

File created: 25-Mar-2024 12:52:41 {DSK}<home>frank>il>notecards>system>NCDOCUMENTCARD.;5

changes to: (FNS NC.ChangeParaLeading)

previous date: 8-Mar-2024 12:41:19 {DSK}<home>frank>il>notecards>system>NCDOCUMENTCARD.;4

Read Table: INTERLISP

Package: INTERLISP

Format: XCCS

(RPAQQ NCDOCUMENTCARDOMS

(

;;; Stuff for the Document compiler facility.

```
(DECLARE%: DONTEVAL@LOAD (FILES NCTEXTCARD))
(FNS NCAddStub.DocumentCard)
(GLOBALVARS NC.MakeDocParameters NC.DocBackPtrLinkLabel NC.SubBoxLinkLabel NC.FiledCardLinkLabel
PSA.Database NC.SelectingCardMenu NC.CRString NC.DocTitleParaLeading)
(INITVARS [NC.MakeDocParameters '(((Headings From Fileboxes| Numbered% Bold Unnumbered% Bold NONE)
(Titles From NoteCards| Bold Not% Bold NONE)
(Build Back Links| Cards and Boxes| Cards% only Boxes% only NONE)
(Copy Embedded Links| ALL NONE Select)
(Expand Embedded Links| ALL NONE Select)
(--DONE--]
(NC.CRString (CONCAT (CHARACTER 13)))
(NC.DocTitleParaLeading 20))
```

;;; MakeDocument stuff

```
(FNS NC.MakeDocument NC.DumpCardToDoc NC.DumpFileBoxToDoc NC.DumpNoteCardToDoc NC.FetchToLinksInOrder
NC.BuildMakeDocInspector NC.MakeDocInspectorSelectionFn NC.AddCRIfNeeded NC.ChangeParaLeading
NC.DumpExportableCardToDoc)
[INITPROPS (NC.MakeDocParameters ((Headings From Fileboxes| Numbered% Bold)
(Titles From NoteCards| Bold)
(Build Back Links| NONE)
(Copy Embedded Links| ALL)
(Expand Embedded Links| NONE)
(--DONE-- --CANCEL--)
(VALUE ((Headings From Fileboxes| Numbered% Bold Unnumbered% Bold NONE)
(Titles From NoteCards| Bold Not% Bold NONE)
(Build Back Links| Cards and Boxes| Cards% only Boxes% only NONE)
(Copy Embedded Links| ALL NONE Select)
(Expand Embedded Links| ALL NONE Select)
(--DONE--]
(FNS NC.AddDocumentCard)
(BITMAPS NC.DocumentCardIcon)
(DECLARE%: DONTEVAL@LOAD (P (NC.AddDocumentCard)))
(PROP (FILETYPE MAKEFILE-ENVIRONMENT)
NCDOCUMENTCARD))
```

;;; Stuff for the Document compiler facility.

(DECLARE%: DONTEVAL@LOAD

(FILESLOAD NCTEXTCARD)

(DEFINEQ

(NCAddStub.DocumentCard

[LAMBDA NIL

; Edited 6-Dec-88 12:21 by krivacic

;;; kirk 18Jun86 Add the FileBox card stub

```
(NC.AddCardTypeStub 'Document 'Text 'NCDOCUMENTCARD NIL `((DisplayedInMenuFlg . T)
(LinkIconAttachedBitMap ,NC.DocumentCardIcon])
```

)

(DECLARE%: DOEVAL@COMPILE DONTCOPY

```
(GLOBALVARS NC.MakeDocParameters NC.DocBackPtrLinkLabel NC.SubBoxLinkLabel NC.FiledCardLinkLabel PSA.Database
NC.SelectingCardMenu NC.CRString NC.DocTitleParaLeading)
```

)

(RPAQ? NC.MakeDocParameters

```
'(((Headings From Fileboxes| Numbered% Bold Unnumbered% Bold NONE)
(Titles From NoteCards| Bold Not% Bold NONE)
(Build Back Links| Cards and Boxes| Cards% only Boxes% only NONE)
(Copy Embedded Links| ALL NONE Select)
(Expand Embedded Links| ALL NONE Select)
(--DONE--)))
```

(RPAQ? NC.CRString (CONCAT (CHARACTER 13)))

(RPAQ? NC.DocTitleParaLeading 20)

;;; MakeDocument stuff

(DEFINEQ

(NC.MakeDocument

[LAMBDA (Card Title NoDisplayFlg TypeSpecificArgs InterestedWindow RegionOrPosition)
; Edited 27-Dec-88 14:40 by rtk

