entry number). You can use that as the prompt for functions **WORD** and **PALABRA** as mentioned previously in the manual.

Spanish-English Dictionary Module

Table 1.- Adjectives and others in English alphabetical order .

"ABOVE"	"SOBRE"	"LIKELY"	"PROBABLE"
"ACROSS"	"A_TRAVÉS"	"LITTLE"	"POCO"
"AGAINST"	"CONTRA"	"LONG"	"LARGO"
"AJAR"	"ENTORNADO"	"LOW"	"BAJO"
"ALOOF"	"AUSENTE"	"MAUDLIN"	"SENSIBLERO"
"ALTHOUGH"	"AUNQUE"	"MAYBE"	"TAL_VEZ"
"ASKANCE"	"DE_REOJO"	"MISCHIEVOUS"	"TRAVIESO"
"BAD"	"MALO"	"MUTE"	"MUDO"
"BEAUTIFUL"	"BELLO"	"NASTY"	"MOLESTO"
"BENEATH"	"DEBAJO"	"OBNOXIOUS"	"CARGANTE"
"BESIDE"	"JUNTO_A"	"OLD"	"VIEJO"
"BESIDES"	"ADEMÁS"	"ORANGE"	"NARANJA"
"BETWEEN"	"ENTRE"	"PERHAPS"	"QUIZÁ"
"BEYOND"	"MÁS_ALLÁ"	"PETTY"	"MEZQUINO"
"BITTER"	"AMARGO"	"RANDOM"	"ALEATORIO"
"BLACK"	"NEGRO"	"RED"	"ROJO"
"BLIND"	"CIEGO"	"RUSTED"	"OXIDADO"
"BLUE"	"AZUL"	"SAD"	"TRISTE"
"BRITTLE"	"QUEBRADIZO"	"SAGACIOUS"	"SAGAZ"
"BROWN"	"MARRÓN"	"SALTY"	"SALADO"
"CHEERFUL"	"RISUEÑA"	"SCARCE"	"ESCASO"
"CLEVER"	"LISTO"	"SENSIBLE"	"SENSATO"
"COLD"	"FRIO"	"SENSITIVE"	"SENSIBLE"
"CORNY"	"CURSI"	"SHALLOW"	"SOMERO"
"COPIOUS"	"PINGÜES"	"SHORT"	"CORTO"
"CRAZY"	"LOCO"	"SKINNY"	"FLACO"
"CROSS_EYED"	"BIZCO"	"SLANTED"	"INCLINADO"
"DAUNTLESS"	"INTRÉPIDO"	"SLENDER"	"ESBELTO"
"DEAD"	"MUERTO"	"SLOW"	"LENTO"
"DEEP"	"HONDO"	"SLY"	"TAIMADO"
"DESPITE"	"PESE_A"	"SMOOTH"	"SUAVE"
"EASY"	"FÁCIL"	"SNIDE"	"CAPCIOSO"
"FAKE"	"FALSO"	"SOFT"	"BLANDO"
"FAT"	"GORDO"	"STRONG"	"FUERTE"
"FEEBLE"	"ENCLENQUE"	"STUBBORN"	"CABEZOTA"
"FEW"	"POCOS"	"SWEET"	"DULCE"
"FOOL"	"TONTO"	"TALL"	"ALTO"
"FOREIGNER"	"EXTRANJERO"	"TENDER"	"TIERNO"
"FROZEN"	"HELADO"	"THICK"	"ESPESO"
"GOOD"	"BUENO"	"THIN"	"DELGADO"
"GREEN"	"VERDE"	"TIRED"	"CANSADO"
"GROUCHY"	"ENOJADIZO"	"UGLY"	"FEO"
"HANDSOME"	"GUAPO"	"WEAK"	"DÉBIL"
"HAPPY"	"FELIZ"	"WEARY"	"AGOTADO"
"HARD"	"DURO"	"WEIRD"	"RARO"
"HARD_HEADED"	"TERCO"	"WET"	"MOJADO"
"HARSH"	"ASPERO"	"WHITE"	"BLANCO"
"HERE"	"AQUÍ"	"WICKED"	"MALVADO"
"HOLLOW"	"HUECO"	"WITH"	"CON"
"HOT"	"CALIENTE"	"WITHOUT"	"SIN"
"INANE"	"ANODINO"	"YELLOW"	"AMARILLO"
"KIND"	"AMABLE"	"YORE"	"ANTAÑO"
"LANK"	"LACIO"	"YOUNG"	"JÓVEN"

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Table 2.- Nouns in English alphabetical order .

