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// TYPESET.WCM — Replace ASCII quotation, apostrophe, dash and hyphen
// marks with typesetter-style
// marks, using characters from WP
charsets 1 and 4, and arrange for correct hyphenation
// at hyphens and dashes.
//
// "foo" becomes "foo"
// 'foo' becomes 'foo'
// dad's becomes dad's
// Niels' becomes Niels'
// foo--bar becomes foo—bar
// foo-bar becomes foo-bar
// 75-78 remains 75-78
//
// WARNINGS:
// 1. This screws up on nested quotation marks of the same kind (e.g.
// doublequotes within
// doublequotes). This could be fixed, but the speed penalty makes
// it probably not
// worthwhile. Doublequotes within single quotes, and vice versa,
// are handled
// correctly.
// 2. Apostrophes that are not followed by an "s" (e.g. in "the three cats'
// whiskers") that occur after
// an opening singlequote can't be distinguished from the closing
// singlequote—humans
// do this semantically, not syntactically. It is best to type these as
// proper apostrophes
// when you input the document; this will keep the macro from
// getting confused.
// 3. If you use ASCII quotes as mathematical prime symbols, this macro
// will screw up.
// Type your document with real prime ' ([6,45]) and doubleprime "
// ([6,46]) symbols
// to avoid trouble.
//
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//
// REVISION HISTORY
// 12 Jun 1992 RjR Initial version
// 16 Jun 1992 RjR Logic to distinguish between singlequotes and
// apostrophes;
// loop unrolling for speed.
// Released as v 1.0.
// 25 Jun 1992 RjR Added conversion of dashes; changed name to

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TYPESET.WCM.
//                                     Released as v 1.1.
//   16 Oct 1992   RjR   Added extra passes to insert [HyphSRt] codes
after Emdashes and
//                                     Endashes.
//   23 Nov 1992   RjR   Improved accuracy and speed of
singlequote/apostrophe heuristic;
//                                     improved usage notes.
//   25 Nov 1992   RjR   Added front-end dialog to make conversions
selective; added conversion
//                                     of hyphens.
//                                     Released as v. 1.3.
//   5 Dec 1992 RjR   Improved appearance of selection dialog.
//   10 Dec 1992 RjR   Corrected use of left quote characters.
//   30 Jan 1993RjR   Added separate convert-apostrophes toggle.
//                                     Released as v 1.4.
//

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APPLICATION(WP;WPWP;Default)

```

//
*****
**
// Main
//
CALL(Init@)
CALL(WhichConversions@)

IF (DoSquote=1)
CALL(ProcessSq@)
ENDIF
IF (DoDquote=1)
CALL(ProcessDq@)
ENDIF
IF (DoDash=1)
CALL(ProcessDash@)
ENDIF
IF (DoHyphen=1)
CALL(ProcessHyphen@)
ENDIF
IF (DoHyphSrt=1)
CALL(ProcessHyphSRt@)
ENDIF
CALL(End@)
// NOTREACHED
QUIT

```

```
//
*****
**
// Init@
//
// Initialization
//
LABEL(Init@)
ONERROR(End@)
ONCANCEL(End@)
GetWPData(MacroVariable:RevCodes;SystemVariable:RevealCodesActive!)
SelectMode(Off!)
RevealCodes(Off!)
MacroStatusPrompt(Off!)
Display(Off!)
RETURN
```

```

//
*****
**
// WhichConversions@
//
// Front end dialog
//
LABEL(WhichConversions@)
ConvDlg:=1
DoQuote:=1
DoDQuote:=1
DoApo:=1
DoDash:=1
DoHyphen:=1
DoHyphSrt:=1
DialogDefine(ConvDlg; 50; 50; 168; 162; 1+2+16; "TypeSet.WCM")
DialogAddCheckBox(ConvDlg; 1000; 18; 18; 90; 12; "Convert &singlequotes";
DoQuote)
DialogAddCheckBox(ConvDlg; 1001; 28; 30; 90; 12; "Also convert &apostrophes";
DoApo)
DialogAddCheckBox(ConvDlg; 1002; 18; 46; 90; 12; "Convert &doublequotes";
DoDQuote)
DialogAddCheckBox(ConvDlg; 1003; 18; 62; 90; 12; "Convert ASCII das&hes";
DoDash)
DialogAddCheckBox(ConvDlg; 1004; 18; 78; 90; 12; "Convert ASCII h&yphens";
DoHyphen)
DialogAddCheckBox(ConvDlg; 1005; 18; 94; 130; 12; "Insert [Hy&phSrt] codes after
WP dashes"; DoHyphSrt)
DialogAddGroupBox(ConvDlg; 1006; 8; 6; 146; 108; "Select conversions")
DialogDisplay(ConvDlg; 1)

IF (MacroDialogResult = 2)
    DialogDestroy(ConvDlg)
    CALL(End@)
ENDIF

DialogDestroy(ConvDlg)
RETURN

