<abbrev> [spec](#)

Sort of a bad guy,
because it has no explicit means to separate
the rendered, abbreviated content from its expansion

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, def, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

<abbrev-journal-title> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  journal-title-group

[spec](#)

- children:

  ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, object-id, p, preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  app-group, article-meta, chem-struct-wrap, disp-formula, disp-formula-group, fig, fig-group, front-stub, graphic, media, sec-meta, statement, supplementary-material, table-wrap, table-wrap-group

~~\<access-date> spec~~

- ~~children:~~

  ~~TEXT, day, era, month, season, x, year~~

- ~~parents:~~

  ~~nlm-citation~~

\<ack> spec

- children:

  ~~ack~~, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, p, preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  abstract, ~~ack~~, app, app-group, back, bio, body, boxed-text, disp-quote, front, glossary, ~~license-p~~, ~~named-content~~, notes, ~~p~~, ref-list, sec, ~~styled-content~~, trans-abstract

\<addr-line> spec

This should be text-only.
Otherwise it is an invitation used it mixed with structural elements

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, city, country, email, ext-link, fax, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, phone, postal-code, private-char, related-article, related-object, roman, ruby, sans-serif, sc, state, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  address, aff, collab, conf-loc, corresp, publisher-loc

\<address> spec

- children:

  addr-line, city, country, email, ext-link, fax, institution, institution-wrap, label, phone, postal-code, state, uri, x

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, collab, contrib, contrib-group, disp-quote, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, trans-abstract

\<aff> spec

Avoid mixing structured and textual representation.
Use \<aff-alternatives> to provide a prerendered version
via \<x>

- children:

  TEXT, abbrev, addr-line, alternatives, bold, break, chem-struct, city, country, email, ext-link, fax, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, label, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, phone, postal-code, private-char, related-article, related-object, roman, ruby, sans-serif, sc, state, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  aff-alternatives, article-meta, collab, contrib, contrib-group, front-stub, journal-meta, person-group, sig-block

\<aff-alternatives\> [spec](#)

- children:

  aff

- parents:

  article-meta, collab, contrib, contrib-group, front-stub, journal-meta, person-group, sig-block

\<alt-text\> [spec](#)

- children:

  TEXT

- parents:

  array, chem-struct, chem-struct-wrap, disp-formula, disp-formula-group, fig, fig-group, graphic, inline-graphic, inline-supplementary-material, media, preformat, supplementary-material, table-wrap, table-wrap-group

\<alt-title\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  title-group

\<alternatives\> [spec](#)

- children:

This is sort of a bad guy:
Used inline and block, without a good restriction on the allowed parent elements.

array, chem-struct, code, graphic, inline-graphic, inline-supplementary-material, media, preformat, private-char, supplementary-material, table, tex-math, textual-form

- parents:

abbrev, abbrev-journal-title, abstract, ack, addr-line, aff, alt-title, anonymous, app, app-group, array, article-title, attrib, award-id, bio, body, bold, boxed-text, chapter-title, chem-struct, chem-struct-wrap, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, disp-quote, edition, element-citation, email, etal, ext-link, fax, fig, fig-group, fixed-case, floats-group, funding-source, funding-statement, given-names, glossary, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, notes, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, ref-list, related-article, related-object, role, roman, sans-serif, sc, sec, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, supplementary-material, surname, table-wrap, target, td, term, term-head, th, title, trans-abstract, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

<annotation> spec

- children:

p   Allow for more block-level types (e.g. lists)

- parents:

element-citation, mixed-citation, nlm-citation, product, related-article, related-object

<anonymous> spec

- children:

TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref   This is very unrestrictive

- parents:

contrib, person-group

<app> spec

- children:

ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, p, permissions, preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  app-group

<app-group> [spec](#)

- children:

  abstract, ack, address, alternatives, app, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, graphic, kwd-group, label, list, media, p, preformat, ref-list, related-article, related-object, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  back

<array> [spec](#)

- children:

  alt-text, alternatives, attrib, email, ext-link, graphic, label, long-desc, media, permissions, tbody, uri

- parents:

  abstract, ack, alternatives, app, app-group, bio, body, boxed-text, chem-struct, disp-formula, disp-quote, fig, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, td, term, th, trans-abstract

<article> [spec](#)

- children:

  back, body, floats-group, front, response, sub-article

<article-categories> [spec](#)

- children:

  series-text, series-title, subj-group

- parents:

  article-meta, front-stub

<article-id> [spec](#)

- children:

  TEXT

- parents:

<article-meta> [spec](#)

- children:

  abstract, aff, aff-alternatives, article-categories, article-id, author-notes, conference, contrib-group, counts, custom-meta-group, elocation-id, email, ext-link, fpage, funding-group, history, isbn, issue, issue-id, issue-part, issue-sponsor, issue-title, kwd-group, lpage, page-range, permissions, product, pub-date, related-article, related-object, self-uri, supplement, supplementary-material, title-group, trans-abstract, uri, volume, volume-id, volume-issue-group, volume-series, x

- parents:

  front

<article-title> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, nlm-citation, product, related-article, related-object, title-group

<attrib> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  array, boxed-text, chem-struct-wrap, disp-formula, disp-quote, fig, graphic, media, preformat, statement, supplementary-material, table-wrap, table-wrap-foot, verse-group

<author-comment> [spec](#)

- children:

  p, title

- parents:

collab, contrib, contrib-group

<author-notes> [spec](#)

- children:

  corresp, fn, label, p, title, x

- parents:

  article-meta, front-stub

<award-group> [spec](#)

- children:

  award-id, funding-source, principal-award-recipient, principal-investigator

- parents:

  funding-group

<award-id> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  award-group, funding-statement, license-p, p

<back> [spec](#)

- children:

  ack, app-group, bio, fn-group, glossary, label, notes, ref-list, sec, title

- parents:

  article, response, sub-article

<bio> [spec](#)

- children:

  ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, p,

preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

back, collab, contrib, contrib-group, front

<body> spec

- children:

ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, graphic, list, media, p, preformat, related-article, related-object, sec, sig-block, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, verse-group, x

- parents:

article, response, sub-article

<bold> spec

- children:

TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

<boxed-text> spec

- children:

ack, address, alternatives, array, attrib, boxed-text, caption, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, object-id, p, permissions, preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, verse-group, x

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, trans-abstract

<break> spec

- parents:

  aff, alt-title, article-title, attrib, bold, chapter-title, chem-struct, collab, compound-kwd-part, corresp, disp-formula, fixed-case, history, institution, italic, kwd, label, monospace, overline, part-title, product, publisher-loc, related-article, related-object, roman, sans-serif, sc, sig, sig-block, source, std-organization, strike, sub, subject, subtitle, sup, target, td, th, title, trans-source, trans-subtitle, trans-title, underline, xref

<caption> spec

- children:

  p, title   Should allow for more block-level types

- parents:

  boxed-text, chem-struct-wrap, disp-formula-group, fig, fig-group, graphic, media, supplementary-material, table-wrap, table-wrap-group

<chapter-title> spec

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, product, related-article, related-object

<chem-struct> spec

- children:

  TEXT, abbrev, alt-text, alternatives, array, bold, break, chem-struct, code, def-list, email, ext-link, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, label, list, long-desc, media, milestone-end, milestone-start, monospace, named-content, object-id, overline, overline-end, overline-start, preformat, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

abbrev, abbrev-journal-title, addr-line, aff, alt-title, alternatives, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, chem-struct-wrap, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

\<chem-struct-wrap> spec

- children:

  abstract, alt-text, alternatives, attrib, caption, chem-struct, code, email, ext-link, graphic, kwd-group, label, long-desc, media, object-id, permissions, preformat, textual-form, uri

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, fig, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap, td, term, th, trans-abstract

\<citation-alternatives> spec

- children:

  element-citation, mixed-citation, ~~nlm-citation~~

- parents:

  ~~license-p, p~~, ref, ~~td, th, title~~

\<city> spec

- children:

  TEXT

- parents:

  addr-line, address, aff, collab, conf-loc, corresp, publisher-loc

\<code> spec

- children:

  TEXT, abbrev, bold, email, ext-link, fixed-case, fn, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, roman, ruby, sans-serif, sc, strike, styled-content,

sub, sup, target, underline, underline-end, underline-start, uri, xref

- parents:

abstract, ack, alternatives, app, app-group, bio, body, boxed-text, chem-struct, chem-struct-wrap, disp-formula, disp-quote, fig, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap, td, term, th, trans-abstract

<col> [spec](#)

- parents:

colgroup, table

<colgroup> [spec](#)

- children:

col

<collab> [spec](#)

- children:

TEXT, abbrev, addr-line, address, aff, aff-alternatives, alternatives, author-comment, bio, bold, break, chem-struct, city, contrib-group, country, email, etal, ext-link, fax, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, on-behalf-of, overline, overline-end, overline-start, phone, postal-code, private-char, related-article, related-object, role, roman, ruby, sans-serif, sc, state, strike, styled-content, sub, sup, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

collab-alternatives, contrib, element-citation, mixed-citation, nlm-citation, person-group, product, related-article, related-object

<collab-alternatives> [spec](#)

- children:

collab

- parents:

contrib, element-citation, mixed-citation, person-group, product, related-article, related-object

<comment> [spec](#)

- children:

TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-

content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, nlm-citation, product, related-article, related-object

\<compound-kwd\> [spec](#)

- children:

  compound-kwd-part

- parents:

  kwd-group, nested-kwd

\<compound-kwd-part\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  compound-kwd

\<compound-subject\> [spec](#)

- children:

  compound-subject-part

- parents:

  subj-group

\<compound-subject-part\> [spec](#)

- children:

  TEXT, alternatives, bold, chem-struct, fixed-case, inline-formula, inline-graphic, italic, monospace, named-content, overline, overline-end, overline-start, private-char, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, underline, underline-end, underline-start

- parents:

  compound-subject

<conf-acronym> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  conference, element-citation, mixed-citation, product, related-article, related-object, string-conf

<conf-date> [spec](#)

- children:

  TEXT, day, era, month, season, x, year

- parents:

  conference, element-citation, mixed-citation, nlm-citation, product, related-article, related-object, string-conf

<conf-loc> [spec](#)

- children:

  TEXT, abbrev, addr-line, alternatives, bold, chem-struct, city, country, email, ext-link, fax, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, phone, postal-code, private-char, related-article, related-object, roman, ruby, sans-serif, sc, state, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  conference, element-citation, mixed-citation, nlm-citation, product, related-article, related-object, string-conf

<conf-name> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

conference, element-citation, mixed-citation, nlm-citation, product, related-article, related-object, string-conf

\<conf-num\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  conference, string-conf

\<conf-sponsor\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  conference, element-citation, mixed-citation, product, related-article, related-object, string-conf

\<conf-theme\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  conference, string-conf

\<conference\> [spec](#)

- children:

  conf-acronym, conf-date, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, string-conf, x

- parents:

article-meta, front-stub

<contrib> [spec](#)

- children:

  address, aff, aff-alternatives, anonymous, author-comment, bio, collab, collab-alternatives, contrib-id, degrees, email, etal, ext-link, fn, name, name-alternatives, on-behalf-of, role, string-name, uri, x, xref

- parents:

  contrib-group, sig-block

<contrib-group> [spec](#)

- children:

  address, aff, aff-alternatives, author-comment, bio, contrib, email, etal, ext-link, fn, on-behalf-of, role, uri, x, xref

- parents:

  article-meta, collab, front-stub, journal-meta, sec-meta, supplement

<contrib-id> [spec](#)

- children:

  TEXT

- parents:

  contrib, principal-award-recipient, principal-investigator

<copyright-holder> [spec](#)

- children:

  TEXT, institution, institution-wrap, sub, sup, x

- parents:

  permissions

<copyright-statement> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby,

sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  permissions

\<copyright-year> [spec](#)

- children:

  TEXT

- parents:

  permissions

\<corresp> [spec](#)

- children:

  TEXT, abbrev, addr-line, alternatives, bold, break, chem-struct, city, country, email, ext-link, fax, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, label, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, phone, postal-code, private-char, related-article, related-object, roman, ruby, sans-serif, sc, state, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  author-notes

\<count> [spec](#)

- parents:

  counts

\<country> [spec](#)

- children:

  TEXT, x

- parents:

  addr-line, address, aff, collab, conf-loc, corresp, publisher-loc

\<counts> [spec](#)

- children:

count, equation-count, fig-count, page-count, ref-count, table-count, word-count

- parents:

article-meta, front-stub

<custom-meta> spec

- children:

meta-name, meta-value

- parents:

custom-meta-group

<custom-meta-group> spec

- children:

custom-meta

- parents:

article-meta, front-stub, journal-meta

<data-title> spec

- children:

TEXT, bold, email, ext-link, fixed-case, italic, monospace, named-content, overline, overline-end, overline-start, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, underline, underline-end, underline-start, uri

- parents:

element-citation, mixed-citation, product, related-article, related-object

<date> spec

- children:

day, era, month, season, string-date, year

- parents:

element-citation, history, mixed-citation, product, related-article, related-object

<date-in-citation> spec

- children:

TEXT, bold, day, era, fixed-case, italic, monospace, month, overline, overline-end, overline-start, roman, ruby, sans-serif, sc, season, strike, underline, underline-end, underline-start, x, year

- parents:

  element-citation, mixed-citation, product, related-article, related-object

<day> [spec](#)

- children:

  TEXT

- parents:

  access-date, conf-date, date, date-in-citation, element-citation, mixed-citation, nlm-citation, product, pub-date, related-article, related-object, std, string-date, time-stamp

<def> [spec](#)

- children:

  p

- parents:

  abbrev, def-item

<def-head> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  def-list

<def-item> [spec](#)

- children:

  def, label, term, x

- parents:

  def-list

<def-list> [spec](#)

- children:

  def-head, def-item, def-list, label, term-head, title, x

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, chem-struct, def-list, disp-quote, fig, front, glossary, license-p, list-item, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap, td, th, trans-abstract

<degrees> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  contrib, speaker, string-name

<disp-formula> [spec](#)

- children: Do not mix textual and structured content here

  TEXT, abbrev, abstract, alt-text, alternatives, array, attrib, bold, break, chem-struct, code, email, ext-link, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, kwd-group, label, long-desc, media, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, permissions, preformat, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-formula-group, disp-quote, fig, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, td, term, th, trans-abstract

<disp-formula-group> [spec](#)

- children:

  abstract, alt-text, caption, disp-formula, disp-formula-group, email, ext-link, kwd-group, label, long-desc, uri

- parents:

abstract, ack, app, app-group, bio, body, boxed-text, disp-formula-group, disp-quote, fig, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, td, term, th, trans-abstract

<disp-quote> [spec](#)

- children:

  ack, address, alternatives, array, attrib, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, graphic, label, list, media, p, permissions, preformat, related-article, related-object, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, fig, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap, trans-abstract

<edition> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, nlm-citation, product, related-article, related-object

<element-citation> [spec](#)

- children:

  abbrev, alternatives, annotation, article-title, bold, chapter-title, chem-struct, collab, collab-alternatives, comment, conf-acronym, conf-date, conf-loc, conf-name, conf-sponsor, data-title, date, date-in-citation, day, edition, elocation-id, email, etal, ext-link, fixed-case, fn, fpage, gov, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, isbn, issn, issn-l, issue, issue-id, issue-part, issue-title, italic, label, lpage, milestone-end, milestone-start, monospace, month, name, name-alternatives, named-content, object-id, overline, overline-end, overline-start, page-range, part-title, patent, person-group, private-char, pub-id, publisher-loc, publisher-name, related-article, related-object, role, roman, ruby, sans-serif, sc, season, series, size, source, std, strike, string-date, string-name, styled-content, sub, sup, supplement, target, tex-math, trans-source, trans-title, underline, underline-end, underline-start, uri, version, volume, volume-id, volume-series, x, xref, year

- parents:

  citation-alternatives, license-p, p, ref, td, th, title

<elocation-id> [spec](#)

- children:

  TEXT

- parents:

  article-meta, element-citation, front-stub, mixed-citation, product, related-article, related-object

<email> spec

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abbrev, abbrev-journal-title, addr-line, address, aff, alt-title, anonymous, array, article-meta, article-title, attrib, award-id, bold, chapter-title, chem-struct, chem-struct-wrap, code, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, contrib, contrib-group, copyright-statement, corresp, data-title, def-head, degrees, disp-formula, disp-formula-group, edition, element-citation, email, etal, ext-link, fax, fig, fig-group, fixed-case, front-stub, funding-source, funding-statement, given-names, gov, graphic, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, media, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, supplementary-material, surname, table-wrap, table-wrap-group, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

<equation-count> spec

- parents:

  counts

<era> spec

- children:

  TEXT

- parents:

  access-date, conf-date, date, date-in-citation, pub-date, string-date, time-stamp

<etal> spec

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  collab, contrib, contrib-group, element-citation, mixed-citation, person-group, product, related-article, related-object, sig-block

\<ext-link\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abbrev, abbrev-journal-title, addr-line, address, aff, alt-title, anonymous, array, article-meta, article-title, attrib, award-id, bold, chapter-title, chem-struct, chem-struct-wrap, code, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, contrib, contrib-group, copyright-statement, corresp, data-title, def-head, degrees, disp-formula, disp-formula-group, edition, element-citation, email, etal, ext-link, fax, fig, fig-group, fixed-case, front-stub, funding-source, funding-statement, given-names, gov, graphic, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, media, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, supplementary-material, surname, table-wrap, table-wrap-group, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