;; Called from a filebox's title bar. Makes a document by smashing all the descendant cards's text together. Ask user if wants numbered section
;; headings and titles. The former are made from FileBox titles, the latter from notecard titles. Delete embedded links at the end if the user desires.
;; rht 10/22/84: Hacked to be callable from Programmer's interface.
;; rht 11/17/84: Checks for cancel when choosing rootID and also when setting parameters.
;; rht 8/25/85: Now dumps sketch and graph cards as well as text cards.
;; rht 9/16/85: Now handles cr's around titles using para leading.
;; fgh 11/178/85 Updated to handle Card and NoteFile objects.
;; kirk 27Jun86 Moved NC.RetrieveTitle call so does not break when user Cancels
;; rht 7/31/86: Now checks for card types having ExportSubstanceFn prop.
;; kirk 8/22/86 Fix of free use of NoteFile var
;; rht 10/15/86: Integrated markM's changes and fixed box numbering.
;; rht 11/17/86: Now calls NC.ApplySupersFn rather than NC.MakeNoteCard.
;; pmi 12/5/86: Modified message to NC.SelectNoteCards to mention SHIFT-selection.
;; pmi 12/12/86: Removed obsolete ReturnLinksFlg argument in call to NC.SelectNoteCards.
;; rg 3/16/87 NC.DeleteNoteCards -> NC.DeleteNoteCard
;; rg 3/18/87 added NC.CardSelectionOperation wrapper. Still needs ProtectedCardOperation wrapper!
;; rg 4/2/87 changed NC.CardSelectionOperation to NCP.WithLockedCards
;; rht 4/17/87: No longer bugs user for confirm of delete when cancel'ing.
;; rht 6/4/87: Now stashes on doc card a prop list of destination notefiles of cross-file links encountered during creation of contents.
;; pmi 2/25/88: Replaced CardIdentifier argument with TypeSpecificArgs, and added InterestedWindow argument. The task of figuring out the
;; parameters is now done here, rather than in NCP.MakeDocument.
;; rht 8/5/88: Added RegionOrPosition arg and passed to super fn.

```
(NCP.WithLockedCards (PROG (RootCard RootTitle DocWindow DocCard DocWindowOrCard DocStream ParamProps
    CurParams HeadingsFromFileboxes TitlesFromNoteCards BuildBackLinks
    CopyEmbeddedLinks ExpandEmbeddedLinks InspectWin RootSubstanceType)
  (OR NoDisplayFlg (SPAWN.MOUSE))
  (SETQ DocWindowOrCard (NC.ApplySupersFn MakeFn Card "Document" NoDisplayFlg NIL
    InterestedWindow RegionOrPosition))
  (if NoDisplayFlg
    then (SETQ DocWindow InterestedWindow)
         (SETQ DocCard DocWindowOrCard)
    else (SETQ DocWindow DocWindowOrCard)
         (SETQ DocCard (NC.CoerceToCard DocWindow)))
    ; NC.MakeNoteCard either returned a Card or a window
    ; depending on NoDisplayFlg.
  (SETQ RootCard (OR (NC.CoerceToCard (CAR TypeSpecificArgs))
    (NC.SelectNoteCards T NIL NC.SelectingCardMenu DocWindow
      "Please shift-select the Note Card or File Box the
      document should start from.")))
  (if (NOT RootCard)
    then (NC.DeleteNoteCard Card NIL T)
         (RETURN NIL))
  (SETQ RootTitle (NC.RetrieveTitle RootCard))
  (NC.SetTitle DocCard (CONCAT "Document from %" RootTitle "%"))
  (AND DocWindow (WINDOWPROP DocWindow 'TITLE (NC.RetrieveTitle DocCard)))
  (SETQ DocStream (NC.FetchSubstance DocCard))
```

;;; Get MakeDocument parameters from user via inspector window if none were passed in.

```
(if (SETQ ParamProps (CADR TypeSpecificArgs))
  then (SETQ CurParams (NCP.DocumentParameters ParamProps))
  else (NC.BuildMakeDocInspector DocWindow))
(if (EQ (GETPROP 'NC.MakeDocParameters '--DONE--))
  'QUIT)
  then (PUTPROP 'NC.MakeDocParameters '--DONE-- '--CANCEL--)
       (NC.DeleteNoteCard Card NIL T)
       (if ParamProps
         then (SETPROPLIST 'NC.MakeDocParameters CurParams))
       (RETURN NIL))
(SETQ HeadingsFromFileboxes (GETPROP 'NC.MakeDocParameters
  '|Headings From Fileboxes|))
(SETQ TitlesFromNoteCards (GETPROP 'NC.MakeDocParameters
  '|Titles From NoteCards|))
(SETQ BuildBackLinks (GETPROP 'NC.MakeDocParameters '|Build Back Links|))
(SETQ CopyEmbeddedLinks (GETPROP 'NC.MakeDocParameters '|Copy Embedded Links|))
```

```
(SETQ ExpandEmbeddedLinks (GETPROP 'NC.MakeDocParameters
                                   ' |Expand Embedded Links|))
```

;; Call recursive routine to dump filebox.

```
(RESETLST
 (RESETSAVE (CURSOR WAITINGCURSOR))
 (NC.PrintMsg DocWindow NIL "Collecting text from descendant cards ... ")
```

;; Clean up the SeenBefore markers placed on the cards and boxes just copied.

```
[RESETSAVE NIL ' (PROGN (for Card in (NC.FetchUserDataProp DocCard 'SeenCards)
                          do (NC.SetUserDataProp Card 'SeenBefore NIL))
                        (NC.SetUserDataProp DocCard 'SeenCards NIL]
  ; Clean up the CrossFileLinkModePropList hung off the Doccard.
[RESETSAVE NIL ' (PROGN (NC.SetUserDataProp DocCard
                          'CrossFileLinkModePropList NIL]
```

