

Recommendations of the source code working group for UTC #173

To: PAG
From: Robin Leroy, Source code ad hoc working group
Date: 2022-11-03

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. Dispositions that have already been taken as of the publication of this revision are struck through.

1. ~~Action Item for Mark Davis, UTC: Forward the recommendations in [L2/22-233](#) to the TC chairs for consideration in reform of the TC procedures.~~
2. **Consensus:** Accept the proposals in [L2/22-229R](#) “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 [L2/22-229R](#), 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 [L2/22-229R](#), for Unicode Version 15.1.
 - c. **Action Item** for Mark Davis, PAG: incorporate the changes to UAX #9 described in [L2/22-229R](#) into the proposed update, for Unicode Version 15.1.
 - d. **Action Item** for Robin Leroy, PAG: incorporate the changes to UAX #14 described in [L2/22-229R](#) into the proposed update, for Unicode Version 15.1.
 - e. **Action Item** for Robin Leroy, PAG: incorporate the changes to UAX #31 described in [L2/22-229R](#) into the proposed update, for Unicode Version 15.1.
 - f. **Action Item** for Mark Davis, PAG: incorporate the changes to UTS #39 described in [L2/22-229R](#) into the proposed update, for Unicode Version 15.1.
 - g. **Action Item** for Mark Davis, ESC: incorporate the changes to UTS #51 described in [L2/22-229R](#) into the proposed update, for Unicode Version 15.1.
 - h. **Action Item** for Mark Davis, PAG: Work with the ESC to provide recommendations for emoji stability.
 - i. **Action Item** for Mark Davis, PAG: Work with the ESC to develop data that shows the set PSEP and the corresponding mapping to sequences, as defined in the proposed Section 7.2 of UAX #31 from document [L2/22-229R](#).
 - j. **Action Item** for Asmus Freytag, 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 [L2/22-229R](#) “Proposed changes to Unicode properties and reports for source code handling”, for release at the same time as Unicode Version 15.1.
 - a. **Action Item** for Robin Leroy, PAG: incorporate the text from [L2/22-229R](#) into the proposed draft UTS, for release at the same time as Unicode Version 15.1.
 - b. **Action Item** for Ken Whistler, EDC: Add a reference to UTS #55 to UAX #41, for Unicode Version 15.1.

- c. **Action Item** for Mark Davis, PAG: Draft a proposed update of UTR #36 that incorporates references to the proposed UTS #55.
4. The UTC notes documents [L2/22-230](#) “Mathematical notation profile for default identifiers”, [L2/22-231R](#) “Mixed-script detection in identifier chunks”, and [L2/22-232](#) “Unicode identifier styles”, but takes no further action.

Note: These are rationales for some of the proposals in [L2/22-229R](#).
5. **Consensus:** The UTC recommends to the officers that they 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.
6. **Action Item** for Asmus Freytag, PAG: Add support for sequence-to-sequence confusables in UTS #39, for a future version of Unicode.
7. **Action Item** for Asmus Freytag, PAG: In UTS #39, define a style of confusable detection that does not treat as confusable those characters that are commonly used together and are distinct in fonts used in programming environments ($1/I/1/|$, o/σ , θ/O), and recommend its usage in UTS #55, for a future version of Unicode.
8. **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.
9. Document [L2/22-267](#) “Comments on L2/22-230 “Mathematical notation profile for default identifiers”” is a late contribution which requires further discussion within the SCWG.