\<fax\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  addr-line, address, aff, collab, conf-loc, corresp, publisher-loc

<fig> [spec](#)

- children:

  abstract, alt-text, alternatives, array, attrib, caption, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, email, ext-link, graphic, kwd-group, label, list, long-desc, media, object-id, p, permissions, preformat, speech, statement, table-wrap, uri, verse-group

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, fig-group, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, trans-abstract

<fig-count> [spec](#)

- parents:

  counts

<fig-group> [spec](#)

- children:

  abstract, alt-text, alternatives, caption, email, ext-link, fig, graphic, kwd-group, label, long-desc, media, uri

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, trans-abstract

<fixed-case> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf,

string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<floats-group> [spec](#)

- children:

  alternatives, boxed-text, chem-struct-wrap, code, fig, fig-group, graphic, media, preformat, supplementary-material, table-wrap, table-wrap-group

- parents:

  article, response, sub-article

\<fn> [spec](#)

- children:

  label, p

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, author-notes, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, contrib, contrib-group, copyright-statement, corresp, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, fn-group, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, table-wrap-foot, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

\<fn-group> [spec](#)

- children:

  fn, label, title, x

- parents:

  abstract, ack, app, back, bio, boxed-text, front, notes, sec, table-wrap-foot, title-group, trans-abstract

\<fpage> [spec](#)

- children:

  TEXT

- parents:

article-meta, element-citation, front-stub, mixed-citation, nlm-citation, product, related-article, related-object

<front> [spec](#)

- children:

ack, article-meta, bio, def-list, fn-group, glossary, journal-meta, list, notes

- parents:

article, response, sub-article

<front-stub> [spec](#)

- children:

abstract, aff, aff-alternatives, article-categories, article-id, author-notes, conference, contrib-group, counts, custom-meta-group, elocation-id, email, ext-link, fpage, funding-group, history, isbn, issue, issue-id, issue-part, issue-sponsor, issue-title, kwd-group, lpage, page-range, permissions, product, pub-date, related-article, related-object, self-uri, supplement, supplementary-material, title-group, trans-abstract, uri, volume, volume-id, volume-issue-group, volume-series, x

- parents:

response, sub-article

<funding-group> [spec](#)

- children:

award-group, funding-statement, open-access

- parents:

article-meta, front-stub

<funding-source> [spec](#)

- children:

TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

award-group, funding-statement, license-p, p

<funding-statement> [spec](#)

- children:

  TEXT, abbrev, alternatives, award-id, bold, chem-struct, email, ext-link, fixed-case, fn, funding-source, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, open-access, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  funding-group

<given-names> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  name, speaker, string-name

<glossary> [spec](#)

- children:

  ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, glossary, graphic, label, list, media, p, preformat, related-article, related-object, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  abstract, ack, app, back, bio, boxed-text, front, glossary, notes, sec, trans-abstract

<glyph-data> [spec](#)

- children:

  TEXT

- parents:

  private-char

<glyph-ref> [spec](#)

- parents:

  private-char

<gov> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, product, related-article, related-object

<graphic> [spec](#)

- children:

  abstract, alt-text, attrib, caption, email, ext-link, kwd-group, label, long-desc, object-id, permissions, uri

- parents:

  abstract, ack, alternatives, app, app-group, array, bio, body, boxed-text, chem-struct, chem-struct-wrap, disp-formula, disp-quote, fig, fig-group, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, sig, sig-block, styled-content, supplementary-material, table-wrap, td, term, th, trans-abstract

<history> [spec](#)

- children:

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- parents:

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- parents:

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given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

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\<inline-graphic\> [spec](#)

- children:

  alt-text

- parents:

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<institution> [spec](#)

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- parents:

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<institution-id> [spec](#)

- children:

  TEXT

- parents:

  institution-wrap

\<institution-wrap> [spec](#)

- children:

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- parents:

  addr-line, address, aff, collab, conf-loc, conf-sponsor, copyright-holder, corresp, element-citation, funding-source, mixed-citation, on-behalf-of, principal-award-recipient, product, publisher-loc, publisher-name, related-article, related-object, std-organization

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\<issue-id\> [spec](#)

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- parents:

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- children:

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- parents:

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- children:

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- parents:

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- children:

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- parents:

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- parents:

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- parents:

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- parents:

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- parents:

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- parents:

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- parents:

citation-alternatives, license-p, p, ref, td, th, title

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series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

<month> [spec](#)

- children:

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- parents:

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- children:

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This is an annotation

- children:

  TEXT, abbrev, ack, address, alternatives, array, bold, boxed-text, chem-struct, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, email, ext-link, fig, fig-group, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, list, media, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, preformat, private-char, related-article, related-object, roman, ruby, sans-serif, sc, speech, statement, strike, styled-content, sub, sup, supplementary-material, table-wrap, table-wrap-group, target, tex-math, underline, underline-end, underline-start, uri, verse-group, x, xref

- parents:

abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

<nested-kwd> [spec](#)

- children:

  compound-kwd, kwd, nested-kwd

- parents:

  kwd-group, nested-kwd

<nlm-citation> [spec](#)

- children:

  access-date, annotation, article-title, collab, comment, conf-date, conf-loc, conf-name, day, edition, fpage, issue, lpage, month, page-count, patent, person-group, pub-id, publisher-loc, publisher-name, season, series, source, supplement, time-stamp, trans-source, trans-title, volume, year

- parents:

  citation-alternatives, license-p, p, ref, td, th, title

<note> [spec](#)

- children:

  label, p, product

- parents:

  ref

<notes> [spec](#)

- children:

  ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, p,

preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  abstract, ack, app, back, bio, boxed-text, front, journal-meta, notes, sec, trans-abstract

<object-id> spec

- children:

  TEXT

- parents:

  abstract, boxed-text, chem-struct, chem-struct-wrap, element-citation, fig, graphic, media, mixed-citation, product, related-article, related-object, supplementary-material, table-wrap, trans-abstract

