

ðœ̄aí█β>█
pr█ mnō

ÑL_M ° L █

bjbjG=G= "çWçW_____ l£££££££áááá

Ã¢â€žâ€¢Å¶GGGGGGGÆööööööö\$ ¶ T ©£GGGGG©l££GG=111G:£G£GÆlGÆl&lÆ££ÆG L

á■üy■_ á@ÆEP0E_

_
El■ff■ff■ Using the Interface Scan Automatic HTML Help file generator

How to use the program:

HTML help files, as discussed in the previous article, are both useful and difficult to set up. In response to this, I wrote a program designed to obtain the classes, subroutines, functions, properties, enumerators and events from COM objects and prepare HTML help files.

The program in question requires that each public function, sub and property, each event and the project and classes have UNIQUE help context IDÆs. Without this, the results will NOT work properly. It is also strongly recommended that the help strings be filled in with meaningful descriptions. They will appear in the HTML help files produced.

Given this information being correct, when you run the program, you will be faced with a screen like this:

The two browse buttons will allow you to select the name of the dll you wish to scan. The program will suggest a name for the HTML help file based on the name of the program. This name must match the name of the HTML help file name in your program as defined in the property box shown below:

when you generate the HTML help file, you can then go to the directory you decided to put the HTML help components in and open the file as seen in the screen shot (the .hhp file).

If you have installed the HTML help workshop (found at [HYPERLINK "http://msdn.microsoft.com/library/default.asp?url=/library/en-us/htmlhelp/html/hwMicrosoftHTMLHelpDownloads.asp?frame=true"](http://msdn.microsoft.com/library/default.asp?url=/library/en-us/htmlhelp/html/hwMicrosoftHTMLHelpDownloads.asp?frame=true)
<http://msdn.microsoft.com/library/default.asp?url=/library/en-us/htmlhelp/html/hwMicrosoftHTMLHelpDownloads.asp?frame=true>
) then you will face a screen like this:

go to file|compile and you should get a result like you see on the right hand side of the above screen shot. Congratulations, youÆve compiled a

basic HTML help outline. If you open the .chm file indicated on the compile screen, you can see what it looks like.

What the program does:

The third article will describe how the program generates an XML outline based on the COM interfaces of your DLL. The fourth article will discuss the interactions between XML and XSL to produce the code outlines you see in the HTML help file.

2002, Donald Derrick

12_«[\ \ Q R Γ ■ ■ V
W
é
â
■■■■■

• ÷ ± _ • _ • ß • ■
X
ü
é
ä
à
í î ú ² _ • _____ • ■

² úñý





2 2 2 2 2 1Éhõõ/ õa=! " #Éá\$Éá% ! SDd<-22 _0

—
#_

A __ Çb _ ¥R_ (ËV

·A|^{H2} \hat{E} __yRDNn_qR_(\ddot{E} v

·A|^ ^H2Ê__ëPNG

IHDR5éZsRGB<TRIDATx^ø!1ù, Ívawb |c0?ää_ LíÑùü2TÉääûc

° a | [dBÖÍâ

Tüçç
*¶ùL

Eæi ─■

æçÅùm L° 1sYa _ ô□5ÄR>J C»²åu _ a?zP█ »cf«4+ @çú Ltf~\>"&C _ Vzç±ô±Lµ_█<█|©
TEP>ãN █ █EO█ / _ EÇrao█ °¥_ · P█c█a_█ ±GôO_ fr_█ ±l_ ~°
(c█€t_ ²oÃ²÷°a_█Do_ o²ÍiÅ_ » [ü F¥· iO█s ° «ßP█s█ a_ 7åÅ?>█a7ãGåO█ ¥² ?çÅ_ G#8█ 0
@çGöE÷oá ° ÑÿY²úM█
IO█_ Om L° _ U3█«? °°█ 0 |