;; Unbelievably kludgy hack to get around Intermezzo TEdit bug. Just insert and delete a CR.

```
(TEDIT.INSERT DocStream NC.CRString 1)
(TEDIT.DELETE DocStream 1 1)
(NC.SetUserDataProp DocCard 'CrossFileLinkModePropList
 (LIST (fetch (Card NoteFile) of DocCard)
       NIL))
(NC.DumpCardToDoc RootCard DocCard DocStream 0 0 HeadingsFromFileboxes
 TitlesFromNoteCards BuildBackLinks CopyEmbeddedLinks
 ExpandEmbeddedLinks)
(NC.PrintMsg DocWindow NIL "Done!")
(COND
 ((NOT NoDisplayFlg)
 (BLOCK 250)
 (NC.ClearMsg DocWindow T)))
```

;; Return NC.MakeDocParameters to its original setting, if new params were passed in.

```
(if ParamProps
    then (SETPROPLIST 'NC.MakeDocParameters CurParams))
(RETURN DocWindowOrCard]
```

(NC.DumpCardToDoc

```
[LAMBDA (Card DocCard DocStream CurSection SubSectionNum HeadingsFromFileboxes TitlesFromNoteCards
        BuildBackLinks CopyEmbeddedLinks ExpandEmbeddedLinks)
  ; Edited 8-Feb-88 17:18 by Trigg
```

;; rht 10/15/86: Integrated markM's changes and fixed box numbering.

;; rht 6/4/87: Now handles cross file links.

;; rht 2/8/88: Now returns SubSectionNum in case that can't follow cross-file link.

```
(LET ((Title (NC.RetrieveTitle Card)))
  (if [AND (NC.CrossFileLinkCardP Card)
          (NOT (SETQ Card (NC.GetCrossFileLinkDestCard Card (NC.CoerceToInterestedWindow DocCard]
            then (NC.PrintMsg NIL NIL "Couldn't follow cross-file link to " Title (CHARACTER 13))
              SubSectionNum
          else (LET ((Type (NC.RetrieveType Card)))
                (COND
                 ((OR (NCP.SketchBasedP Card)
                      (NCP.GraphBasedP Card)
                      (GETPROP Type 'ExportSubstanceFn))
                  (NC.ActivateCardAndDo Card (NC.DumpExportableCardToDoc Card DocCard DocStream CurSection
                                SubSectionNum HeadingsFromFileboxes
                                TitlesFromNoteCards BuildBackLinks CopyEmbeddedLinks
                                ExpandEmbeddedLinks Type)))
                 ((NCP.FileBoxP Card)
                  (NC.ActivateCardAndDo Card (NC.DumpFileBoxToDoc Card DocCard DocStream CurSection
                                SubSectionNum HeadingsFromFileboxes
                                TitlesFromNoteCards BuildBackLinks CopyEmbeddedLinks
                                ExpandEmbeddedLinks)))
                 ((NCP.TextBasedP Card)
                  (NC.ActivateCardAndDo Card (NC.DumpNoteCardToDoc Card DocCard DocStream CurSection
                                SubSectionNum HeadingsFromFileboxes
                                TitlesFromNoteCards BuildBackLinks CopyEmbeddedLinks
                                ExpandEmbeddedLinks)))
                (T (NC.PrintMsg NIL NIL "Can't make document from non-exportable card " (NC.RetrieveTitle
                                                                                          Card)
                    (CHARACTER 13))
                  SubSectionNum]))
```

(NC.DumpFileBoxToDoc

```
[LAMBDA (FileBoxCard DocCard DocStream CurSection SubSectionNum HeadingsFromFileboxes TitlesFromNoteCards
        BuildBackLinks CopyEmbeddedLinks ExpandEmbeddedLinks)
  ; Edited 20-Dec-88 09:57 by krivacic
```

;; Dump the contents of FileboxID to DocStream by recursively dumping all of its children. Keep track of the section numbers in case
 ;; HeadingsFromFileboxes = Numbered. Insert back pointers to the source cards and/or boxes depending on value of BuildBackpointers. Embedded
 ;; links (or some subset of them) may be copied or expanded depending on the values of CopyEmbeddedLinks and ExpandEmbeddedLinks.

;; rht 8/25/85: Fixed to handle sketch and graph cards.

;; rht 9/16/85: Now handles cr's around titles using para leading.

;; fgh 11/178/85 Updated to handle Card and NoteFile objects.

;; rht 7/31/86: Now checks for card types having ExportSubstanceFn prop.

;; rht 8/11/86: Added ShrunkFlg so that FileBoxCard is reshunk afterwards if necessary.

;; rht 10/15/86: Integrated markM's changes and fixed box numbering.