<on-behalf-of> spec

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  collab, contrib, contrib-group

<open-access> spec

- children:

  p

- parents:

  funding-group, funding-statement, license-p, p

<overline> spec

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<overline-end\> spec

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<overline-start\> spec

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<p\> spec   Phrasing content only

- children:

TEXT, abbrev, ack, address, alternatives, array, award-id, bold, boxed-text, chem-struct, chem-struct-wrap, citation-alternatives, code, def-list, disp-formula, disp-formula-group, disp-quote, element-citation, email, ext-link, fig, fig-group, fixed-case, fn, funding-source, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, list, media, milestone-end, milestone-start, mixed-citation, monospace, named-content, nlm-citation, open-access, overline, overline-end, overline-start, preformat, private-char, related-article, related-object, roman, ruby, sans-serif, sc, speech, statement, strike, styled-content, sub, sup, supplementary-material, table-wrap, table-wrap-group, target, tex-math, underline, underline-end, underline-start, uri, verse-group, x, xref

- parents:

  abstract, ack, annotation, app, app-group, author-comment, author-notes, bio, body, boxed-text, caption, def, disp-quote, fig, fn, glossary, list-item, note, notes, open-access, ref-list, sec, speech, statement, supplementary-material, table-wrap-foot, td, th, trans-abstract

<page-count> [spec](#)

- parents:

  counts, nlm-citation

<page-range> [spec](#)

- children:

  TEXT

- parents:

  article-meta, element-citation, front-stub, mixed-citation, product, related-article, related-object

<part-title> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, product, related-article, related-object

<patent> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby,

sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

    element-citation, mixed-citation, nlm-citation, product, related-article, related-object

<permissions> spec

- children:

    copyright-holder, copyright-statement, copyright-year, license

- parents:

    app, array, article-meta, boxed-text, chem-struct-wrap, disp-formula, disp-quote, fig, front-stub, graphic, media, preformat, sec-meta, statement, supplementary-material, table-wrap, table-wrap-foot, verse-group

<person-group> spec

- children:

    TEXT, aff, aff-alternatives, anonymous, collab, collab-alternatives, etal, name, name-alternatives, role, string-name, x

- parents:

    element-citation, mixed-citation, nlm-citation, product, related-article, related-object

<phone> spec

- children:

    TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

    addr-line, address, aff, collab, conf-loc, corresp, publisher-loc

<postal-code> spec

- children:

    TEXT

- parents:

    addr-line, address, aff, collab, conf-loc, corresp, publisher-loc

\<prefix\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  name, speaker, string-name

\<preformat\> [spec](#)

- children:

  TEXT, abbrev, alt-text, alternatives, attrib, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, long-desc, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, permissions, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abstract, ack, alternatives, app, app-group, bio, body, boxed-text, chem-struct, chem-struct-wrap, disp-formula, disp-quote, fig, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap, td, term, th, trans-abstract

\<price\> [spec](#)

- children:

  TEXT, bold, fixed-case, italic, monospace, overline, overline-end, overline-start, roman, ruby, sans-serif, sc, strike, underline, underline-end, underline-start

- parents:

  license-p, product

\<principal-award-recipient\> [spec](#)

- children:

  TEXT, contrib-id, institution, institution-wrap, name, name-alternatives, string-name

- parents:

  award-group

\<principal-investigator\> [spec](#)

- children:

  TEXT, contrib-id, name, name-alternatives, string-name

- parents:

  award-group

<private-char> spec

- children:

  glyph-data, glyph-ref, inline-graphic

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, alternatives, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

<product> spec   There is no means to separate textual and structured representation

- children:

  TEXT, abbrev, alternatives, annotation, article-title, bold, break, chapter-title, chem-struct, collab, collab-alternatives, comment, conf-acronym, conf-date, conf-loc, conf-name, conf-sponsor, data-title, date, date-in-citation, day, edition, elocation-id, email, etal, ext-link, fixed-case, fn, fpage, gov, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, isbn, issn, issn-l, issue, issue-id, issue-part, issue-title, italic, label, lpage, milestone-end, milestone-start, monospace, month, name, name-alternatives, named-content, object-id, overline, overline-end, overline-start, page-range, part-title, patent, person-group, price, private-char, pub-id, publisher-loc, publisher-name, related-article, related-object, role, roman, ruby, sans-serif, sc, season, series, size, source, std, strike, string-date, string-name, styled-content, sub, sup, supplement, target, tex-math, trans-source, trans-title, underline, underline-end, underline-start, uri, version, volume, volume-id, volume-series, x, xref, year

- parents:

  article-meta, front-stub, note

<pub-date> spec

- children:

day, era, month, season, string-date, x, year

- parents:

article-meta, front-stub

<pub-id> [spec](#)

- children:

TEXT

- parents:

element-citation, mixed-citation, nlm-citation, product, related-article, related-object, std

<publisher> [spec](#)

- children:

publisher-loc, publisher-name

- parents:

journal-meta

<publisher-loc> [spec](#)

- children:

TEXT, abbrev, addr-line, alternatives, bold, break, chem-struct, city, country, email, ext-link, fax, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, phone, postal-code, private-char, related-article, related-object, roman, ruby, sans-serif, sc, state, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

element-citation, mixed-citation, nlm-citation, product, publisher, related-article, related-object

<publisher-name> [spec](#)

- children:

TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

element-citation, mixed-citation, nlm-citation, product, publisher, related-article, related-object

\<rb> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  ruby

\<ref> [spec](#)

- children:

  citation-alternatives, element-citation, label, mixed-citation, nlm-citation, note, x

- parents:

  ref-list

\<ref-count> [spec](#)

- parents:

  counts

\<ref-list> [spec](#)

- children:

  ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, graphic, label, list, media, p, preformat, ref, ref-list, related-article, related-object, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  abstract, ack, app, app-group, back, bio, boxed-text, notes, ref-list, sec, trans-abstract