ø□_ ' _ ùì¥«ç~q°¥û■|□γ_ç□±¶|~°ù^ | ·ð

f Å = @ • W E _ · E ^ Y • = / ? å o
¥ L i _ ~ ■ G _ — _____ ~ ± ± ú _ < | ■ W / ■ C _ ^ D □ 3 |

fL÷oáq |Ê□° } øW¥□° ° ■ ■ €ßP_ Í»fù` ° _ ~ _ [? _ / ¥5 | ó @C.-
PN·O_g|_wJ3ø■A+=y_-²æ_-·OÈM_o
L_Gä+}íptO²a||k||C+} @C pümuſu||■·=6ÀM_tüiW¥_G^|
||t_Í||xAp||0<^°|■Gúé_δtM||x#P||pÄrô @C L*ü■é1RE_i^δl¶ó°Í_■LÄ+ @C P||. ____ ^å¤c
[C&>]
L_ùå□_?Y| i_■çB=@Ã■»I_■€w■δiîöt■ç/_■iç_■LE±■_■{±NáPiçK L_■■=B«.E L_P+■iççîö_■h|
áßE_ß_■içÃWí/v■ @C@è@!0-'δ (8tT`·/îo_■?■xx%■δ_·»·0âo_°?f_■Ãù■c»D¢|
7ç=Ü_■ë■■Ö■»eT_■o!#€H²■\■_■P■■n·|</■U_■/■E«P05■ë|_■3■ø■n■_■Tx
5_■÷W'*r_G|°íÿ_ix■_ÿ_■?ßø¤■ùz_S^} _pp,<■<■tç-■z■-fæ>_<:_■96&²ü_>■=■T.Å?¥
ç_■f€úxNE■f 4¤?})) rtf■Ö>_ {jßA_DOJ_P÷xr€Wg||_ôô÷gbjAD|70é=| M_■■E_°} .

■?½•=o9• LÜ_ & _ ö _ ùç°çz^Üü_ °L_f»o? _Tñä/¢vQ6€ð5ñL4!3J äb __ ° [_ • e3Ðæ?E
']=j _ûñJ hñöqR^aI_ 9
L! ü^TùxNñ<(_<ÅOTu L/_ñf^2ë»¥«ññ; sito{ | _ °Of«è_ññ oñ8

v/PV_T
@p₁°dPt₂·Ä!pfoßç|_c²O\T¹²=:r'N₃Jaa|Åå'ªäfç/ù£o_xy_tI-o¹²É■Y_Γç■|¢«-|gá4W?
€?<■_7Ñ■Å□»_ctÅ~O_OoÅ~OM6ú_ô■■O€ÆO°■S«-|!4²yÄ|\òW._±
[■ê«óÅèù»k_ó°_q■÷€botù=PA¢`j olô_6·e«r¢■.v·6²_Bt■»,v¥ö·Rá■»-|:QR=Un
4ç/O©¤¥|_W(|µT«¤|_©+~_€Ct_xE4}||»9x_ 'e·SùG;_¤©Đèw:P,

MC Ç L_E ■U "ô■ Ç+L
L_y} iNÇ Ç`WÇ] ö |d Ç£W@p^_ú ÇİòÇ`Wo0 ÇtxD

□ ö ° ↘ s . ↗ W . ↗ i s ° ` | @ C { ↗ h å U x ² 1 ↗ H _ u y ³ T E ↗ E ↗ @ C _ v ` .
L _ l á o c y ↗ A
! m ² L i @ C L * ü ð - @ ² · _ ± L = M ù K
w c ° + @ C i E
T ↗ I ↗ V ↗ 8 ↗ I Ä L O C] (* @ C << i [ç Ü ! & O ↗ / B 7 Ä i ± Ä
Ä C / @ C L
ä n j Ä f \ ↗ t ↗ B P Ä M L V @ C E J a ÿ á ; ↗ h _ u ↗ í E - ~ E % @ C ↗ J ` u 0 f | / _ ø f ° E @ 3 C m Ä i U é
@ C ñ x r G " ↗ @ P i â o 1 ↗ 1 @ C ↗ L O + w E % } @ C 7 - ↗ Ä + 7
j » @ C ÷ , a
L _ ↗ c n @ C 6 ð 1

