

## X-Device Object schemata for various DTDs

This page contains the object schemata in X-DEVICE for the DTDs of various [XML Query Use Cases](#).

### XMP

```
xml_seq bib
  attributes
    book          (book, list, optional)
  meta_attributes
    elem_ord      [book]
xml_seq book
  attributes
    title         (string, single, mandatory)
    book_alt1     (book_alt1, single, mandatory)
    publisher     (string, single, mandatory)
    price         (string, single, mandatory)
    year         (string, single, mandatory)
  meta_attributes
    elem_ord      [title, book_alt1, publisher, price]
    att_lst       [year]
    alias         [author-book_alt1, editor-book_alt1]
xml_alt book_alt1
  attributes
    author        (author, list, optional)
    editor        (editor, list, optional)
xml_seq author
  attributes
    last          (string, single, mandatory)
    first         (string, single, mandatory)
  meta_attributes
    elem_ord      [last, first]
xml_seq editor
  attributes
    last          (string, single, mandatory)
    first         (string, single, mandatory)
    affiliation   (string, single, mandatory)
  meta_attributes
    elem_ord      [last, first, affiliation]
```

### TREE

```
xml_seq book
  attributes
    title         (string, single, mandatory)
    author        (string, list, mandatory)
    section       (section, list, mandatory)
  meta_attributes
    elem_ord      [title, author, section]
xml_seq section
  attributes
    title         (string, single, mandatory)
    section_alt1 (section_alt1, list, optional)
    id            (string, single, optional)
    difficulty    (string, single, optional)
  meta_attributes
    elem_ord      [title, section_alt1]
    att_lst       [id, difficulty]
    alias         [p-section_alt1, figure-section_alt1, section-section_alt1]
xml_alt section_alt1
  attributes
    p            (string, single, optional)
    figure       (figure, single, optional)
    section      (section, single, optional)
xml_seq figure
  attributes
    title         (string, single, mandatory)
    image         (image, single, mandatory)
    width         (string, single, mandatory)
    height        (string, single, mandatory)
  meta_attributes
    elem_ord      [title, image]
    att_lst       [width, height]
xml_seq image
  attributes
    source        (string, single, mandatory)
  meta_attributes
```

att lst [source]

#### SEQ

```
xml_seq report
  attributes
    section (section, list, optional)
  meta attributes
    elem_ord [section]
xml_seq section
  attributes
    section_title (string, single, mandatory)
    section_content(section_content, single, mandatory)
  meta attributes
    elem_ord [section_title, section_content]
xml_seq section_content
  attributes
    section_content_alt1 (section_content_alt1, list, optional)
  meta attributes
    elem_ord [section_content_alt1]
    alias [content-section_content_alt1,anesthesia-section_content_alt1,
           prep-section_content_alt1,incision-section_content_alt1,
           action-section_content_alt1,observation-section_content_alt1]
xml_alt section_content_alt1
  attributes
    content (string, single, optional)
    anesthesia (string, single, optional)
    prep (prep, single, optional)
    incision (incision, single, optional)
    action (action, single, optional)
    observation (string, single, optional)
xml_seq incision
  attributes
    incision_alt1 (incision_alt1, list, optional)
  meta attributes
    elem_ord [incision_alt1]
    alias [content-incision_alt1,geography-incision_alt1,instrument-incision_alt1]
xml_alt incision_alt1
  attributes
    content (string, single, optional)
    geography (string, single, optional)
    instrument (string, single, optional)
xml_seq action
  attributes
    action_alt1 (action_alt1, list, optional)
  meta attributes
    elem_ord [action_alt1]
    alias [content-action_alt1, instrument-action_alt1]
xml_alt action_alt1
  attributes
    content (string, single, optional)
    instrument (string, single, optional)
xml_seq prep
  attributes
    prep_alt1 (prep_alt1, list, optional)
  meta attributes
    elem_ord [prep_alt1]
    alias [content-prep_alt1, action-prep_alt1]
xml_alt prep_alt1
  attributes
    content (string, single, optional)
    action (action, single, optional)
```