\<related-article> [spec](#)

JATS allows this as inline-node.
Defining it e.g. in \<article-meta> and referencing it with \<xref>
would be more consistent

- children:

  TEXT, abbrev, alternatives, annotation, article-title, bold, break, chapter-title, chem-struct, collab, collab-alternatives, comment, conf-acronym, conf-date, conf-loc, conf-name, conf-sponsor, data-title, date, date-in-citation, day, edition, elocation-id, email, etal, ext-link, fixed-case, fn, fpage, gov, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, isbn, issn, issn-l, issue, issue-id, issue-part, issue-title, italic, journal-id, label, lpage, milestone-end, milestone-

start, monospace, month, name, name-alternatives, named-content, object-id, overline, overline-end, overline-start, page-range, part-title, patent, person-group, private-char, pub-id, publisher-loc, publisher-name, related-article, related-object, role, roman, ruby, sans-serif, sc, season, series, size, source, std, strike, string-date, string-name, styled-content, sub, sup, supplement, target, tex-math, trans-source, trans-title, underline, underline-end, underline-start, uri, version, volume, volume-id, volume-series, x, xref, year

- parents:

abbrev, abbrev-journal-title, abstract, ack, addr-line, aff, alt-title, anonymous, app, app-group, article-meta, article-title, attrib, award-id, bio, body, bold, boxed-text, chapter-title, chem-struct, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, disp-quote, edition, element-citation, email, etal, ext-link, fax, fixed-case, front-stub, funding-source, funding-statement, given-names, glossary, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, notes, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, ref-list, related-article, related-object, role, roman, sans-serif, sc, sec, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, th, title, trans-abstract, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

<related-object> spec

JATS allows this as inline-node.
Defining it e.g. in <article-meta> and
referencing it with <xref>
would be more consistent

- children:

TEXT, abbrev, alternatives, annotation, article-title, bold, break, chapter-title, chem-struct, collab, collab-alternatives, comment, conf-acronym, conf-date, conf-loc, conf-name, conf-sponsor, data-title, date, date-in-citation, day, edition, elocation-id, email, etal, ext-link, fixed-case, fn, fpage, gov, hr, inline-formula, inline-graphic, inline-supplementary-material, institution, institution-wrap, isbn, issn, issn-l, issue, issue-id, issue-part, issue-title, italic, label, lpage, milestone-end, milestone-start, monospace, month, name, name-alternatives, named-content, object-id, overline, overline-end, overline-start, page-range, part-title, patent, person-group, private-char, pub-id, publisher-loc, publisher-name, related-article, related-object, role, roman, ruby, sans-serif, sc, season, series, size, source, std, strike, string-date, string-name, styled-content, sub, sup, supplement, target, tex-math, trans-source, trans-title, underline, underline-end, underline-start, uri, version, volume, volume-id, volume-series, x, xref, year

- parents:

abbrev, abbrev-journal-title, abstract, ack, addr-line, aff, alt-title, anonymous, app, app-group, article-meta, article-title, attrib, award-id, bio, body, bold, boxed-text, chapter-title, chem-struct, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, disp-quote, edition, element-citation, email, etal, ext-link, fax, fixed-case, front-stub, funding-source, funding-statement, given-names, glossary, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, notes, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, ref-list, related-article, related-object, role, roman, sans-serif, sc, sec, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, th, title, trans-abstract, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

<response> [spec](#)

- children:

  back, body, floats-group, front, front-stub

- parents:

  article, sub-article

<role> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  collab, contrib, contrib-group, element-citation, mixed-citation, person-group, product, related-article, related-object, sig-block

<roman> [spec](#)

- children:

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- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

<rp> [spec](#)

- children:

  TEXT

- parents:

  ruby

<rt> spec

- children:

  TEXT

- parents:

  ruby

<ruby> spec

- children:

  rb, rp, rt

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

<sans-serif> spec

- children:

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- parents:

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data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<sc> [spec](#)

- children:

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- parents:

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\<season> [spec](#)

- children:

  TEXT

- parents:

  access-date, conf-date, date, date-in-citation, element-citation, mixed-citation, nlm-citation, product, pub-date, related-article, related-object, string-date, time-stamp

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- children:

  ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, p,

preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  abstract, ack, app, back, bio, body, boxed-text, notes, sec, trans-abstract

\<sec-meta\> [spec](#)

- children:

  abstract, contrib-group, kwd-group, permissions

- parents:

  abstract, ack, app, bio, boxed-text, notes, sec, trans-abstract

\<self-uri\> [spec](#)

- children:

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- parents:

  article-meta, front-stub, journal-meta

\<series\> [spec](#)

- children:

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- parents:

  element-citation, mixed-citation, nlm-citation, product, related-article, related-object

\<series-text\> [spec](#)

- children:

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- parents:

article-categories

<series-title> [spec](#)

- children:

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- parents:

article-categories

<sig> [spec](#)

- children:

TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, media, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

sig-block

<sig-block> [spec](#)

- children:

TEXT, abbrev, aff, aff-alternatives, alternatives, bold, break, chem-struct, contrib, email, etal, ext-link, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, media, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, role, roman, ruby, sans-serif, sc, sig, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

body

<size> [spec](#)

- children:

TEXT, x

- parents:

element-citation, mixed-citation, product, related-article, related-object

\<source\> [spec](#)

- children:

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- parents:

element-citation, mixed-citation, nlm-citation, product, related-article, related-object, std

\<speaker\> [spec](#)

- children:

TEXT, abbrev, alternatives, bold, chem-struct, degrees, email, ext-link, fixed-case, fn, given-names, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, prefix, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, suffix, sup, surname, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

speech

\<speech\> [spec](#)

- children:

p, speaker

- parents:

abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, fig, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap, trans-abstract

\<state\> [spec](#)

- children:

TEXT

- parents:

addr-line, address, aff, collab, conf-loc, corresp, publisher-loc

<statement> [spec](#)