"AIRPLANE"	"AVIÓN"	"CRAVING"	"CAPRICHÓ"	"HATRED"	"ODIO"
"ANTLERS"	"ASTAS"	"CRIB"	"CUNA"	"HAZE"	"BRUMA"
"ANVIL"	"YUNQUE"	"CROWN"	"CORONA"	"HEAVEN"	"GLORIA"
"BACK"	"ESPALDA"	"CRUCIBLE"	"CRISOL"	"HEystack"	"PAJAR"
"BAIT"	"CEBO"	"CURL"	"RIZO"	"HINGE"	"BISAGRA"
"BAT"	"MURCIÉLAGO"	"DAWN"	"AURORA"	"HOAX"	"ENGAÑO"
"BEARD"	"BARBA"	"DEBRIS"	"ESCOMBROS"	"HOGWASH"	"BAZOFIA"
"BED"	"CAMA"	"DECOY"	"SEÑUELO"	"HOLE"	"AGUJERO"
"BEE"	"ABEJA"	"DELIVERANCE"	"SALVACIÓN"	"HONEYCOMB"	"PANAL"
"BEEHIVE"	"COLMENA"	"DENIAL"	"NEGACIÓN"	"HOOD"	"CAPUCHA"
"BEETLE"	"ESCARABAJO"	"DISCORD"	"CIZAÑA"	"HOOF"	"PEZUÑA"
"BELLOWS"	"FUELLE"	"DOVE"	"PALOMA"	"HOOK"	"GANCHO"
"BETRAYAL"	"TRAICIÓN"	"DRAIN"	"DESAGÜE"	"HORSE"	"CABALLO"
"BEVERAGE"	"BEBIDA"	"DRONE"	"ZÁNGANO"	"HOUND"	"SABUESO"
"BILE"	"HIEL"	"DROUGHT"	"SEQUÍA"	"HOUSE"	"CASA"
"BLANKET"	"MANTA"	"DUSK"	"ANOCHECER"	"HUBRIS"	"SOBERBIA"
"BLEACH"	"LEJIA"	"EFFORT"	"AHINCO"	"HUNCH"	"CORAZONADA"
"BLIZZARD"	"VENTISCA"	"EGG"	"HUEVO"	"HUT"	"CABAÑA"
"BLOOD"	"SANGRE"	"EQUITY"	"EQUIDAD"	"ICE"	"HIELO"
"BONE"	"HUESO"	"EVE"	"VÍSPERA"	"JOKE"	"BROMA"
"BONFIRE"	"HOGUERA"	"EXIT"	"SALIDA"	"JOY"	"ALEGRÍA"
"BREAD"	"PAN"	"EYE"	"OJO"	"JUNK"	"PORQUERIA"
"BRIDE"	"NOVIA"	"EYELASH"	"PESTAÑA"	"KICK"	"PATADA"
"BRIDGE"	"PUENTE"	"FACE_SKIN"	"TEZ"	"KID"	"CHICO"
"BROOM"	"ESCOBA"	"FEAR"	"MIEDO"	"KING"	"REY"
"BUCKET"	"CUBO"	"FEATHER"	"PLUMA"	"KISS"	"BESO"
"BUGLE"	"CLARIN"	"FISH"	"PEZ"	"KITE"	"COMETA"
"BUZZING"	"ZUMBIDO"	"FLARE"	"BENGALA"	"KNIFE"	"CUCHILLO"
"CANVAS"	"LIENZO"	"FLOOR"	"SUELO"	"LANDSCAPE"	"PAISAJE"
"CAR"	"COCHE"	"FLY"	"VOLAR"	"LANTERN"	"FAROL"
"CATCH"	"COGER"	"FOG"	"NIEBLA"	"LARCENY"	"RATERÍA"
"CATTLE_HEAD"	"RES"	"FOOD"	"COMIDA"	"LARD"	"MANTECA"
"CEILING"	"TECHO"	"FOOT"	"PIE"	"LAUGHTER"	"RISA"
"CHAIR"	"SILLA"	"FORK"	"TENEDOR"	"LEECH"	"SANGUIJUELA"
"CHALLENGE"	"DESAFÍO"	"FOWL"	"AVE"	"LIGHT"	"LUZ"
"CHEESE"	"QUESO"	"FROST"	"ESCARCHA"	"LIME"	"CAL"
"CHESS"	"AJEDREZ"	"FROTH"	"ESPUMA"	"LIPS"	"LABIOS"
"CHILD"	"NIÑO"	"GAP"	"HUELGO"	"LONGING"	"ANHELO"
"CHUNK"	"CACHO"	"GARBAGE"	"BASURA"	"MAN"	"HOMBRE"
"CLOTHES"	"ROPA"	"GARLIC"	"AJO"	"MARE"	"YEGUA"
"CLOUD"	"NUBE"	"GINGER"	"JENGIBRE"	"MARROW"	"TUÉTANO"
"COAT"	"ABRIGO"	"GLUTTONY"	"GULA"	"MARSH"	"MARISMA"
"COBBLESTONE"	"ADOQUÍN"	"GOODNESS"	"BONDAD"	"MATRESS"	"COLCHÓN"
"COBWEB"	"TELARAÑA"	"GRASS"	"CÉSPED"	"MERLON"	"ALMENA"
"COFFIN"	"ATAUD"	"GREED"	"CODICIA"	"MILK"	"LECHE"
"COLESLAW"	"REPOLLO"	"GROOM"	"NOVIO"	"MIRE"	"LODO"
"COMPASS"	"BRÚJULA"	"GYPSY"	"GITANO"	"MIRROR"	"ESPEJO"
"CONCOCTION"	"PÓCIMA"	"GYROSCOPE"	"PEONZA"	"MOAT"	"FOSO"
"CORN"	"MAÍZ"	"HAIR"	"PELO"	"MOON"	"LUNA"
"CORN_EAR"	"MAZORCA"	"HAM"	"JAMON"	"MOOR"	"CIÉNAGA"
"CRAB"	"CANGREJO"	"HAT"	"SOMBRERO"	"MORTAR"	"ARGAMASA"

