Recommendations of the source code working group for UTC #173

To: PAG
From: Robin Leroy, Source code ad hoc working group
Date: 2022-10-28

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 L2/22-229R "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 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 Unicode Version 15.1.

    a. **Action Item** for Robin Leroy, PAG: incorporate the text from L2/22-229R 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. 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/l/|`, `o/σ`, `0/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.