

Ruby Overhang Control

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tts:rubyOverhang      ; default initial value: allow
: none                ; prevent overhang by inserting filler
                      ; before and after base as needed
| allow               ; allow overhang conditionally, in accordance with
                      ; applicable ruby overhang class
| always              ; always overhang, but prevent overlap by inserting
                      ; fill between bases as needed
| overlap             ; always overhang, allowing overlap of ruby areas
                      ; (thus requiring manual whitespace insertion
                      ; or padding to correct)

tts:rubyOverhangClass ; default initial value: auto
: auto                ; [TBD]
| (characterClassNamed | characterClass)+

tts:rubyOverflow       ; default initial value: shiftRuby
: shiftRuby           ; prevent region overflow by relaxing ruby to base
                      ; alignment (inset ruby as required while maintaining
                      ; base to line edge alignment)
| shiftBase           ; prevent region overflow by relaxing base to line
                      ; edge alignment (inset base to preserve ruby to base
                      ; alignment)
| overflow             ; allow ruby to overflow region in inline progression
                      ; dimension while preserving ruby to base alignment

characterClassNamed
| openBrackets         ; JLREQ c1-1
| closeBrackets        ; JLREQ c1-2
| hyphens              ; JLREQ c1-3
| punctuationMarks     ; JLREQ c1-4
| middleDots           ; JLREQ c1-5
| fullStops            ; JLREQ c1-6
| commas               ; JLREQ c1-7
| inseparables         ; JLREQ c1-8
| iterationMarks       ; JLREQ c1-9
| soundMarks           ; JLREQ c1-10
| smallKana            ; JLREQ c1-11
| preAbbreviations     ; JLREQ c1-12
| postAbbreviations    ; JLREQ c1-13
| ideographicSpace     ; JLREQ c1-14
| hiragana             ; JLREQ c1-15
| katakana             ; JLREQ c1-16
| mathSymbols          ; JLREQ c1-17
| mathOperators        ; JLREQ c1-18
| ideographic          ; JLREQ c1-19    N.B. includes some characters that are

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        ; not in any \p{InCJK*} character block class
| groupedNumerals      ; JLREQ c1-24
| unitSymbols          ; JLREQ c1-25
| westernWordSpace     ; JLREQ c1-26
| western              ; JLREQ c1-27
| openWarichu          ; JLREQ c1-28
| closeWarichu         ; JLREQ c1-29

characterClass          ; unescaped whitespace prohibited
: '[' (classCharacterRange | classCharacter)+ ']'

classCharacterRange
: classCharacter '-' classCharacter

classCharacter
: escape
| { char - { specials } }

escape
: '\\u' hexDigit{6}      ; exactly 6 hex digits
| '\\u' hexDigit{4}      ; exactly 4 hex digits
| '\\ ' char

specials
: '-'
| ']'
| '\\'
| '\"'
| whitespace

whitespace
: ' '
| '\t'
| '\n'
| '\r'

```

Changes

- Clarify that `tts:rubyOverflow='overflow'` means overflow in the inline progression dimension.
- Ensure `characterClass` is non-empty.
- Add character class range syntax, e.g., `A-Z`.
- Exclude XML whitespace from character class expression.
- Unicode escape must be exactly 4 or 6 hex digits, and not 5 digits.