j8 @ç{ð_ñ|:μFç @`c
Lãáå#@ç ñg
L_nçn @ç6ðl

j8 @ç{ð_ñ|:μFç @`c
Lãáå#@ç ñg
L_nçn @ç6ðl

j8 @ç{ð_ñ|:μFç @`c
Lãáå#@ç ñg
L_nçn @ç6ðl

j8 @ç{ð_ñ|:µFç @`c
Lãåå#@ç ñg
L_nçn @ç6x»•°o<_^ç{²k_°v(o&á|ohyqGe L_FL°µô[■|1`1■ËGÿf·Gf£¤4ÀzJçî3²(¥P
Y^paÉUsLç_«8*DåòEL[8_!I>n*Lmòñd @ç Lù«॥:"'Åw+

©Ç©#
L[¬ ©Ç4Ä ©Çw\$á©úbKò ©Ç Lô¤?²ÿBü>_ (AR ©`¤o¶²÷f} È¤_Á7ì█«|_vno¢_í__¢{ÀTK£ü
@È|ch_= {û\$ i █?üa) 9, _5ôÅ/_ë; ÜÐ°KApG%ù*ü5s
L____z=ÈGÁé!~1fqn±Aéæ} Ì¶åPÀO_.Nx'Ps²È°Ow2È @ ö L█-Ì█PM57T,S%pyüàÙ

↪»D_e<ç»öë—ö/C¥íl_(î @ç@ü} ¢©£z■ðw<ú_À+:ç
Y
EÇ p[À4 |zz_y|ð|½ÅT7f'; -|qôËh6)=Lí¢"S*;¬?
—ö=ròGI»ÖL_¥·æµÍf■; ·L8=L_NâaezÀ±²NaR~v<L#åb @çâ L_BPVã_E|γ)
¿£S |ÜöE#_S ·y■i · [ö±«°_m2| · /+ÅëÖDGâ£) rX\>>■»5ç L_a4Â] |íöîî|h_æmâ _À½F£_À
@çüö+^P»f9~Ík&f<Í?yÐ`■-IYÈ& ° z_fBÁd_ùüOËX'esñX}P}µ{sàL_i 8æ¥Í»]G'»-
Dã FSNNø·Du}GJscN=|ìz8öau[²ç |&ML■CÂ²L²

yÄú€Å_¶ ¢y2oznôF_k| fÉLÄò__`±; , ÷fé @` [ü€
LÄ_¶ /ü€}
+í¢êO¢ _iö7E_t6v_Nâú»i ||Å_ì_iy_ë.8_GY÷rONYpù_êOma■]_i~«1P¢_^¤_δ«ÃÈÜ·7«Ö¶ P_¿
W?TÓI_¶ IP_7X) a @çü|
In¶:©, s#KOSO¶_zÅ_¶) ¶ X|. s>4Hç_¶ùsL_î_ ; ä~ü~G-Ü² . v¹vW/
ë_¶µp_Üa~² &¹µ, ýü¹4_¶0 · vç_¶íLx¹KÍW_¶SE \ L_ ^q_yq_! _¶¹¶«|
b%f_ñ_ñd_ñ ñ~p~«_¶=¶G_¶TG<¢_¶#_¶ iMsFª · V · èQ (ük_¶I¹/_¶
¶F6_W1 (í¶OPToæµûC_6â\ú2E_¶ç L÷S3! _¶Cü€Wvÿ_¶t39b_¶Oe«a · e_¶_¶YOm_¶~# · .bxñ_¶LðÅsh_±
±#dVmöFç_¶VG_¶á4e_u_±AWÂ*Éq@¶ç d>_¶àE _¢¥¢¥>¥j_j_ P_äzÖ[E-¶ç_¶€f}
¶&/G_Pù] ¶15-LE ¶16¥¶H} _RO»dÐòc»Ñ_¶
! ýü¥47á6_6_¶öIÜ"¢êEø+ö_¶G¢4_¶Üu\=ù_í¢_¶P_¶€

