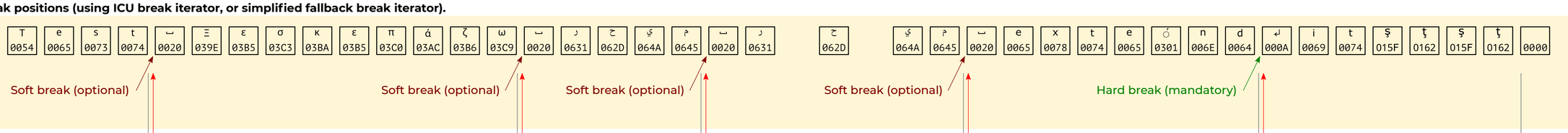
2. Line breaking.

2.1. Locate valid break positions (using ICU break iterator, or simplified fallback break iterator).



2.2. Reorder clusters in the logical order. (sort by code unit positions)

2.3.2. Break line at to last fitting valid break.

Last fitting valid break

2.3. Fit to target width.

2.3.1. Measure clusters until target width is reached.

Width

2.3.3. If mandatory break is encountered break at any line width.

Mandatory break

EOL

ICU Break iterator API
ICU Boundary Analysis
UAX #14: Unicode Line Breaking Algorithm

Some languages don't use spaces between the words. เป็นภาษาราชการและ

Line bounds:

Line 1: 0...4
Line 2: 5...14
Line 3: 15...19
Line 4: 20...24
Line 5: 25...31
Line 6: 33...39

2.4. Rerun BiDi on each line.

Rerun BiDi and reshape each line:

Script runs can be reused.
ICU BiDi context (but not BiDi algorithm results!) can be reused as well.

2.4. Reuse shaped graphemes to compose new line.

1

Output

Test
Ξεσκεπάζω
رحيم
رحيم
exténd
itşţşț

Test Ξεσκεπάζω رحيم رحيم exténd itşţşț

Run order changed after line breaking!