;; rht 6/4/87: Now calls NC.MakeLink rather than NCP.LocalGlobalLink and handles computes proper cross-file links mode.

```
(LET ((InterestedWindow (NC.CoerceToInterestedWindow DocCard))
      ShrunkFlg OldLoc)
  (NC.AddCRIfNeeded DocStream)
  (SETQ OldLoc (TEDIT.NCHARS DocStream))
  (if (AND (EQ HeadingsFromFileboxes 'Numbered% Bold)
           (NOT (ZEROP SubSectionNum)))
      then (SETQ CurSection (if (ZEROP CurSection)
                                then SubSectionNum
                                else (CONCAT CurSection "." SubSectionNum)))
      (NC.AppendStringToStream DocStream (CONCAT CurSection " ")
      T))
  (AND (NEQ HeadingsFromFileboxes 'NONE)
        (NC.AppendStringToStream DocStream (CONCAT (NC.RetrieveTitle FileBoxCard)
        T))
  (AND (FMEMB BuildBackLinks '(|Cards and Boxes| Boxes% only))
        (NC.AddLinkToCard DocCard (NC.MakeLink NIL NC.DocBackPtrLinkLabel FileBoxCard DocCard
        (create LINKDISPLAYMODE
        ATTACHBITMAPFLG _ T)
        NIL NIL NIL NIL (NC.ComputeCrossFileLinkMode FileBoxCard
        (NC.FetchUserDataProp DocCard
        'CrossFileLinkModePropList)
        InterestedWindow))
        FileBoxCard))
  (if (GREATERP (TEDIT.NCHARS DocStream)
                OldLoc)
      then (NC.AddCRIfNeeded DocStream)
      (NC.ChangeParaLeading DocStream))
  (if (NOT (NC.FetchUserDataProp FileBoxCard 'SeenBefore))
      then (SETQ ShrunkFlg (NC.GetShrunkWin FileBoxCard))
      [NC.SetUserDataProp DocCard 'SeenCards (CONS FileBoxCard (NC.FetchUserDataProp DocCard
        'SeenCards)
        (NC.SetUserDataProp FileBoxCard 'SeenBefore T)
        [for Link in (NC.FetchToLinksInOrder FileBoxCard) bind (SubSectionCounter _ 1) eachtime (BLOCK)
        when (FMEMB (fetch (Link Label) of Link)
                     (LIST NC.FiledCardLinkLabel NC.SubBoxLinkLabel))
        do (LET ((ChildCard (fetch (Link DestinationCard) of Link)))
              (SETQ SubSectionCounter (NC.DumpCardToDoc ChildCard DocCard DocStream CurSection
              SubSectionCounter HeadingsFromFileboxes
              TitlesFromNoteCards BuildBackLinks CopyEmbeddedLinks
              ExpandEmbeddedLinks]
              (NC.SetUserDataProp FileBoxCard 'SeenBefore NIL)
              (AND ShrunkFlg (SHRINKW (NC.FetchWindow FileBoxCard)))
              (ADD1 SubSectionNum)
        else (NC.PrintMsg NIL NIL (NC.RetrieveTitle FileBoxCard)
        " only expanded once in this cycle.")
        SubSectionNum])
        ; Edited 20-Dec-88 09:56 by krivacic
```

(NC.DumpNoteCardToDoc

```
[LAMBDA (Card DocCard DocStream CurSection SubSectionNum HeadingsFromFileboxes TitlesFromNoteCards
        BuildBackLinks CopyEmbeddedLinks ExpandEmbeddedLinks)
```

;; Dump the CardID notecard to the document card DocStream.

;; rht 8/25/85: Fixed to handle sketch and graph cards.

;; rht 9/16/85: Now handles cr's around titles using para leading.

;; fgh 11/178/85 Updated to handle Card and NoteFile objects.

;; rht 7/31/86: Now checks for card types having ExportSubstanceFn prop.

;; rht 8/11/86: Added ShrunkFlg so that Card is reshunk afterwards if necessary.

;; rht 10/15/86: Integrated markM's changes and fixed box numbering.

;; rht 6/4/87: Now calls NC.MakeLink rather than NCP.LocalGlobalLink and handles computes proper cross-file links mode.