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"MOTHERPEARL"	"NÁCAR"	"SHIP"	"NAVE"	"TWEEZERS"	"PINZAS"
"MUCK"	"FANGO"	"SHRED"	"JIRÓN"	"TWILIGHT"	"CREPÚSCULO"
"MUSK"	"ALMIZCLE"	"SHRIMP"	"GAMBA"	"UFO"	"OVNI"
"NEEDLE"	"AGUJA"	"SHROUD"	"SUDARIO"	"UMBRELLA"	"PARAGUAS"
"NET"	"RED"	"SICKLE"	"HOZ"	"VEAL"	"TERNERA"
"NOON"	"MEDIODÍA"	"SILL"	"ALFEIZAR"	"VINE"	"VID"
"NUN"	"MONJA"	"SIN"	"PECADO"	"VOICE"	"VOZ"
"PAN"	"SARTÉN"	"SKETCH"	"ESBOZO"	"WAKE"	"ESTELA"
"PASSER_BY"	"TRANSEUNTE"	"SKIN"	"PIEL"	"WALL"	"PARED"
"PATH"	"CAMINO"	"SKIRMISH"	"ESCARAMUZA"	"WAR"	"GUERRA"
"PEACE"	"PAZ"	"SKIRT"	"FALDA"	"WATER"	"AGUA"
"PEBBLE"	"GUIJARRO"	"SKUNK"	"MOFETA"	"WEAPON"	"ARMA"
"PENGUIN"	"PINGUINO"	"SKY"	"CIELO"	"WEDGE"	"CUÑA"
"PIE"	"PASTEL"	"SKYLIGHT"	"CLARABOYA"	"WEED"	"HIERBA"
"PIECE"	"TROZO"	"SLED"	"TRINEO"	"WEIGHT"	"PESO"
"PIETY"	"PIEDAD"	"SLOTH"	"PEREZOSO"	"WHEEL"	"RUEDA"
"PIGSTY"	"POCILGA"	"SMILE"	"SONRISA"	"WHIP"	"LÁTIGO"
"PILLOW"	"ALMOHADA"	"SMIRK"	"MUECA"	"WHOOSH"	"SOPLIDO"
"PIPE"	"TUBERÍA"	"SNOW"	"NIEVE"	"WICKER"	"MIMBRE"
"PITY"	"PENA"	"SOOTHSAYER"	"ADIVINO"	"WILL"	"VOLUNTAD"
"PLUME"	"PENACHO"	"SOUL"	"ALMA"	"WIND"	"VIENTO"
"PUDDLE"	"CHARCO"	"SPHYNX"	"ESFINGE"	"WINE"	"VINO"
"QUEEN"	"REINA"	"SPIDER"	"ARAÑA"	"WIZARD"	"MAGO"
"RAG"	"HARAPO"	"SPOON"	"CUCHARA"	"WOMAN"	"MUJER"
"RAILROAD"	"FERROCARRIL"	"SPRING"	"MANANTIAL"	"WORD"	"PALABRA"
"RAIN"	"LLUVIA"	"SQUIRE"	"PAJE"	"WRATH"	"IRA"
"RASPBERRY"	"FRAMBUESA"	"SQUIRREL"	"ARDILLA"	"YOKE"	"YUGO"
"RIDDLE"	"ACERTIJO"	"STAR"	"ESTRELLA"	"YOLK"	"YEMA"
"RIGMAROLE"	"EMBROLLO"	"STARDUST"	"NEBULOSA"	"YOUTH"	"JUVENTUD"
"RING"	"ANILLO"	"STAY"	"QUEDARSE"	"ZIPPER"	"CREMALLERA"
"ROOF"	"TEJADO"	"STONE"	"PIEDRA"		
"ROTTEN"	"PODRIDO"	"STORK"	"CIGÜEÑA"		
"RYE"	"CENTENO"	"STRAWBERRY"	"FRESA"		
"SAND"	"ARENA"	"SUGAR"	"AZÚCAR"		
"SCAFFOLDING"	"ANDAMIO"	"SWAMP"	"PANTANO"		
"SCARF"	"BUFANDA"	"SWORD"	"ESPADA"		
"SCAVENGER"	"CARROÑERO"	"TABLE"	"MESA"		
"SCENT"	"RASTRO"	"TAPESTRY"	"TAPIZ"		
"SCISSORS"	"TIJERAS"	"THIRST"	"SED"		
"SCOURGE"	"AZOTE"	"THUG"	"MATÓN"		
"SCYTHE"	"GUADAÑA"	"TIDE"	"MAREA"		
"SEA"	"MAR"	"TILE"	"AZULEJO"		
"SEEDLING"	"ESQUEJE"	"TORCH"	"LINTERNA"		
"SEGMENT"	"GAJO"	"TOY"	"JUGUETE"		
"SHADOW"	"SOMBRA"	"TRAIL"	"SENDA"		
"SHAME"	"VERGÜENZA"	"TREE"	"ARBOL"		
"SHEAR"	"CIZALLA"	"TRUCK"	"CAMIÓN"		
"SHEET"	"SABANA"	"TUG_BOAT"	"REMOLCADOR"		
"SHELL"	"CONCHA"	"TURLAP"	"YUTE"		
"SHELTER"	"REFUGIO"	"TUSK"	"COLMILLO"		

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Table 3.-Action words in English alphabetical order .