Xμ0||■q°=°²â²__; Ü Äw79Èñ¶|IOÈ<R_¿V||¶¶d_¿_jERf|_¶>■°!
{í GÇ L_IÄ460v9_¢, Oü_o&!°■ h_ñGßÿN (¤²à■°¢F4o■ TÇ■ E½¢f '¢⊥) È (Àí¢@■//
G£¶ÄµL_:_t:_!_1i È' oé6704
|<■-; O _FVA { 8 ^ [W£O|T£È\1¶ & @ÇC+ü||`»] È¥µãÿ ¶~7oµ±±¶ÖÀMÿ¶|A^¶{ µf=ÇM | ¶ 8 i ¶ * ¶ d
@ÇEMa °+P¶ ñ€»êO) ÜPÆð Ä■VYú_!_br L·ou53\£F|ÓD¶IùDãö■ D#_
@Çü¢XnãNm| E■y«p¶|á■E_ÆB_ðö; ¶| ■= &Lç XnfãÜ1

G_ ^î î¼+ +ùO!EF^f]0"1] . î @ç L*ù á^ r÷π±Ü L| {ç1ÖL|8æÿ µ©;v&@ç
ü'«°«_s|o«·ô|Ie|■ix| I-å|Ge|1`fe|2~«|f|l| |€ù5B|EW\a· L~_J| °OfEt|22 |
±J'»\$±µ_>_ß±wly'S|9r~)J|_J|9rae|
,4|E,8Ü;jéPuÿa4¢_ÿi~ß¢_G_%4ùÈÂ/7\$|ùá?²□Cê{ÿ¬`U0ëfç-YKì)Nz_å"¥*w|Yè
@ç@2ù¢4|FXÑCç @`fí|<3_m|Egø©1Å|jfU1+ @çg|+ç|3Å_å¤t|û @ ÖL_.çd¤È!@ç
[ù|wOzù?°5µ0·¥_«_ß3_V²_·J|_J|{a;|·!
aT_ ^_.@?«ifløqfb\$8_wñ&|ò|B0.¥Ãu|åE_NC|_EU_Tfiã\|!·cawrwð_í·«\|F pù|F?vðÖ| -
|á^Í_7_j

•Ñ•bDL÷ u_ômã|ñ q4ô
@ç_X²ç_¥a_u_ú_@ç@gü€
@ } j_D©SìC«ömO£Â= @ç■«L||` | L°Q■ü3_□I±~ô»HíJ_xìqf_e |-in¥||£ @ç L&s»ê_aN^hIÇ
@`f_«_3| " @ç @ (@ç=ça@ä @ç p]
L_u²7■ç L_6@ÿx_øA²çh±E
C__J \$ F Hâü² J_@ç■bF8F@pî rÀç°OfEpnaDç@üB■ AÑ@çüA L_iç @çEH@pG+û* @ç
çcaà ô' O@ @ç■âça-|û_

ga5(@a||C3_ @C L_ 4 { -ãvsN¤Å_ ã! Tù_ i_ :á+ | h) PÈ||M|| H @Cùð\B·T_E¤||ò||«Hë_ çä1f|
ññ■d¥pjvGÇ_ pó L_. î¥^Åì|yGÄ' 7f■c·E_I²1€O»Ä?4■HR±ÿ1r1~1`C■Ck ■ð/i½·~ô
ti(@CüT, \C_Ru||t f~I{ #T'æ;||Sff_ ·&||, I¤|| I | pæ @CHuP|«\■u||@¥ÄìTí_O_€||PĐËÂ!
@C LÖçBö÷_J||■ü3N■r_■LÀë¤E_I_ u;U{d■T²MGM. ú|éà½7■ìñ||P■~_Wn_i) 1«_€â4ç¤j6 ||T||
@C°y`■_ a_n■ù_PP¢1MdYOÊñ4_ néT| Gwìtafo2