;; rht 2/10/88: Added a check for link to copy being crossfilelink.

```
(LET ((CardStream (NC.FetchSubstance Card))
      InterestedWindow (NC.CoerceToInterestedWindow DocCard))
  ShrunkFlg OldLoc)
  (NC.AddCRIfNeeded DocStream)
  (SETQ OldLoc (TEDIT.NCHARS DocStream))
  (AND (NEQ TitlesFromNoteCards 'NONE)
```

```

(NC.AppendStringToStream DocStream (CONCAT (NC.RetrieveTitle Card))
  (EQ TitlesFromNoteCards 'Bold]
(AND (FMEMB BuildBackLinks '([Cards and Boxes| Cards% only))
  (NC.AddLinkToCard DocCard (NC.MakeLink NIL NC.DocBackPtrLinkLabel Card DocCard
    (create LINKDISPLAYMODE
      ATTACHBITMAPFLG _ T)
    NIL NIL NIL NIL (NC.ComputeCrossFileLinkMode Card
      (NC.FetchUserDataProp DocCard
        'CrossFileLinkModePropList)
      InterestedWindow))
    Card))
(if (GREATERP (TEDIT.NCHARS DocStream)
  OldLoc)
  then (NC.AddCRIfNeeded DocStream)
        (NC.ChangeParaLeading DocStream))
(if (NOT (NC.FetchUserDataProp Card 'SeenBefore))
  then (SETQ ShrunkFlg (NC.GetShrunkWin Card))
        [NC.SetUserDataProp DocCard 'SeenCards (CONS Card (NC.FetchUserDataProp DocCard 'SeenCards]
        (NC.SetUserDataProp Card 'SeenBefore T)

;; Step through list of notecard imageobjs in the card we're working on and either expand or copy or ignore each according to
;; values of ExpandEmbeddedLinks and CopyEmbeddedLinks.

(for Object in (NC.TEditCollectObjects CardStream (FUNCTION NC.LinkIconImageObjP))
  bind LinkSpec LinkLabel ToCard ToCardType (LastLoc _ 1)
    (CurLoc _ 0)
    ActiveP ExpandP CopyP AlreadyExpanded
  eachtime (BLOCK)
  do [(SETQ LinkSpec (NC.FetchLinkFromLinkIcon (CAR Object)))
      (SETQ LinkLabel (fetch (Link Label) of LinkSpec))
      (SETQ CurLoc (CADR Object)) ; Copy over any text between this obj and the last.
      [if (ILESSP LastLoc CurLoc)
        then (TEDIT.COPY (TEDIT.SETSEL CardStream LastLoc (IDIFFERENCE CurLoc LastLoc))
          (TEDIT.SETSEL DocStream (TEDIT.NCHARS DocStream)
            1
            'RIGHT])
        (SETQ LastLoc (ADD1 CurLoc))
        [SETQ CopyP (OR (EQ CopyEmbeddedLinks 'ALL)
          (AND (LISTP CopyEmbeddedLinks)
            (FMEMB LinkLabel CopyEmbeddedLinks])
        [SETQ ExpandP (OR (EQ ExpandEmbeddedLinks 'ALL)
          (AND (LISTP ExpandEmbeddedLinks)
            (FMEMB LinkLabel ExpandEmbeddedLinks])
        (SETQ ToCard (fetch (Link DestinationCard) of LinkSpec))
        (if (AND (NC.CrossFileLinkCardP ToCard)
          (OR ExpandP CopyP))
          then (SETQ ToCard (NC.GetCrossFileLinkDestCard ToCard InterestedWindow)))
        (if (NC.ValidCardP ToCard)
          then (if (AND (SETQ AlreadyExpanded (NC.FetchUserDataProp ToCard 'SeenBefore))
            ExpandP)
            then (NC.PrintMsg NIL NIL (NC.RetrieveTitle ToCard)
              " only expanded once in this cycle."
              (CHARACTER 13)))
          (if (OR CopyP (AND ExpandP AlreadyExpanded))
            then ; Expand this link. Check type and make recursive call.
              (NC.AddLinkToCard DocCard (NC.MakeLink NIL LinkLabel ToCard DocCard
                (fetch (Link DisplayMode) of LinkSpec)
                NIL NIL NIL NIL
                (NC.ComputeCrossFileLinkMode
                  ToCard
                  (NC.FetchUserDataProp DocCard
                    'CrossFileLinkModePropList)
                  InterestedWindow))
                ToCard) ; (TEDIT.COPY (TEDIT.SETSEL CardStream CurLoc 1)
                ; (TEDIT.SETSEL DocStream (ADD1 (fetch TEXTLEN of
                ; DocObj)) 0 'RIGHT))

          )
          (if (AND ExpandP (NOT AlreadyExpanded))
            then ; Expand this link. Check type and make recursive call.
              (SETQ SubSectionNum
                (NC.DumpCardToDoc ToCard DocCard DocStream CurSection SubSectionNum
                  HeadingsFromFileboxes TitlesFromNoteCards BuildBackLinks
                  CopyEmbeddedLinks ExpandEmbeddedLinks]

  finally [COND
    ((ILESSP CurLoc (TEDIT.NCHARS CardStream))
      (TEDIT.COPY (TEDIT.SETSEL CardStream LastLoc (IDIFFERENCE (TEDIT.NCHARS CardStream)
        CurLoc))
        (TEDIT.SETSEL DocStream (ADD1 (TEDIT.NCHARS DocStream)
          0
          'RIGHT])
        (TEDIT.SETSEL DocStream (ADD1 (TEDIT.NCHARS DocStream)
          0
          'RIGHT))
        (NC.SetUserDataProp Card 'SeenBefore NIL)
        (AND ShrunkFlg (SHRINKW (NC.FetchWindow Card)))
      else (NC.PrintMsg NIL NIL (NC.RetrieveTitle Card)

```

```

" only expanded once in this cycle."
  (CHARACTER 13)))
SubSectionNum])

```

(NC.FetchToLinksInOrder

[LAMBDA (Card)

(* fgh%: "17-Nov-85 18:23")

```

(* * Return the list of To links appearing in the text of ID in the order in which they appear.)

```

```

(* * fgh |11/17/85| Updated to handle card object.)

```

```

(for ObjectPair in (NC.TEditCollectObjects (NC.FetchSubstance Card)
  (FUNCTION NC.LinkIconImageObjP))
  collect (NC.FetchLinkFromLinkIcon (CAR ObjectPair]))

```

(NC.BuildMakeDocInspector

[LAMBDA (MainWin)

; Edited 28-Dec-88 14:55 by rtk

```

;;; bk 12/28/88 Use a STYLE SHEET to display the Doc card parameters

```

```

;;; Build and display an inspector window on the parameters for making documents.