"ANNIHILATE"	"ANIKUILAR"	"GLANCE"	"OJEAR"	"PRUNE"	"PODAR"
"APPLY"	"SOLICITAR"	"GLEAM"	"BRILLAR"	"PURR"	"RONRONEAR"
"ARGUE"	"ARGUIR"	"GLEAN"	"DEDUCIR"	"RAISE"	"SUBIR"
"AVOID"	"EVITAR"	"GLIDE"	"PLANEAR"	"READ"	"LEER"
"BAKE"	"HORNEAR"	"GRAB"	"ASIR"	"RECOIL"	"RETROCEDER"
"BARGAIN"	"REGATEAR"	"GRIMACE"	"GESTICULAR"	"RETROFIT"	"ACTUALIZAR"
"BEAR"	"SOPORTAR"	"GROW"	"CRECER"	"RISE"	"SUBIRSE"
"BEG"	"ROGAR"	"GROWL"	"GRUÑIR"	"ROAST"	"ASAR"
"BEHAVE"	"PORTARSE"	"HARRAS"	"ACOSAR"	"RUN"	"CORRER"
"BELIEVE"	"CREER"	"HATCH"	"EMPOLLAR"	"SAW"	"SERRAR"
"BEND"	"DOBLAR"	"HAUL"	"REMOLCAR"	"SCORN"	"DESDEÑAR"
"BEREAVE"	"PRIVAR_DE"	"HEAR"	"OÍR"	"SCRATCH"	"ARAÑAR"
"BET "	"APOSTAR"	"HEED"	"ATENDER"	"SCRUTINIZE"	"ESCUDRIÑAR"
"BILLOW"	"ONDULAR"	"HELP"	"AYUDAR"	"SEARCH"	"BUSCAR"
"BITE"	"MORDER"	"HESITATE"	"TITUBEAR"	"SEE"	"VER"
"BOIL"	"HERVIR"	"HIDE"	"ESCONDER"	"SEW"	"COSER"
"BOUNCE"	"BOTAR"	"HOLD"	"SUJETAR"	"SHRIEK"	"CHILLAR"
"BREAK"	"ROMPER"	"HOWL"	"AULLAR"	"SING"	"CANTAR"
"BRING"	"TRAER"	"HUM"	"TARAREAR"	"SLANDER"	"CALUMNIAR"
"CARRY"	"PORTAR"	"HUSTLE"	"TIMAR"	"SLEEP"	"DORMIR"
"CHEAT"	"ENGAÑAR"	"INPUT"	"INTRODUCIR"	"SMELL"	"OLER"
"CHOOSE"	"ELEGIR"	"ITCH"	"ESCOCER"	"SOAR"	"ELEVARSE"
"CLAP"	"APLAUDIR"	"ITCH_FOR"	"ANSIAR"	"SQUANDER"	"MALGASTAR"
"COAX"	"ENGATUSAR"	"JINX"	"GAFAR"	"STAPLE"	"GRAPAR"
"CONCEAL"	"OCULTAR"	"KILL"	"MATAR"	"STING"	"PICAR"
"COUNTERFEIT"	"FALSIFICAR"	"KNOW"	"SABER"	"STINK"	"APESTAR"
"COUGH"	"TOSER"	"LAUGH"	"REIR"	"STROLL"	"PASEAR"
"CRAWL"	"GATEAR"	"LAY"	"YACER"	"STUFF"	"RELLENAR"
"CUT_OUT"	"RECORTAR"	"LEAD"	"GUIAR"	"SUE"	"DEMANDAR"
"DARE"	"OSAR"	"LIE"	"TUMBARSE"	"SWINDLE"	"ESTAFAR"
"DAZZLE"	"DESLUMBRAR"	"LIFT"	"LEVANTAR"	"TAKE"	"LLEVAR"
"DEMAND"	"EXIGIR"	"LIKE"	"GUSTAR"	"TASTE"	"DEGUSTAR"
"DIG"	"CAVAR"	"LOOK_OUT"	"VIGILAR"	"TEAR"	"RASGAR"
"DRAW"	"EXTRAER"	"LOOT"	"SAQUEAR"	"THINK"	"PENSAR"
"DREAM"	"SOÑAR"	"LOVE"	"AMAR"	"THROB"	"LATIR"
"DRINK"	"BEBER"	"LURE"	"ATRAER"	"TRAP"	"ATRAPAR"
"DROOL"	"BABEAR"	"LURK"	"ACECHAR"	"TWINKLE"	"TITILAR"
"DROWN"	"AHOGAR"	"MEET"	"REUNIRSE"	"TWITCH"	"CRISPARSE"
"EAT"	"COMER"	"MOAN"	"GEMIR"	"UNDERSTAND"	"COMPRENDER"
"EAVESDROP"	"FISGAR"	"MURDER"	"ASESINAR"	"VOTE"	"VOTAR"
"FALL_DOWN"	"CAERSE"	"NEGLECT"	"DESCUIDAR"	"WAIT"	"ESPERAR"
"FATHOM"	"DESENTRAÑAR"	"PEEP"	"ATISBAR"	"WALK"	"ANDAR"
"FETCH"	"TRAER_AQUI"	"PICK_UP"	"RECOGER"	"WANT"	"QUERER"
"FIND_OUT"	"AVERIGUAR"	"PINCH"	"PELLIZCAR"	"WATCH"	"OBSERVAR"
"FIND"	"ENCONTRAR"	"PLAY"	"JUGAR"	"WHINE"	"GIMOTEAR"
"FLATTER"	"ADULAR"	"PLEAD"	"SUPLICAR"	"WHISPER"	"SUSURRAR"
"FLOOD"	"INUNDAR"	"PRETEND"	"FINGIR"	"WRINKLE"	"ARRUGAR"
"GATHER"	"REUNIR"	"PROWL"	"MERODEAR"	"YELP"	"GAÑIR"

2.- Table Layout, Structure & Contents.

There is no secret about the table layout in this design: words were added as I would think of them without any particular rhyme or reason – more or less prompted by the task and by the previously entered words as they occurred to me.

Obviously two tables exist, one holding the English words and another with the Spanish words. The table entries are matched on both tables, thus once the word is found in one we apply the same entry number to the other table directly – which expedites the retrieval of the translated word.

To accelerate the search process, there are two auxiliary tables –or word length table, WLT – containing the word lengths for all table entries. The search algorithm begins by looking for matching first characters, and if so a secondary search is made for the rest of the word letters to also match those in the target word in ALPHA.

The last character is marked for the algorithm to know the end of the word. It also holds the word-type code, used by the selective enumeration functions - which do not search and therefore access the words tables directly.

As mentioned earlier in the manual, punctuation signs have special meaning for some Spanish words. They represent the orthographic accents (period to the right) and special characters “ñ” (comma to the right) and “ü” (colon to the right). Note that these are only shown in the LCD but not in ALPHA, therefore you should write the standard characters for Spanish word searches.

Flag Usage as Dashboard.

Lastly, another nice feature of the dictionary is the dynamic setting of the user flag corresponding to the language and word type, as follows:

- UF 00: Set if English, cleared if Spanish
- UF 01: Nouns
- UF 02: Others (adjectives, conjunction, adverbs, prepositions, etc.)
- UF 03: Verbs

Search Engine.

This is the real heart of the module – fast enough for the amount of data it definitely beats looking for words by hand in a real dictionary. The search routine is very similar to those in the OS used to look for function names in the different plug-in modules, and yet it's different enough that it wasn't possible to use any OS calls.

For starters, the word lengths may be up to 12 characters, which involve both registers M and N in ALPHA. This alone would call for dedicated code, and then you need to add to the mix the fact that there must be a way to tell similar words apart, say “POCO” and “POCOS”. This requires a double contingency to happen: for a complete match there must be the last letter in the ROM table, ***and*** the last letter in ALPHA.

The search engine does a sequential compare of the words in the table with the text in ALPHA, keeping tabs with the cumulative lengths and the indexes of those words already checked. When the match is found the resulting index is used as offset from the table start in the other language table – thus both tables must be properly aligned (i.e. the words have the same index number in both tables).

This explains why both can't be arranged alphabetically at the same time, which in turn made me decide for a non-alphabetical arrangement in both tables. This doesn't have any negative impact in the performance, which depends on how many words exist before the target one with the same first later, as well as how many of them also have the same subsequent letters – very random to begin with.

