```
// TYPESET.WCM — Replace ASCII quotation, apostrophe, and dash marks with typesetter-style marks,
//                    using characters from WP charsets 1 and 4.
//
//                              "foo"       becomes     "foo"
//                              'foo'       becomes     'foo'
//                              dad's       becomes     dads
//                              foo--bar    becomes     foo—bar
//
// For simplicity and speed—so that we needn't step through the doc character by character but can
// instead use Search—we do the job on quote marks in two passes: one for ASCII doublequotes and
// one for ASCII singlequotes/apostrophes.
//
// WARNING: 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.
//
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//
// Revision history
//      12 June 1992            RjR    Initial version
//      16 June 1992            RjR    Logic to distinguish between singlequotes and apostrophes,
//                              and loop unrolling for speed.
//      25 June 1992            RjR    Added conversion of dashes; changed name to TYPESET.WCM.
//

APPLICATION(WP;WPWP;Default)

// *****************************************************************
// Main
//
CALL(Init@)
CALL(ProcessDq@)
CALL(ProcessSq@)
CALL(ProcessDash@)
CALL(End@)
// NOTREACHED
QUIT


// *****************************************************************
```

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


    // ********************************************************************
    // ProcessDq@
    //
    // Convert all doublequotes.
    //
    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 macro's execution time.
SearchText(SearchString:"""";SearchDirection:Forward!;SearchScope:Extended!)
DeleteCharPrevious()
TypeChar(CharacterSet:4;CharacterOffset:30)
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:30)
                InQuote:=True
        ENDIF
ENDWHILE
LABEL(DqDone@)
    RETURN
```

```
// ****************************************************************
// ProcessSq@
//
// Convert singlequotes, but not those apparently used as apostrophes.
//
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 macro's execution time.
SearchText(SearchString:"'";SearchDirection:Forward!;SearchScope:Extended!)
// If the chars to the left and right of the singlequote are both alpha, this must be an apostrophe.
PosCharPrevious()
GetWPData(MacroVariable:LeftCh;SystemVariable:LeftChar!)
PosCharNext()
GetWPData(MacroVariable:RightCh;SystemVariable:RightChar!)
IF  (((((LeftCh >= "a") and (LeftCh <= "z")) or ((LeftCh >= "A") and (LeftCh <= "Z"))) and
(((RightCh >= "a") and (RightCh <= "z")) or ((RightCh >= "A") and (RightCh <= "Z"))))
        // It's an apostrophe
        DeleteCharPrevious()
        TypeChar(CharacterSet:1;CharacterOffset:9)
        InQuote:=False
ELSE
        // It's a singlequote
        DeleteCharPrevious()
        TypeChar(CharacterSet:4;CharacterOffset:27)
        InQuote:=True
ENDIF
// The only way out of this loop is the ONNOTFOUND trap
WHILE(True)
        SearchNext()
        // If the chars to the left and right of the singlequote are both alpha, this
    must be an apostrophe.
        PosCharPrevious()
        GetWPData(MacroVariable:LeftCh;SystemVariable:LeftChar!)
        PosCharNext()
        GetWPData(MacroVariable:RightCh;SystemVariable:RightChar!)
        IF  (((((LeftCh >= "a") and (LeftCh <= "z")) or ((LeftCh >= "A") and
    (LeftCh <= "Z"))) and
        (((RightCh >= "a") and (RightCh <= "z")) or ((RightCh >= "A") and
    (RightCh <= "Z"))))
                // It's an apostrophe
```

```
                    DeleteCharPrevious()
                    TypeChar(CharacterSet:1;CharacterOffset:9)
            ELSE
                    // It's a singlequote
                    DeleteCharPrevious()
                    IF (InQuote)
                            TypeChar(CharacterSet:4;CharacterOffset:28)
                            InQuote:=False
                    ELSE
                            TypeChar(CharacterSet:4;CharacterOffset:27)
                            InQuote:=True
                    ENDIF
            ENDIF
    ENDWHILE
    LABEL(SqDone@)
        RETURN


    // *********************************************************************
    // ProcessDash@
    //
    // Convert dashes.  This one's easy.
    //
    LABEL(ProcessDash@)
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
```