```

```

;;; rht 10/3/85: No longer brings up prompt window.

```

```

;;; rht 4/22/87: Now tries to put inspect window in the right place so ATTACHWINDOW won't have to move it.

```

```

(DECLARE (GLOBALVARS NC.MakeDocParameters))
(LET* [(STYLE-SHEET-PROPS (for ITEM in NC.MakeDocParameters when (NEQ (CAR ITEM)
  '---DONE---)
  collect (CAR ITEM)))
  (STYLE-SHEET-ITEMS (for ITEM in NC.MakeDocParameters when (NEQ (CAR ITEM)
  '---DONE---)
  collect (create MENU
    ITEMS _ (CDR ITEM)
  [STYLE-SHEET-TITLES (for ITEM in STYLE-SHEET-PROPS collect (PACK (LIST " " ITEM " ")
  [STYLE-SHEET-SELECTIONS (for ITEM in NC.MakeDocParameters when (NEQ (CAR ITEM)
  '---DONE---)
  collect (GETPROP 'NC.MakeDocParameters (CAR ITEM)
  [POSITION (AND (WINDOWP MainWin)
    (create POSITION
      XCOORD _ (fetch (REGION LEFT) of (WINDOWPROP MainWin 'REGION))
      YCOORD _ (fetch (REGION TOP) of (WINDOWREGION MainWin)
      (NEW-VALUES (STYLESHEET (CREATE STYLE 'TITLE "Make Document Parameters" 'ITEM.TITLES
        STYLE-SHEET-TITLES 'ITEM.TITLE.FONT (FONTCOPY NC.MenuFont 'WEIGHT
          'BOLD)
        'ITEMS STYLE-SHEET-ITEMS 'SELECTIONS STYLE-SHEET-SELECTIONS
        'POSITION POSITION 'NEED.NOT.FILL.IN NIL]
      (if NEW-VALUES
        then (for PROP in STYLE-SHEET-PROPS as NEW-VALUE in NEW-VALUES
          do (if (EQ NEW-VALUE 'Select)
            then (NC.PrintMsg MainWin "Enter " PROP ".")
              (LET* ((OLD-VALUE (GETPROP 'NC.MakeDocParameters PROP))
                (Links (NC.AskLinkLabel MainWin T T NIL NIL NIL
                  (COND
                    ((LISTP OLD-VALUE))
                    ((EQ OLD-VALUE 'ALL)
                     (NC.RetrieveLinkLabels (fetch (Card NoteFile)
                       of (NC.CoerceToCard MainWin)
                       )
                    (T NIL))
                  (T NIL))
                (SETQ NEW-VALUE (if Links
                  then (if (CAR Links)
                     else 'NONE)
                  else OLD-VALUE))
              (PUTPROP 'NC.MakeDocParameters PROP NEW-VALUE))
            (PUTPROP 'NC.MakeDocParameters '---DONE--- '---DONE---)
          else (PUTPROP 'NC.MakeDocParameters '---DONE--- 'QUIT]))

```

(NC.MakeDocInspectorSelectionFn

[LAMBDA (Property ValueFlg InspectWin)

; Edited 19-Dec-88 18:06 by krivacic

```

;;; Called when user buttons in the make document inspector menu on the Property parameter. Put up a menu of choices for new values for this
;;; parameter.

```

```

;;; rht 11/17/84: Now can select --CANCEL--. Notice strange way of checking for --DONE-- versus --CANCEL--. This is because the Inspector package
;;; doesn't send the property name in Property arg if ValueFlg is on. That bug has been reported.

```

```

;;; rht 10/11/85: Fixed to have a more correct interface to NC.AskLinkLabel when need to Select.

```

```

;;; rht 10/22/85: Now uses ChangedFlg to prevent NIL from showing up as value in inspector.

```

```

;;; rht 8/8/86: Changed call from NCP.GetLinkLabels to NC.RetrieveLinkLabels. Also now allows selection of value as well as property.