Spanish-English Dictionary Module

Complete Dictionary contents sorted by actual word index.

"AZUL"	1	"BLUE"	"ESCASO"	52	"SCARCE"	"SUSURRAR"	103	"WHISPER"
"VERDE"	2	"GREEN"	"RARO"	53	"WEIRD"	"CANTAR"	104	"SING"
"ROJO"	3	"RED"	"EXTRANJERO"	54	"FOREIGNER"	"DORMIR"	105	"SLEEP"
"AMARILLO"	4	"YELLOW"	"MIEDO"	55	"FEAR"	"PENSAR"	106	"THINK"
"NARANJA"	5	"ORANGE"	"IRA"	56	"WRATH"	"VOLAR"	107	"FLY"
"MARRON"	6	"BROWN"	"ODIO"	57	"HATRED"	"INTRODUCIR"	108	"INPUT"
"NEGRO"	7	"BLACK"	"ALEGRIA"	58	"JOY"	"BOTAR"	109	"BOUNCE"
"BLANCO"	8	"WHITE"	"CORONA"	59	"CROWN"	"VOTAR"	110	"VOTE"
"CUCHILLO"	9	"KNIFE"	"REY"	60	"KING"	"CORRER"	111	"RUN"
"CUCHARA"	10	"SPOON"	"REINA"	61	"QUEEN"	"ANDAR"	112	"WALK"
"TENEDOR"	11	"FORK"	"HUESO"	62	"BONE"	"PASEAR"	113	"STROLL"
"CASA"	12	"HOUSE"	"PIEDRA"	63	"STONE"	"REUNIRSE"	114	"MEET"
"COCHE"	13	"CAR"	"CUBO"	64	"BUCKET"	"ENCONTRAR"	115	"FIND"
"MESA"	14	"TABLE"	"ESPADA"	65	"SWORD"	"REUNIR"	116	"GATHER"
"SILLA"	15	"CHAIR"	"PEZ"	66	"FISH"	"BUSCAR"	117	"SEARCH"
"TEJADO"	16	"ROOF"	"AJEDREZ"	67	"CHESS"	"EVITAR"	118	"AVOID"
"SUELO"	17	"FLOOR"	"COMIDA"	68	"FOOD"	"SENSATO"	119	"SENSIBLE"
"TECHO"	18	"CEILING"	"SOMERO"	69	"SHALLOW"	"SENSIBLE"	120	"SENSITIVE"
"PARED"	19	"WALL"	"HONDO"	70	"DEEP"	"DEGUSTAR"	121	"TASTE"
"AUSENTE"	20	"ALOOF"	"CABALLO"	71	"HORSE"	"GUSTAR"	122	"LIKE"
"TRISTE"	21	"SAD"	"YEGUA"	72	"MARE"	"SUBIR"	123	"RAISE"
"FELIZ"	22	"HAPPY"	"YUGO"	73	"YOKE"	"SUBIRSE"	124	"RISE"
"LOCO"	23	"CRAZY"	"BROMA"	74	"JOKE"	"YACER"	125	"LAY"
"TONTA"	24	"FOOL"	"JUGUETE"	75	"TOY"	"TUMBARSE"	126	"LIE"
"MANTA"	25	"BLANKET"	"GUERRA"	76	"WAR"	"ENGAÑAR"	127	"CHEAT"
"ALMOHADADA"	26	"PILLOW"	"GLORIA"	77	"HEAVEN"	"MATAR"	128	"KILL"
"SABANA"	27	"SHEET"	"SENSIBLERO"	78	"MAUDLIN"	"ASESINAR"	129	"MURDER"
"CAMA"	28	"BED"	"AURORA"	79	"DAWN"	"AYUDAR"	130	"HELP"
"COLCHON"	29	"MATTRESS"	"RASTRO"	80	"SCENT"	"AMAR"	131	"LOVE"
"LECHE"	30	"MILK"	"SENDA"	81	"TRAIL"	"QUEDARSE"	132	"STAY"
"AGUA"	31	"WATER"	"CAMINO"	82	"PATH"	"QUERER"	133	"WANT"
"VINO"	32	"WINE"	"AVIÓN"	83	"AIRPLANE"	"COMPRENDER"	134	"UNDERSTAND"
"DULCE"	33	"SWEET"	"CAMIÓN"	84	"TRUCK"	"SABER"	135	"KNOW"
"AMARGO"	34	"BITTER"	"ESPEJO"	85	"MIRROR"	"JUGAR"	136	"PLAY"
"DURO"	35	"HARD"	"HOZ"	86	"SICKLE"	"ABRIGO"	137	"COAT"
"ASPERO"	36	"HARSH"	"GUADAÑA"	87	"SCYTHE"	"CORTO"	138	"SHORT"
"SALADO"	37	"SALTY"	"PUENTE"	88	"BRIDGE"	"LARGO"	139	"LONG"
"FRIO"	38	"COLD"	"ENTORNADO"	89	"AJAR"	"ALTO"	140	"TALL"
"CALIENTE"	39	"HOT"	"CURSI"	90	"CORNY"	"BAJO"	141	"LOW"
"ARBOL"	40	"TREE"	"ARMA"	91	"WEAPON"	"GUIAR"	142	"LEAD"
"CESPED"	41	"GRASS"	"LÁTIGO"	92	"WHIP"	"CIEGO"	143	"BLIND"
"HIERBA"	42	"WEED"	"CAPRICHOSO"	93	"CRAVING"	"MUDO"	144	"MUTE"
"SUAVE"	43	"SMOOTH"	"ANOCHECER"	94	"DUSK"	"FOSO"	145	"MOAT"
"BLANDO"	44	"SOFT"	"HOGUERA"	95	"BONFIRE"	"PALOMA"	146	"DOVE"
"FALDA"	45	"SKIRT"	"TIJERAS"	96	"SCISSORS"	"FAROL"	147	"LANTERN"
"NUBE"	46	"CLOUD"	"ALEATORIO"	97	"RANDOM"	"LINTERNA"	148	"TORCH"
"NIEBLA"	47	"FOG"	"ESFINGE"	98	"SPHYNX"	"TOSER"	149	"COUGH"
"BRUMA"	48	"HAZE"	"NAVE"	99	"SHIP"	"COSER"	150	"SEW"
"LLUVIA"	49	"RAIN"	"COLMILLO"	100	"TUSK"	"SERRAR"	151	"SAW"
"NIEVE"	50	"SNOW"	"PLANEAR"	101	"GLIDE"	"COGER"	152	"CATCH"
"CIELO"	51	"SKY"	"ELEVARSE"	102	"SOAR"	"ASIR"	153	"GRAB"

