Handling Long Lines in Artwork in Drafts

draft-kwatsen-netmod-artwork-folding-06(basis)
draft-wu-netmod-yang-xml-doc-conventions-05

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Status

• Presented in IETF 101, London, strong support for trying to solve the problem and mixed views on the solution.

• Kent submitted artwork-folding as an alternative solution in May 29, 2018 after IETF 101.

• Artwork-folding and xml-doc-conventions were consolidated into one draft in June and use artwork-folding as basis and have received strong support to adopt this work as WG draft.
  – Thanks Martin Bjorklund, Robert Wilton, Jonathan Hansford, joel jaeggli, for input and discussion(discussing points are summarized in the later slides).

• The changes to the previous versions
  – Define folding structure including(header, body), but not including footer
  – Add script for long line folding or wrapping.
  – Add coauthors from xml-doc-conventions draft
  – Remove torture tests from the draft
Issue1# Auto indentation support

• Goal:
  – Use indentation to improve readability during long line wrapping.
  – Focus on folding on XML or JSON snippets with long identifier names, source code snippets
• E.g., Folding doesn’t work well for UML diagram

• Proposals:
  1: left-indent w/ fixed offset (e.g., 0 in current or 2 in draft-wu)
  2: left-indent w/ fixed offset relative to previous line
  3: variable indent using two markers
  4: right-indent with zero offset
Proposal 1: left-indent w/ 2-space offset

Before folding:
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>

After folding:
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>

• Pro:
  – '\ character placement can be "fixed" or "variable"
    • (note: variable supports Martin's "semi-manual" approach)

• Con:
  – None.
Proposal 2: left-indent w/ 2-space offset related to previous line, unless already in a folded line.

• Before folding:
  <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>
After folding:
  <namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>  //e.g., indent with 2 characters offset

• Pro:
  – '\' character placement can be "fixed" or "variable"
    • (note: variable supports Martin's "semi-manual" approach)
• Con:
  – Different from proposal 1, the position of start character in the above line needs to be identified first.
Proposal 3: variable indent using two markers

- Before folding:
  `<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>`
- After folding:
  `<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</n
  
  //marker one with ‘/’

  
  
  
  
  //maker two with ‘/’

- Pro:
  - Where everything between and including the two ‘\’ characters is stripped
  - Support variable-length indentation to enhance readability

- Con:
  - This approach is not conventional;
  - marker-2 might be weird/surprising to the average/lazy reader.
  - It might produce less readable result when a very long line is folded multiple times.
Proposal 4: right-indent w/ zero offset

Before folding:
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace>

After folding:
<namespace>urn:ietf:params:xml:ns:yang:ietf-yang-types</namespace> //right indentation

Pro:
- Use right indentation to enhance readability

Con:
- This approach is not conventional;
  - Whether left-indent or right-indent is implementation specific.
Issue 2# : Artwork auto extraction support

- Artwork auto extraction
  - The current draft supports artwork header and artwork body structure definition and doesn’t include footer;
  - Without Footer, it is hard to know where artwork ends and therefore it is hard to support artwork auto extraction;
  - The current header is not dedicated designed for auto extraction, instead, the header is used to determine maximized line length.
  - The footer format proposal:

    ```
    ===padding=== End Folding per BCP XX (RFC XXXX) ===padding===
    ```

- Proposal:
  - a) keep as it is
  - b) add footer support for artwork auto extraction.
Follow Up

• Request to accept draft as WG item
  – Got already supporters on the list
  – Folding is a good basis now.

• Issue a new revision to incorporate additional features based on feedback in the meeting after becoming WG draft.