```

```
(DECLARE (GLOBALVARS NC.MenuFont NC.MakeDocParameters))
(if (FMEMB Property ' (--DONE-- --CANCEL--))
  then (DETACHWINDOW InspectWin)
  (CLOSEW InspectWin)
  (if ValueFlg
    then (PUTPROP 'NC.MakeDocParameters '--DONE-- 'QUIT))
  NIL
else (LET* ((OldVal (GETPROP 'NC.MakeDocParameters Property))
  [Answer (MENU (create MENU
    ITEMS _ (CDR (FASSOC Property NC.MakeDocParameters))
    TITLE _ Property
    MENUFONT _ NC.MenuFont
    CENTERFLG _ T
    ITEMHEIGHT _ (IPLUS (FONTPROP NC.MenuFont 'HEIGHT)
      1]
    Links ChangedFlg)
  [SETQ ChangedFlg (if (EQ Answer 'Select)
    then (LET ((CardWin (MAINWINDOW InspectWin)))
      (SETQ Links (NC.AskLinkLabel CardWin T T NIL NIL NIL
        (COND
          ((LISTP OldVal))
          ((EQ OldVal 'ALL)
            (NC.RetrieveLinkLabels (fetch (Card
              NoteFile
            )
            of (
              NC.CoerceToCard
              CardWin))
          (T)))
        (T NIL))
        T)))
    (if Links
      then (SETQ Answer (if (CAR Links)
        else 'NONE))
      (NOT (EQUAL Answer OldVal)))
    else (AND Answer (NOT (EQUAL Answer OldVal)
  (if ChangedFlg
    then (PUTPROP 'NC.MakeDocParameters Property Answer)
    (INSPECTW.REDISPLAY InspectWin Property))
  (INSPECTW.SELECTITEM InspectWin)
  NIL]))
```

```
(NC.ChangeParaLeading
  (LAMBDA (Stream)
    (* ** Change the para leading on the text stream Stream using default value.)
    (TEDIT.PARALOOKS Stream (LIST 'PARALEADING NC.DocTitleParaLeading)
      (TEDIT.NCHARS Stream)
      1))
  )
```

```

;; Dump the CardID sketch or graph card to the document card DocStream.
;; rht 9/16/85: Now handles cr's around titles using para leading.
;; fgh 11/17/85 Updated to handle card objects and removal of SubstanceTypes.
;; rht 7/31/86: Now can handle other card types than Graph or Sketch based ones, but they must have an appropriate fn on the ExportSubstanceFn
;; property of the atom. That fn should return either an imageobj or a textstream.
;; rht 8/11/86: Added ShrunknFlg so that Card is reshunk afterwards if necessary.
;; rht 10/15/86: Integrated markM's changes and fixed box numbering.
;; rht 10/31/86: Now uses TEDIT.COPY rather than TEDIT.INCLUDE because the latter loses formatting info.
;; rht 3/26/87: Fixed bug whereby links in sketch cards weren't getting smashed to 'external' link icons. Now calls NC.MakeExternalSketchCopy.
;; rht 4/22/87: Now expects NC.MakeExternalSketchCopy to return an imageobj.

```

;; rht 6/4/87: Now calls NC.MakeLink rather than NCP.LocalGlobalLink and handles computes proper cross-file links mode.

;; pmi 8/7/87: Now 'externalizes' graphs so that they won't break when edited once in the document.

;; rht 2/10/88: Added a check for link to copy being crossfilelink.

;; BK 1/6/89 Change the Ordering Of the Image Objs & Their Links/Contents

```
(DECLARE (GLOBALVARS NC.DocBackPtrLinkLabel))
(LET ((CardStream (NC.FetchSubstance Card))
      (InterestedWindow (NC.CoerceToInterestedWindow DocCard))
      ShrunkenFlg OldLoc ThingToInsert)
  (NC.AddCRIfNeeded DocStream)
  (SETQ OldLoc (TEDIT.NCHARS DocStream))
  [AND (NEQ TitlesFromNoteCards 'NONE)
    (NC.AppendStringToStream DocStream (CONCAT (NC.RetrieveTitle Card)
      (EQ TitlesFromNoteCards 'Bold)
    (AND (FMEMB BuildBackLinks '(|Cards and Boxes| Cards% only))
      (NC.AddLinkToCard DocCard (NC.MakeLink NIL NC.DocBackPtrLinkLabel Card DocCard
        (create LINKDISPLAYMODE
          ATTACHBITMAPFLG _ T)
        NIL NIL NIL NIL (NC.ComputeCrossFileLinkMode Card
          (NC.FetchUserDataProp DocCard
            'CrossFileLinkModePropList)
            InterestedWindow))
        Card))
    (if (GREATERP (TEDIT.NCHARS DocStream)
      OldLoc)
      then (NC.AddCRIfNeeded DocStream)
        (NC.ChangeParaLeading DocStream))
    (if (NOT (NC.FetchUserDataProp Card 'SeenBefore))
      then (SETQ ShrunkenFlg (NC.GetShrunkenWin Card))
        [NC.SetUserDataProp DocCard 'SeenCards (CONS Card (NC.FetchUserDataProp DocCard 'SeenCards)
          (NC.SetUserDataProp Card 'SeenBefore T))
        ])
```

;;; Stick an imageobj made from the card into the document. Also might be a textstream computed by the card type's ExportSubstanceFn.

```
[SETQ ThingToInsert (if (NCP.GraphBasedP CardType)
  then (GRAPHEROBJ (NC.MakeExternalGraphCopy CardStream))
  elseif (NCP.SketchBasedP CardType)
  then (NC.MakeExternalSketchCopy (OR (NC.FetchWindow Card)
    CardStream))
  elseif (LET [(ExportSubstanceFn (GETPROP CardType 'ExportSubstanceFn)
    (AND ExportSubstanceFn (APPLY* ExportSubstanceFn CardStream))
  (AND CardStream (if (IMAGEOBJP ThingToInsert)
    then (TEDIT.INSERT.OBJECT ThingToInsert DocStream)
    elseif (TEXTSTREAMP ThingToInsert)
    then (TEDIT.COPY (TEDIT.SETSEL ThingToInsert 1 (TEDIT.NCHARS ThingToInsert)
      )
      (TEDIT.SETSEL DocStream (TEDIT.NCHARS DocStream)
        1
        'RIGHT])
    )
```