Spanish-English Dictionary Module

"SUJETAR"	154	"HOLD"	"CIGUEÑA"	206	"STORK"	"FINGIR"	258	"PRETEND"
"ATRAPAR"	155	"TRAP"	"FUERTE"	207	"STRONG"	"MEDIODÍA"	259	"NOON"
"CENTENO"	156	"RYE"	"APESTAR"	208	"STINK"	"BRÚJULA"	260	"COMPASS"
"COMETA"	157	"KITE"	"MOFETA"	209	"SKUNK"	"MERODEAR"	261	"PROWL"
"NOVIA"	158	"BRIDE"	"PIEL"	210	"SKIN"	"GATEAR"	262	"CRAWL"
"NOVIO"	159	"GROOM"	"DÉBIL"	211	"WEAK"	"TITUBEAR"	263	"HESITATE"
"ESCOBA"	160	"BROOM"	"ENCLENQUE"	212	"FEEBLE"	"POCOS"	264	"FEW"
"AGUJERO"	161	"HOLE"	"AJÓ"	213	"GARLIC"	"MOJADO"	265	"WET"
"HUECO"	162	"HOLLOW"	"QUIZÁ"	214	"PERHAPS"	"POCO"	266	"LITTLE"
"HUELGO"	163	"GAP"	"TAL_VEZ"	215	"MAYBE"	"CAVAR"	267	"DIG"
"LUNA"	164	"MOON"	"AUNQUE"	216	"ALTHOUGH"	"ATAUD"	268	"COFFIN"
"SAGAZ"	165	"SAGACIOUS"	"PESE_A"	217	"DESPITE"	"CORAZONADA"	269	"HUNCH"
"LISTO"	166	"CLEVER"	"CONTRA"	218	"AGAINST"	"LENTO"	270	"SLOW"
"REMOLCAR"	167	"HAUL"	"ENTRE"	219	"BETWEEN"	"ARDILLA"	271	"SQUIRREL"
"MAREA"	168	"TIDE"	"SOBRE"	220	"ABOVE"	"MAGO"	272	"WIZARD"
"ALMA"	169	"SOUL"	"OJO"	221	"EYE"	"INUNDAR"	273	"FLOOD"
"EQUIDAD"	170	"EQUITY"	"PIE"	222	"FOOT"	"LABIOS"	274	"LIPS"
"HIEL"	171	"BILE"	"PASTEL"	223	"PIE"	"PELLIZCAR"	275	"PINCH"
"PAN"	172	"BREAD"	"LUZ"	224	"LIGHT"	"PINZAS"	276	"TWEEZERS"
"SARTÉN"	173	"PAN"	"SOMBRA"	225	"SHADOW"	"ROPA"	277	"CLOTHES"
"RUEDA"	174	"WHEEL"	"AVERIGUAR"	226	"FIND OUT"	"BONDAD"	278	"GOODNESS"
"ABEJA"	175	"BEE"	"PANAL"	227	"HONEYCOMB"	"TERCO"	279	"HARD_HEADED"
"JAMÓN"	176	"HAM"	"TITILAR"	228	"TWINKLE"	"PALABRA"	280	"WORD"
"CREMALLERA"	177	"ZIPPER"	"AVE"	229	"FOWL"	"DESAFÍO"	281	"CHALLENGE"
"FERROCARRIL"	178	"RAILROAD"	"ESTELA"	230	"WAKE"	"OSAR"	282	"DARE"
"TIERNO"	179	"TENDER"	"TAIMADO"	231	"SLY"	"PORTARSE"	283	"BEHAVE"
"FÁCIL"	180	"EASY"	"SUDARIO"	232	"SHROUD"	"COLMENA"	284	"BEEHIVE"
"CANSADO"	181	"TIRED"	"REGATEAR"	233	"BARGAIN"	"ANDAMIO"	285	"SCAFFOLDING"
"MUERTO"	182	"DEAD"	"YUTE"	234	"TURLAP"	"ACTUALIZAR"	286	"RETROFIT"
"MONJA"	183	"NUN"	"CHILLAR"	235	"SHRIEK"	"QUESO"	287	"CHEESE"
"BUFANDA"	184	"SCARF"	"MATÓN"	236	"THUG"	"NÁCAR"	288	"MOTHERPEARL"
"ALFEIZAR"	185	"SILL"	"JIRÓN"	237	"SHRED"	"PROBABLE"	289	"LIKELY"
"FISGAR"	186	"EAVESDROP"	"VÍSPERA"	238	"EVE"	"MAZORCA"	290	"CORN_EAR"
"MANANTIAL"	187	"SPRING"	"ANODINO"	239	"INANE"	"CREPUSCULO"	291	"TWILIGHT"
"VOLUNTAD"	188	"WILL"	"SABUESO"	240	"HOUND"	"ESPERAR"	292	"WAIT"
"HIELO"	189	"ICE"	"REÍR"	241	"LAUGH"	"ALMENA"	293	"MERLON"
"HELADO"	190	"FROZEN"	"SOÑAR"	242	"DREAM"	"GORDO"	294	"FAT"
"MUJER"	191	"WOMAN"	"RISA"	243	"LAUGHTER"	"NEGACIÓN"	295	"DENIAL"
"ESCONDER"	192	"HIDE"	"SONRISA"	244	"SMILE"	"ESPESO"	296	"THICK"
"OCULTAR"	193	"CONCEAL"	"FEO"	245	"UGLY"	"DELGADO"	297	"THIN"
"CAPCIOSO"	194	"SNIDE"	"BUENO"	246	"GOOD"	"FLACO"	298	"SKINNY"
"CARGANTE"	195	"OBNOXIOUS"	"MALO"	247	"BAD"	"ESBELTO"	299	"SLENDER"
"AMABLE"	196	"KIND"	"MURCIÉLAGO"	248	"BAT"	"TROZO"	300	"PIECE"
"RETROCEDER"	197	"RECOIL"	"VER"	249	"SEE"	"CACHO"	301	"CHUNK"
"CRISPARSE"	198	"TWITCH"	"MAR"	250	"SEA"	"PAZ"	302	"PEACE"
"PEONZA"	199	"GYROSCOPE"	"OÍR"	251	"HEAR"	"HARAPO"	303	"RAG"
"FRESA"	200	"STRAWBERRY"	"AQUÍ"	252	"HERE"	"GUIJARRO"	304	"PEBBLE"
"FRAMBUESA"	201	"RASPBERRY"	"PESTAÑA"	253	"EYELASH"	"CHARCO"	305	"PUDDLE"
"MANTECA"	202	"LARD"	"GRAPAR"	254	"STAPLE"	"OVNI"	306	"UFO"
"SANGUIJUELA"	203	"LEECH"	"ROMPER"	255	"BREAK"	"NIÑO"	308	"CHILD"
"LEJÍA"	204	"BLEACH"	"RASGAR"	256	"TEAR"	"JUVENTUD"	309	"YOUTH"
"PARAGUAS"	205	"UMBRELLA"	"FALSO"	257	"FAKE"	"HOMBRE"	310	"MAN"

