

## Recommendations of the source code working group for UTC #173

To: PAG  
From: Robin Leroy, Source code ad hoc working group  
Date: 2022-10-20

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The source code ad hoc working group was created by consensus [170-C2](#) of the UTC, on the recommendation of the Properties & Algorithms Group, as described in document [L2/22-007R2](#), section “Proposed Plan”, with Mark Davis as the chair.

The source code ad hoc working group recommends that the PAG recommend that the UTC take the following dispositions:

1. The UTC notes document [L2/22-233](#) “Process report from the source code working group”, but takes no further action.
2. **Consensus:** Accept the proposals in [L2/22-229](#) “Proposed changes to Unicode properties and reports for source code handling” for changes to the proposed updates of UAX #9, UAX #14, UAX #31, UTS #39, and UTS #51, to the property Other\_ID\_Continue, and to emoji variation sequences, for Unicode Version 15.1.
  - a. **Action Item** for Mark Davis, PAG: Add the zero width joiner and non-joiner to Other\_ID\_Continue and its derivative properties, as described in P/(A) of [L2/22-229](#), for Unicode Version 15.1.
  - b. **Action Item** for Mark Davis, ESC: Add sequences to emoji-variation-sequences.txt as described in section P/(B) of [L2/22-229](#), for Unicode Version 15.1.
  - c. **Action Item** for Mark Davis, PAG: incorporate the changes to UAX #9 described in [L2/22-229](#) into the proposed update, for Unicode Version 15.1.
  - d. **Action Item** for Robin Leroy, PAG: incorporate the changes to UAX #14 described in [L2/22-229](#) into the proposed update, for Unicode Version 15.1.
  - e. **Action Item** for Robin Leroy, PAG: incorporate the changes to UAX #31 described in [L2/22-229](#) into the proposed update, for Unicode Version 15.1.
  - f. **Action Item** for Mark Davis, PAG: incorporate the changes to UTS #39 described in [L2/22-229](#) into the proposed update, for Unicode Version 15.1.
  - g. **Action Item** for Mark Davis, ESC: incorporate the changes to UTS #51 described in [L2/22-229](#) into the proposed update, for Unicode Version 15.1.
  - h. **Action Item** for Robin Leroy, Murray Sargent, PAG: Incorporate a discussion of programming language identifiers into a future revision of UTR #25.
3. **Consensus:** Authorize a Proposed Draft Unicode Technical Standard #55, Unicode Source Code Handling, as described in document [L2/22-229](#) “Proposed changes to Unicode properties and reports for source code handling”, for Unicode Version 15.1.
  - a. **Action Item** for Robin Leroy, PAG: incorporate the text from [L2/22-229](#) into the proposed draft UTS, for Unicode Version 15.1.
  - b. **Action Item** for Mark Davis, PAG: Draft a proposed update of UTR #36 that incorporates references to the proposed UTS #55.
4. **Consensus:** Establish a Category A liaison between The Unicode Consortium and [ISO/IEC JTC 1/SC 22](#) (Programming languages, their environments and system software interfaces), with Robin Leroy as the liaison officer.
5. **Action Item** for Asmus Freytag, PAG: Add support for sequence-to-sequence confusables in UTS #39, for a future version of Unicode.

6. **Action Item** for Asmus Freytag, PAG: In UTS #39, define a mechanism that excludes intra-script confusions commonly distinct in fonts used in programming environments (**1/I/l/|**, **o/σ**, **0/O**), and recommend its usage in UTS #55, for a future version of Unicode.
7. **Action Item** for Asmus Freytag, PAG: Define a way to identify the characters with good confusable data regardless of their usage (perhaps as part of Identifier\_Type), and recommend its usage in UTS #55, for a future version of Unicode.