;;; Point Past the Image Object

```
(TEDIT.SETSEL DocStream (ADD1 (TEDIT.NCHARS DocStream))
  0
  'RIGHT)
(NC.AddCRIfNeeded DocStream)
```

;;; Step through list of notecard imageobjs in the card we're working on and either expand or copy or ignore each according to values of
 ExpandEmbeddedLinks and CopyEmbeddedLinks.

```
[for Link in (CAR (NC.CollectReferences Card NIL NIL NIL))
  bind LinkLabel ToCard ToCardType ActiveFlg ExpandFlg CopyFlg AlreadyExpanded
  eachtime (BLOCK)
  do (SETQ LinkLabel (fetch (Link Label) of Link))
    [SETQ CopyFlg (OR (EQ CopyEmbeddedLinks 'ALL)
      (AND (LISTP CopyEmbeddedLinks)
        (FMEMB LinkLabel CopyEmbeddedLinks)
      )
    )
    [SETQ ExpandFlg (OR (EQ ExpandEmbeddedLinks 'ALL)
      (AND (LISTP ExpandEmbeddedLinks)
        (FMEMB LinkLabel ExpandEmbeddedLinks)
      )
    )
    (SETQ ToCard (fetch (Link DestinationCard) of Link))
    (if (AND (NC.CrossFileLinkCardP ToCard)
      (OR ExpandFlg CopyFlg))
      then (SETQ ToCard (NC.GetCrossFileLinkDestCard ToCard InterestedWindow)))
    [if (NC.ValidCardP ToCard)
      then (if (AND (SETQ AlreadyExpanded (NC.FetchUserDataProp ToCard 'SeenBefore))
        ExpandFlg)
        then (NC.PrintMsg NIL NIL (NC.RetrieveTitle ToCard)
          " only expanded once in this cycle."
          (CHARACTER 13)))
        (if (OR CopyFlg (AND ExpandFlg AlreadyExpanded))
          then ; Copy this link.
            (NC.AddLinkToCard DocCard
              (NC.MakeLink NIL LinkLabel ToCard DocCard NIL NIL NIL NIL NIL
                (NC.ComputeCrossFileLinkMode ToCard (NC.FetchUserDataProp
                  DocCard
```



```

                                CrossFileLinkModePropList
                                )
                                InterestedWindow))
                                ToCard))
    (if (AND ExpandFlg (NOT AlreadyExpanded))
        then ; Expand this link. Check type and make recursive call.
            (SETQ SubSectionNum
              (NC.DumpCardToDoc ToCard DocCard DocStream CurSection SubSectionNum
                               HeadingsFromFileboxes TitlesFromNoteCards BuildBackLinks
                               CopyEmbeddedLinks ExpandEmbeddedLinks)
              finally (AND NIL (TEDIT.SETSEL DocStream (ADD1 (TEDIT.NCHARS DocStream))
                              0
                              'RIGHT]
                      (NC.SetUserDataProp Card 'SeenBefore NIL)
                      (AND ShrunkFlg (SHRINKW (NC.FetchWindow Card))))
            else (NC.PrintMsg NIL NIL (NC.RetrieveTitle Card)
                          " only expanded once in this cycle."
                          (CHARACTER 13)))
              SubSectionNum])
)

[LOADINITPROPS (NC.MakeDocParameters (|Headings From Fileboxes| Numbered% Bold)
  (|Titles From NoteCards| Bold)
  (|Build Back Links| NONE)
  (|Copy Embedded Links| ALL)
  (|Expand Embedded Links| NONE)
  (--DONE-- --CANCEL--)
  (VALUE ((|Headings From Fileboxes| Numbered% Bold Unnumbered% Bold NONE)
    (|Titles From NoteCards| Bold Not% Bold NONE)
    (|Build Back Links| |Cards and Boxes| Cards% only Boxes% only NONE)
    (|Copy Embedded Links| ALL NONE Select)
    (|Expand Embedded Links| ALL NONE Select)
    (--DONE--])

(DEFINEQ

(NC.AddDocumentCard
[LAMBDA NIL
; Edited 2-Dec-88 17:03 by krivacic

(* * fgh |11/14/85| removed substance type param.)

(NC.AddCardType 'Document 'Text `[(MakeFn ,(FUNCTION NC.MakeDocument]
  `((LinkDisplayMode Icon)
    (LinkIconAttachedBitMap ,NC.DocumentCardIcon)
    (DefaultHeight 350)
    (DefaultWidth 350)
    (DisplayedInMenuFlg ,T])

)

(RPAQQ NC.DocumentCardIcon )

(DECLARE%: DONTEVAL@LOAD

(NC.AddDocumentCard)
)

(PUTPROPS NCDOCUMENTCARD FILETYPE :FAKE-COMPILE-FILE)

(PUTPROPS NCDOCUMENTCARD MAKEFILE-ENVIRONMENT (:PACKAGE "IL" :READTABLE "INTERLISP" :BASE 10))

```

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