Spanish-English Dictionary Module

"JÓVEN"	311	"YOUNG"	"PAISAJE"	363	"LANDSCAPE"	"BABEAR"	414	"DROOL"
"VIEJO"	312	"OLD"	"CIZAÑA"	364	"DISCORD"	"ARAÑA"	415	"SPIDER"
"VOZ"	313	"VOICE"	"TRAICIÓN"	365	"BETRAYAL"	"CALUMNIAR"	416	"SLANDER"
"RISUEÑA"	314	"CHEERFUL"	"OBSERVAR"	366	"WATCH"	"RIZO"	417	"CURL"
"LEVANTAR"	315	"LIFT"	"VIGILAR"	367	"LOOK_OUT"	"CONCHA"	418	"SHELL"
"HERVIR"	316	"BOIL"	"ANSIAR"	368	"ITCH_FOR"	"TRINEO"	419	"SLED"
"PATADA"	317	"KICK"	"EXIGIR"	369	"DEMAND"	"INCLINADO"	420	"SLANTED"
"CAERSE"	318	"FALL_DOWN"	"DEMANDAR"	370	"SUE"	"MÁS_ALLÁ"	421	"BEYOND"
"OJEAR"	319	"GLANCE"	"SEQUÍA"	371	"DROUGHT"	"ASTAS"	422	"ANTLERS"
"CIÉNAGA"	320	"MOOR"	"ESTAFAR"	372	"SWINDLE"	"CABAÑA"	423	"HUT"
"BENGALA"	321	"FLARE"	"TIMAR"	373	"HUSTLE"	"SOMBRERO"	424	"HAT"
"DOBLAR"	322	"BEND"	"ENGAÑO"	374	"HOAX"	"SOPORTAR"	425	"BEAR"
"MARISMA"	323	"MARSH"	"AZOTE"	375	"SCOURGE"	"BARBA"	426	"BEARD"
"APOSTAR"	324	"BET"	"RELLENAR"	376	"STUFF"	"EMPOLLAR"	427	"HATCH"
"EXTRAER"	325	"DRAW"	"CIZALLA"	377	"SHEAR"	"ARAÑAR"	428	"SCRATCH"
"AHOGAR"	326	"DROWN"	"TRAVIESO"	378	"MISCHIEVOUS"	"ESCARABAJO"	429	"BEETLE"
"APLAUDIR"	327	"CLAP"	"ADOQUÍN"	379	"COBBLESTONE"	"ELEGIR"	430	"CHOOSE"
"ESCOCER"	328	"ITCH"	"ESPUMA"	380	"FROTH"	"PAJE"	431	"SQUIRE"
"MORDER"	329	"BITE"	"TELARAÑA"	381	"COBWEB"	"ANTAÑO"	432	"YORE"
"PICAR"	330	"STING"	"LACIO"	382	"LANK"	"RES"	433	"CATTLE_HEAD"
"CREER"	331	"BELIEVE"	"ESBOZO"	383	"SKETCH"	"RED"	434	"NET"
"SALIDA"	332	"EXIT"	"ESQUEJE"	384	"SEEDLING"	"POCILGA"	435	"PIGSTY"
"VIENTO"	333	"WIND"	"TUÉTANO"	385	"MARROW"	"GEMIR"	436	"MOAN"
"BISAGRA"	334	"HINGE"	"PRIVAR_DE"	386	"BEREAVE"	"ATISBAR"	437	"PEEP"
"RECOGER"	335	"PICK_UP"	"JUNTO_A"	387	"BESIDE"	"LATIR"	438	"THROB"
"PORTAR"	336	"CARRY"	"ADEMÁS"	388	"BESIDES"	"CLARABOYA"	439	"SKYLIGHT"
"LLEVAR"	337	"TAKE"	"SOLICITAR"	389	"APPLY"	"GITANO"	440	"GYPSY"
"TRAER_AQUÍ"	338	"FETCH"	"QUEBRADIZO"	390	"BRITTLE"	"CABEZOTA"	441	"STUBBORN"
"TRAER"	339	"BRING"	"YEMA"	391	"YOLK"	"CON"	442	"WITH"
"HORNEAR"	340	"BAKE"	"MAÍZ"	392	"CORN"	"SED"	443	"THIRST"
"ASAR"	341	"ROAST"	"AULLAR"	393	"HOWL"	"A_TRAVÉS"	444	"ACROSS"
"OLER"	342	"SMELL"	"GAÑIR"	394	"YELP"	"GANCHO"	445	"HOOK"
"VID"	343	"VINE"	"GIMOTEAR"	395	"WHINE"	"ANILLO"	446	"RING"
"REMOLCADOR"	344	"TUG_BOAT"	"GAMBA"	396	"SHRIMP"	"PESO"	447	"WEIGHT"
"GAFAR"	345	"JINX"	"ALMIZCLE"	397	"MUSK"	"PANTANO"	448	"SWAMP"
"PEZUÑA"	346	"HOOF"	"HUEVO"	398	"EGG"	"ARENA"	449	"SAND"
"ONDULAR"	347	"BILLOW"	"GAJO"	399	"SEGMENT"	"SUPLICAR"	450	"PLEAD"
"PENACHO"	348	"PLUME"	"CAPUCHA"	400	"HOOD"	"PORQUERÍA"	451	"JUNK"
"FUELLE"	349	"BELLOWS"	"BESO"	402	"KISS"	"CANGREJO"	452	"CRAB"
"DEBAJO"	350	"BENEATH"	"CRISOL"	403	"CRUCIBLE"	"ACOSAR"	453	"HARRAS"
"ENGATUSAR"	352	"COAX"	"YUNQUE"	404	"ANVIL"	"PECADO"	454	"SIN"
"AGOTADO"	353	"WEARY"	"ZÁNGANO"	405	"DRONE"	"SIN"	455	"WITHOUT"
"ESPALDA"	354	"BACK"	"PEREZOSO"	406	"SLOTH"	"BASURA"	456	"GARBAGE"
"RATERÍA"	355	"LARCENY"	"OXIDADO"	407	"RUSTED"	"BAZOFIA"	457	"HOGWASH"
"CUNA"	356	"CRIB"	"TUBERÍA"	408	"PIPE"	"PODRIDO"	458	"ROTTEN"
"CUÑA"	357	"WEDGE"	"TUBERIA"	408	"PIPE"	"PENA"	459	"PITY"
"CLARÍN"	358	"BUGLE"	"VENTISCA"	409	"BLIZZARD"	"VERGÜENZA"	460	"SHAME"
"ADIVINO"	351	"SOOTHSAYER"	"JENGIBRE"	401	"GINGER"	"PIEDAD"	461	"PIETY"
"SANGRE"	359	"BLOOD"	"LIENZO"	410	"CANVAS"	"ANIQUILAR"	462	"ANNIHILATE"
"FANGO"	360	"MUCK"	"TAPIZ"	411	"TAPESTRY"	"ESCARAMUZA"	463	"SKIRMISH"
"LODO"	361	"MIRE"	"MIMBRE"	412	"WICKER"	"PLUMA"	464	"FEATHER"
"AZULEJO"	362	"TILE"	"MALVADO"	413	"WICKED"	"GULA"	465	"GLUTTONY"