```

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//
*****
**
// ProcessSq@
//
// Convert singlequotes and apostrophes. Note that this must be called
// before ProcessDq, because
// it relies on the fact that any dquote characters are in ASCII.
//
LABEL(ProcessSq@)
PosDocTop()
ONNOTFOUND(SqDone@)
// Unwind the following loop by one, so we can use SearchNext() in the body. This
// cuts almost 50%
// off the function's execution time.
SearchText(SearchString:"";SearchDirection:Forward!;SearchScope:Extended!)
PosCharPrevious()
GetWPData(MacroVariable:LeftCh;SystemVariable:LeftChar!)
PosCharNext()
// We are not in a quote when we start; so the found char is an squote iff the char to
// its
// left is a code, one of certain punctuation marks, or a space.
STRPOS(TargPos; LeftCh; "[{--—"" ")
IF ((LeftCh="") or (TargPos > 0))
    // It's a singlequote
    DeleteCharPrevious()
    TypeChar(CharacterSet:4;CharacterOffset:29)
    InQuote:=True
ELSE
    // It's an apostrophe
    IF(DoApo=1)
        DeleteCharPrevious()
        TypeChar(CharacterSet:1;CharacterOffset:9)
    ENDIF
    InQuote:=False
ENDIF
// The only way out of this loop is the ONNOTFOUND trap
WHILE(True)
    SearchNext()
    PosCharPrevious()
    GetWPData(MacroVariable:LeftCh;SystemVariable:LeftChar!)
    PosCharNext()
    GetWPData(MacroVariable:RightCh;SystemVariable:RightChar!)
    IF (InQuote)
        // If we are in a quote, the found char is an squote iff the char to its right is a

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code,
//      one of certain punctuation marks, or a space.
STRPOS(TargPos; RightCh; ".?!;,;)]}---"" ")
IF ((RightCh="") or (TargPos > 0))
    // It's a singlequote
    DeleteCharPrevious()
    TypeChar(CharacterSet:4;CharacterOffset:28)
    InQuote:=False
ELSE
    // It's an apostrophe
    IF(DoApo=1)
        DeleteCharPrevious()
        TypeChar(CharacterSet:1;CharacterOffset:9)
    ENDIF
ENDIF
ELSE // not InQuote
    // If we are not in a quote, the found char is an squote iff the char to it's left is
    a code,
    //      one of certain punctuation marks, or a space.
    STRPOS(TargPos; LeftCh; "([{---"" ")
    IF ((LeftCh="") or (TargPos > 0))
        // It's a singlequote
        DeleteCharPrevious()
        TypeChar(CharacterSet:4;CharacterOffset:29)
        InQuote:=True
    ELSE
        // It's an apostrophe
        IF(DoApo=1)
            DeleteCharPrevious()
            TypeChar(CharacterSet:1;CharacterOffset:9)
        ENDIF
    ENDIF
ENDIF
ENDIF
ENDWHILE
LABEL(SqDone@)
RETURN