- children:

  abstract, attrib, kwd-group, label, p, permissions, statement, title

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, fig, glossary, license-p, named-content, notes, p, ref-list, sec, statement, styled-content, supplementary-material, table-wrap, trans-abstract

<std> [spec](#)

- children:

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- parents:

  element-citation, mixed-citation, product, related-article, related-object

<std-organization> [spec](#)

- children:

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- parents:

  std

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- children:

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- parents:

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<string-conf> [spec](#)

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- parents:

  date, element-citation, history, mixed-citation, product, pub-date, related-article, related-object

<string-name> [spec](#)

- children:

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- parents:

contrib, element-citation, mixed-citation, name-alternatives, person-group, principal-award-recipient, principal-investigator, product, related-article, related-object

<styled-content> [spec]   This is a self-contained inline node
Phrasing content only

- children:

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- parents:

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term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

<sub-article> [spec](#)

- children:

  back, body, floats-group, front, front-stub, response, sub-article

- parents:

  article, sub-article

<subj-group> [spec](#)

- children:

  compound-subject, subj-group, subject

- parents:

  article-categories, subj-group

<subject> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  subj-group

<subtitle> [spec](#)

- children:

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- parents:

  title-group, verse-group

<suffix> [spec](#)

- children:

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- parents:

  name, speaker, string-name

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- children:

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\<supplement> spec

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- parents:

  article-meta, element-citation, front-stub, mixed-citation, nlm-citation, product, related-article, related-object

\<supplementary-material> spec

- children:

  abstract, alt-text, alternatives, array, attrib, caption, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, email, ext-link, graphic, kwd-group, label, list, long-desc, media, object-id, p, permissions, preformat, speech, statement, table-wrap, uri, verse-group

- parents:

  abstract, ack, alternatives, app, app-group, article-meta, bio, body, boxed-text, disp-quote, floats-group, front-stub, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, trans-abstract

\<surname\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  name, speaker, string-name

\<table\> [spec](#)

- children:

  col, tbody, tfoot, thead, tr

- parents:

  alternatives, table-wrap

\<table-count\> [spec](#)

- parents:

  counts

\<table-wrap\> [spec](#)

- children:

  abstract, alt-text, alternatives, attrib, caption, chem-struct-wrap, code, def-list, disp-quote, email, ext-link, graphic, kwd-group, label, list, long-desc, media, object-id, permissions, preformat, speech, statement, table, table-wrap-foot, uri, verse-group

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, fig, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap-group, trans-

abstract

\<table-wrap-foot> [spec](#)

- children:

  attrib, fn, fn-group, label, p, permissions, title, x

- parents:

  table-wrap

\<table-wrap-group> [spec](#)

- children:

  abstract, alt-text, caption, email, ext-link, kwd-group, label, long-desc, table-wrap, uri

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, floats-group, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, trans-abstract

\<target> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

\<tbody> [spec](#)

- children:

  tr

- parents:

  array, table

<td> [spec](#)

In Texture we want to model <td> as container
I.e., it does not have 'mixed' content

- children:

  TEXT, abbrev, alternatives, array, bold, break, chem-struct, chem-struct-wrap, citation-alternatives, code, def-list, disp-formula, disp-formula-group, element-citation, email, ext-link, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, list, media, milestone-end, milestone-start, mixed-citation, monospace, named-content, nlm-citation, overline, overline-end, overline-start, p, preformat, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  tr

<term> [spec](#)

Phrasing content only

- children:

  TEXT, abbrev, alternatives, array, bold, chem-struct, chem-struct-wrap, code, disp-formula, disp-formula-group, email, ext-link, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, media, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, preformat, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  def-item

<term-head> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  def-list

<tex-math> [spec](#)

- children:

  TEXT

- parents:

  abbrev, abbrev-journal-title, abstract, ack, addr-line, aff, alt-title, alternatives, anonymous, app, app-group, article-title, attrib, award-id, bio, body, bold, boxed-text, chapter-title, chem-struct, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, def-head, degrees, disp-formula, disp-quote, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, glossary, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, notes, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, ref-list, related-article, related-object, role, roman, sans-serif, sc, sec, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-abstract, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

\<textual-form\> [spec](#)

- children:

  TEXT, bold, fixed-case, inline-graphic, italic, label, monospace, named-content, overline, overline-end, overline-start, private-char, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, tex-math, underline, underline-end, underline-start

- parents:

  alternatives, chem-struct-wrap

\<tfoot\> [spec](#)

- children:

  tr

- parents:

  table

\<th\> [spec](#) In Texture we want to model \<td\> as container
I.e., it does not have 'mixed' content

- children:

  TEXT, abbrev, alternatives, array, bold, break, chem-struct, chem-struct-wrap, citation-alternatives, code, def-list, disp-formula, disp-formula-group, element-citation, email, ext-link, fixed-case, fn, graphic, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, list, media, milestone-end, milestone-start, mixed-citation, monospace, named-content, nlm-citation, overline, overline-end, overline-start, p, preformat, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  tr

\<thead> [spec](#)

- children:

  tr

- parents:

  table

\<time-stamp> [spec](#)

- children:

  TEXT, day, era, month, season, x, year

- parents:

  nlm-citation

\<title> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, citation-alternatives, element-citation, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, mixed-citation, monospace, named-content, nlm-citation, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abstract, ack, app, app-group, author-comment, author-notes, back, bio, caption, def-list, disp-quote, fn-group, glossary, kwd-group, list, list-item, notes, ref-list, sec, statement, supplement, table-wrap-foot, trans-abstract, verse-group

\<title-group> [spec](#)

- children:

  alt-title, article-title, fn-group, subtitle, trans-title-group

- parents:

  article-meta, front-stub

\<tr> [spec](#)

- children:

  td, th

- parents:

  table, tbody, tfoot, thead

<trans-abstract> [spec](#)