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"SOBERBIA"	466	"HUBRIS"	"ESTRELLA"	489	"STAR"	"DESDEÑAR"	512	"SCORN"
"ESCOMBROS"	467	"DEBRIS"	"SOPLIDO"	490	"WHOOSH"	"DESCUIDAR"	513	"NEGLECT"
"ROGAR"	468	"BEG"	"DESLUMBRAR"	491	"DAZZLE"	"ARRUGAR"	514	"WRINKLE"
"LEER"	469	"READ"	"BRILLAR"	492	"GLEAM"	"MOLESTO"	515	"NASTY"
"RECORTAR"	470	"CUT_OUT"	"DEDUCIR"	493	"GLEAN"	"ACECHAR"	516	"LURK"
"PODAR"	471	"PRUNE"	"ATENDER"	494	"HEED"	"GESTICULAR"	517	"GRIMACE"
"EMBROLLO"	472	"RIGMAROLE"	"NEBULOSA"	495	"STARDUST"	"MUECA"	518	"SMIRK"
"REPOLLO"	473	"COLESLAW"	"CODICIA"	496	"GREED"	"CARROÑERO"	519	"SCAVENGER"
"BEBIDA"	474	"BEVERAGE"	"ANHELO"	497	"LONGING"	"PINGÜES"	520	"COPIOUS"
"PÓCIMA"	475	"CONCOCTION"	"DESENTRAÑAR"	498	"FATHOM"	"PELO"	521	"HAIR"
"TEZ"	476	"FACE_SKIN"	"ESCUDRIÑAR"	499	"SCRUTINIZE"	"PINGÜINO"	522	"PENGUIN"
"SAQUEAR"	477	"LOOT"	"AHINCO"	500	"EFFORT"	"FALSIFICAR"	523	"COUNTERFEIT"
"CEBO"	480	"BAIT"	"ARGAMASA"	501	"MORTAR"	"AGUJA"	524	"NEEDLE"
"ATRAER"	481	"LURE"	"REFUGIO"	502	"SHELTER"	"PAJAR"	525	"HEystack"
"TRANSEUNTE"	482	"PASSER_BY"	"SALVACIÓN"	503	"DELIVERANCE"	"GUAPO"	526	"HANDSOME"
"ADULAR"	483	"FLATTER"	"ACERTIJO"	504	"RIDDLE"	"BELLO"	527	"BEAUTIFUL"
"CRECER"	484	"GROW"	"BIZCO"	507	"CROSS_EYED"	"COMER"	528	"EAT"
"GRUÑIR"	485	"GROWL"	"MEZQUINO"	508	"PETTY"	"BEBER"	529	"DRINK"
"TERNERA"	478	"VEAL"	"ENOJADIZO"	509	"GROUCHY"	"AZÚCAR"	530	"SUGAR"
"SEÑUELO"	479	"DECOY"	"INTRÉPIDO"	510	"DAUNTLESS"	"ARGÜIR"	531	"ARGUE"
"RONRONEAR"	486	"PURR"	"MALGASTAR"	505	"SQUANDER"	"DESAGÜE"	532	"DRAIN"
"ZUMBIDO"	487	"BUZZING"	"DE_REOJO"	506	"ASKANCE"	"CAL"	533	"LIME"
"TARAREAR"	488	"HUM"	"ESCARCHA"	511	"FROST"			