$\hat{E}^{\blacksquare}_{\hat{z}_0n\epsilon} \hat{z}_0 \in MG\hat{e}^{\hat{I}} \gg E^{\blacksquare} \hat{E}^{\blacksquare}_{1G\tilde{a}\zeta} \|$

R□y·Tì@C pIüo`»" L||y²C+° P█*kEaø_G_erø¥Fë·EÑ«%uääM @CEA`||Üá>À¢htü!
=çq¬'.¾ÀÜ«VP, "/,\$|¤G
@Cr<ÖY+î+T±E÷1©y█^sùoif_aEmfÉFÿf█3_6sI#_█Oú█"E█°ÖÅ8Â>°_úf·ãO█íM
xøi7█°_ô`█0í;@| I█%ÑÖ`█jíf█Ëª█V█u¥yd€ù_äçíuÍ3Ö\à7s.█·:o█.ói{ o¥íq©

¶ ÿÅí¶&X%áX+%ÿ_ÿk÷9Pk=O_ ; ï«5s_ %@ç PB»aEç @ç@WrÈQ @çB«äÿ @ç ¶!
jÜDF2ÅoÅ _■AGFCO_F■Cç @ ö L\YX=1«E@GÅiC @çµBWÍ"÷_¢¶|väö° ¶ JÂß°å"@ç ÉX`í¿ /

f __ ã»î¢7#

■²m9% a ■d₄DT ■Ü<<đë+*5 @ç3
@ • ¢ YPR ¶ Yy†Åö } öEY } ¬¥1^?8«GêÃä` ¶ 9o__± @ç

[Ou€µ²=9MÍ @ç9ç±ì_ Ï?°5«!Ã/¶#EßðP3¢ÈéôÀ²—_>

€O`f«C+ Mµ8
LÂ@ô6n9ÄY @C L_B0·W~/vv|€ì_u·D»%(_~äÈf=°M.&OÇ p_À5^w|
h_uåMJÈ_G8nïq!TqzÂ" @C\ `uPfp·½ZOBömÄLÀOw'ç @C L_5PÜx_hj z■ñ<RF.Äg÷^□_É!bL}
t¤dÄAUoðT G»%8n Ä" @C ð<_Ew||8Ä @C ä L||+7æEI @C pH`ç+| @C© WnóL&Iç @`ü||
»N;±ÿ»°-ÄÖCQ @CX/p÷+o_ Lç||rx}éÄ @C @aò L_í @C_G`||«¥||fx»!_TâôwMì_ÈÅÈ_h?FfBç @
i L_B0ì L_SBV·■_E]cï_f_Oo■TÄivöäw" @Cv%■ðL«!79U■\z_
_«çLå @C@&üo [CÜlTÖ■_È■Å3y_ ôÄ\ @C\] `uPfyðHz+_11
@CÄXî_±ú||pI± FÖ_PÖGääAO.Äv! @CüöON||ôgDT_üöXÈ" @C p_«■zÄµOç @a■L_í||ptêÈ' @C
p+«■JÑ||ô @C Lç

AÇ @aV4ÄR) «\$@C ■üç`DC @C©
L;T■< @C l áÍD @CnE@p+ð20 @Ch6@4 @Cü[ð■JÑ||ô @C Lç
AÇ @aV4ÄR) «\$@C ■ü L_ô?²xâa

|uë;ô 9ÉÄGÆ[|PWìYGï&i¶ ItùN¶ô|
¢¶¢_¶ Ü±¶5nW@rî±€L%áX+%ÿQì■HÖ¥>î_n»Kä_<ù± Ö.G&__