- children:

  ack, address, alternatives, array, boxed-text, chem-struct-wrap, code, def-list, disp-formula, disp-formula-group, disp-quote, fig, fig-group, fn-group, glossary, graphic, label, list, media, notes, object-id, p, preformat, ref-list, related-article, related-object, sec, sec-meta, speech, statement, supplementary-material, table-wrap, table-wrap-group, tex-math, title, verse-group, x

- parents:

  article-meta, front-stub

<trans-source> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, nlm-citation, product, related-article, related-object

<trans-subtitle> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  trans-title-group

<trans-title> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object,

roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, nlm-citation, product, related-article, related-object, trans-title-group

<trans-title-group> [spec](#)

- children:

  trans-subtitle, trans-title

- parents:

  journal-title-group, title-group

<underline> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

<underline-end> [spec](#)

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace,

named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<underline-start\> [spec](#)

- parents:

  abbrev, abbrev-journal-title, addr-line, aff, alt-title, anonymous, article-title, attrib, award-id, bold, chapter-title, chem-struct, code, collab, comment, compound-kwd-part, compound-subject-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, copyright-statement, corresp, data-title, date-in-citation, def-head, degrees, disp-formula, edition, element-citation, email, etal, ext-link, fax, fixed-case, funding-source, funding-statement, given-names, gov, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, price, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, target, td, term, term-head, textual-form, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<unstructured-kwd-group\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  kwd-group

\<uri\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  abbrev, abbrev-journal-title, addr-line, address, aff, alt-title, anonymous, array, article-meta, article-title, attrib, award-id, bold, chapter-title, chem-struct, chem-struct-wrap, code, collab, comment, compound-kwd-part, conf-acronym, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme,

contrib, contrib-group, copyright-statement, corresp, data-title, def-head, degrees, disp-formula, disp-formula-group, edition, element-citation, email, etal, ext-link, fax, fig, fig-group, fixed-case, front-stub, funding-source, funding-statement, given-names, gov, graphic, history, inline-formula, inline-supplementary-material, institution, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, label, license-p, media, meta-name, meta-value, mixed-citation, monospace, named-content, on-behalf-of, overline, p, part-title, patent, phone, prefix, preformat, product, publisher-loc, publisher-name, rb, related-article, related-object, role, roman, sans-serif, sc, self-uri, series, series-text, series-title, sig, sig-block, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, supplementary-material, surname, table-wrap, table-wrap-group, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

\<verse-group\> [spec](#)

- children:

  attrib, label, permissions, subtitle, title, verse-group, verse-line

- parents:

  abstract, ack, app, app-group, bio, body, boxed-text, disp-quote, fig, glossary, license-p, named-content, notes, p, ref-list, sec, styled-content, supplementary-material, table-wrap, trans-abstract, verse-group

\<verse-line\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  verse-group

\<version\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  element-citation, mixed-citation, product, related-article, related-object

\<volume\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  article-meta, element-citation, front-stub, mixed-citation, nlm-citation, product, related-article, related-object, volume-issue-group

<volume-id> spec

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  article-meta, element-citation, front-stub, mixed-citation, product, related-article, related-object, volume-issue-group

<volume-issue-group> spec

- children:

  issue, issue-id, issue-part, issue-sponsor, issue-title, volume, volume-id, volume-series

- parents:

  article-meta, front-stub

<volume-series> spec

- children:

  TEXT, abbrev, alternatives, bold, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

  article-meta, element-citation, front-stub, mixed-citation, product, related-article, related-object, volume-issue-group

\<word-count\> [spec](#)

- parents:

  counts

\<x\> [spec](#)

- children:

  TEXT, bold, fixed-case, italic, monospace, named-content, overline, overline-end, overline-start, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, underline, underline-end, underline-start, x

- parents:

  abbrev, abbrev-journal-title, abstract, access-date, ack, addr-line, address, aff, alt-title, anonymous, app, app-group, article-meta, article-title, attrib, author-notes, award-id, bio, body, bold, boxed-text, chapter-title, chem-struct, collab, comment, compound-kwd-part, conf-acronym, conf-date, conf-loc, conf-name, conf-num, conf-sponsor, conf-theme, conference, contrib, contrib-group, copyright-holder, copyright-statement, corresp, country, date-in-citation, def-head, def-item, def-list, degrees, disp-formula, disp-quote, edition, element-citation, email, etal, ext-link, fax, fixed-case, fn-group, front-stub, funding-source, funding-statement, given-names, glossary, gov, history, inline-formula, inline-supplementary-material, institution, isbn, issn, issn-l, issue, issue-part, issue-sponsor, issue-title, italic, journal-subtitle, journal-title, kwd, kwd-group, label, license-p, list, long-desc, meta-name, meta-value, mixed-citation, monospace, named-content, notes, on-behalf-of, overline, p, part-title, patent, person-group, phone, prefix, preformat, product, pub-date, publisher-loc, publisher-name, rb, ref, ref-list, related-article, related-object, role, roman, sans-serif, sc, sec, self-uri, series, series-text, series-title, sig, sig-block, size, source, speaker, std-organization, strike, string-conf, string-date, string-name, styled-content, sub, subject, subtitle, suffix, sup, supplement, surname, table-wrap-foot, target, td, term, term-head, th, time-stamp, title, trans-abstract, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, x, xref

\<xref\> [spec](#)

- children:

  TEXT, abbrev, alternatives, bold, break, chem-struct, email, ext-link, fixed-case, fn, hr, inline-formula, inline-graphic, inline-supplementary-material, italic, milestone-end, milestone-start, monospace, named-content, overline, overline-end, overline-start, private-char, related-article, related-object, roman, ruby, sans-serif, sc, strike, styled-content, sub, sup, target, tex-math, underline, underline-end, underline-start, uri, x, xref

- parents:

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subtitle, suffix, sup, supplement, surname, target, td, term, term-head, th, title, trans-source, trans-subtitle, trans-title, underline, unstructured-kwd-group, uri, verse-line, version, volume, volume-id, volume-series, xref

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- children:

  TEXT

- parents:

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