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```

//
*****
**
// ProcessDq@
//
// Convert all doublequotes. This is much easier than the singlequotes since
// the ASCII character
//     is not overloaded.
//
LABEL(ProcessDq@)
PosDocTop()
ONNOTFOUND(DqDone@)
// Unwind the following loop by one, so we can use SearchNext() in the body. This
//     cuts almost 50%
//     off the function's execution time.
SearchText(SearchString:"";SearchDirection:Forward!;SearchScope:Extended!)
DeleteCharPrevious()
TypeChar(CharacterSet:4;CharacterOffset:32)
InQuote:=True
// The only way out of this loop is the ONNOTFOUND trap
WHILE(True)
    SearchNext()
    DeleteCharPrevious()
    IF (InQuote)
        TypeChar(CharacterSet:4;CharacterOffset:31)
        InQuote:=False
    ELSE
        TypeChar(CharacterSet:4;CharacterOffset:32)
        InQuote:=True
    ENDIF
ENDWHILE
LABEL(DqDone@)
RETURN

```

```
//
*****
**
// ProcessDash@
//
// Convert ASCII "--" dashes to Emdashes. This one's easy.
//
LABEL(ProcessDash@)
PosDocTop()
SearchReplace(SearchString:"";
SearchDirection:Forward!;
ReplacementScope:Extended!;
ReplacementString:"—";
ReplacementAction:ReplaceAll!)
RETURN
```



```

//
*****
**
// ProcessHyphen@
//
// Convert hyphens.  If the characters left or right of the thing are digits,
// leave it as ASCII "-"; otherwise
// make it an Endash.
//
// LABEL(ProcessHyphen@)
PosDocTop()
ONNOTFOUND(HyphenDone@)
// Unwind the following loop by one, so we can use SearchNext() in the body.  This
// cuts almost 50%
// off the function's execution time.
SearchText(SearchString:""; SearchDirection:Forward!; SearchScope:Extended!)
PosCharPrevious()
GetWPData(MacroVariable:LeftCh;SystemVariable:LeftChar!)
PosCharNext()
GetWPData(MacroVariable:RightCh;SystemVariable:RightChar!)
STRPOS(LTargPos; LeftCh; "1234567890")
STRPOS(RTargPos; RightCh; "1234567890")
// If there's a code on either side, or neither of the surrounding chars is a digit
IF ((LeftCh="") or (RightCh="") or ((LTargPos = 0) and (RTargPos = 0)))
// It's an Endash
DeleteCharPrevious()
TypeChar(CharacterSet:4; CharacterOffset:33)
ELSE
// It's a minus, leave it alone
ENDIF
// The only way out of this loop is the ONNOTFOUND trap
WHILE(True)
SearchNext()
PosCharPrevious()
GetWPData(MacroVariable:LeftCh;SystemVariable:LeftChar!)
PosCharNext()
GetWPData(MacroVariable:RightCh;SystemVariable:RightChar!)
STRPOS(LTargPos; LeftCh; "1234567890")
STRPOS(RTargPos; RightCh; "1234567890")
// If there's a code on either side, or neither of the surrounding chars is a digit
IF ((LeftCh="") or (RightCh="") or ((LTargPos = 0) and (RTargPos = 0)))
// It's an Endash
DeleteCharPrevious()
TypeChar(CharacterSet:4; CharacterOffset:33)
ELSE

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```
        // It's a minus, leave it alone
    ENDIF
ENDWHILE
LABEL(HyphenDone@)
    RETURN
```

```
//
*****
**
// ProcessHyphSRt@
//
// Insert [HyphSRt] codes after Emdashes and Endashes. This one's easy too.
//
LABEL(ProcessHyphSRt@)
// Do Emdashes
PosDocTop()
SearchReplace(SearchString:"—";
    SearchDirection:Forward!;
    ReplacementScope:Extended!;
    ReplacementString:"—";
    ReplacementAction:ReplaceAll!)
// Do Endashes
PosDocTop()
SearchReplace(SearchString:"-";
    SearchDirection:Forward!;
    ReplacementScope:Extended!;
    ReplacementString:"-";
    ReplacementAction:ReplaceAll!)
RETURN
```

```
//
*****
**
// End@
//
// Wrap things up and terminate
//
    LABEL(End@)
IF(RevCodes=True)
    RevealCodes(On!)
ENDIF
PosDocTop()
QUIT
```