#### SGML

```
xml_seq report
  attributes
    title (title, single, mandatory)
    chapter (chapter, list, mandatory)
  meta attributes
    elem_ord [title, chapter]
xml_seq title
  attributes
    title_alt1 (title_alt1, list, optional)
  meta attributes
    elem_ord [title_alt1]
    alias [content-title_alt1, emph-title_alt1]
xml_alt title_alt1
  attributes
    content (string, single, optional)
    emph (emph, single, optional)
xml_seq chapter
```

```

attributes
  title      (title, single, mandatory)
  intro      (intro, single, optional)
  section    (section, list, optional)
  shorttitle (string, single, optional)
meta_attributes
  elem_ord   [title, intro, section]
  att_lst    [shorttitle]
xml_seq intro
attributes
  intro_alt1 (intro_alt1, list, mandatory)
meta_attributes
  elem_ord   [intro_alt1]
  alias      [para-intro_alt1, graphic-intro_alt1]
xml_alt intro_alt1
attributes
  para      (para, single, optional)
  graphic   (graphic, single, optional)
meta_attributes
  empty     [graphic]
xml_seq section
attributes
  title      (title, single, mandatory)
  intro      (intro, single, optional)
  topic      (topic, list, optional)
  shorttitle (string, single, optional)
  sectid     (string, single, optional)
meta_attributes
  elem_ord   [title, intro, topic]
  att_lst    [shorttitle, sectid]
xml_seq topic
attributes
  title      (title, single, mandatory)
  topic_alt1 (topic_alt1, list, mandatory)
  shorttitle (string, single, optional)
  topicid    (string, single, optional)
meta_attributes
  elem_ord   [title, topic_alt1]
  att_lst    [shorttitle, topicid]
  alias      [para-topic_alt1, graphic-topic_alt1]
xml_alt topic_alt1
attributes
  para      (para, single, optional)
  graphic   (graphic, single, optional)
meta_attributes
  empty     [graphic]
xml_seq para
attributes
  para_alt1 (para_alt1, list, optional)
  security  (string, single, optional('u'))
meta_attributes
  elem_ord   [para_alt1]
  att_lst    [security]
  alias      [content-para_alt1, emph-para_alt1, xref-para_alt1]
xml_alt para_alt1
attributes
  content    (string, single, optional)
  emph      (emph, single, optional)
  xref      (xref, single, optional)
meta_attributes
  empty     [xref]
xml_seq emph
attributes
  emph_alt1 (emph_alt1, list, optional)
meta_attributes
  elem_ord   [emph_alt1]
  alias      [content-emph_alt1, emph-emph_alt1]
xml_alt emph_alt1
attributes
  content    (string, single, optional)
  emph      (emph, single, optional)
xml_seq graphic
attributes
  graphname (string, single, mandatory)
meta_attributes
  elem_ord   []
  att_lst    [graphname]
xml_seq xref
attributes
  xrefid    (string, single, optional)

```

```

    meta attributes
      elem_ord      []
      att_lst       [xrefid]

REF
xml_seq census
  attributes
    person          (person, list, optional)
  meta_attributes
    elem_ord       [person]
xml_seq person
  attributes
    person          (person, list, optional)
    name            (string, single, mandatory)
    spouse          (string, single, optional)
    job             (string, single, optional)
  meta_attributes
    elem_ord       [person]
    att_lst        [name, spouse, job]

TEXT
xml_seq company
  attributes
    name            (string, single, mandatory)
    ticker_symbol   (string, single, optional)
    description     (string, single, optional)
    business_code   (string, single, mandatory)
    partners        (partners, single, optional)
    competitors     (competitors, single, optional)
  meta_attributes
    elem_ord       [name, ticker_symbol, description, business_code, partners, competitors]
xml_seq partners
  attributes
    partner         (string, list, mandatory)
  meta_attributes
    elem_ord       [partner]
xml_seq competitors
  attributes
    competitor      (string, list, mandatory)
  meta_attributes
    elem_ord       [competitor]
xml_seq news
  attributes
    news_item       (news_item, list, optional)
  meta_attributes
    elem_ord       [optional]
xml_seq news_item
  attributes
    title           (string, single, mandatory)
    content         (content, single, mandatory)
    date            (string, single, mandatory)
    author          (string, single, optional)
    news_agent      (string, single, mandatory)
  meta_attributes
    elem_ord       [title, content, date, author, news_agent]
xml_seq content
  attributes
    content_alt1    (content_alt1, list, mandatory)
  meta_attributes
    elem_ord       [content_alt1]
    alias           [par-content_alt1, figure-content_alt1]
xml_alt content_alt1
  attributes
    par             (par, single, optional)
    figure          (figure, single, optional)
xml_seq par
  attributes
    par_alt1       (par_alt1, list, optional)
  meta_attributes
    elem_ord       [par_alt1]
    alias           ['$content'-par alt1, quote-par alt1, footnote-par alt1]
xml_alt par_alt1
  attributes
    '$content'     (string, single, optional)
    quote          (string, single, optional)
    footnote       (string, single, optional)
xml_seq figure
  attributes
    title           (string, single, mandatory)
    image          (image, single, mandatory)

```

```
    meta_attributes
      elem_ord      [title,image]
xml_seq image
  attributes
    source         (string, single, mandatory)
  meta_attributes
    elem_ord      []
    att_lst       [source]
```

#### **PARTS**

```
xml_seq partlist
  attributes
    part          (part,list,optional)
  meta_attributes
    elem_ord      [part]
xml_seq part
  attributes
    partid       (string, single, mandatory)
    partof       (string, single, optional)
    name         (string, single, mandatory)
  meta_attributes
    elem_ord      []
    att_lst       [partid, partof, name]
```