

## Reference Information

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## Fallback and standard size of fixed layouts

The following is another way of thinking in fixed layout descriptions.

### B. Fixed Layouts

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#### Files Required for Settings

##### ■Colors in templates

Gray: Sections common to all works (in principle, do not change)

Blue: Sections that are common to all works, but change for each work

Red: Sections of the work that use that template, which require special attention (in principle, do not change)

Black: Non-standard parts (vary for each work, publisher)

##### ■mimetype

[filename: mimetype]

[Notes]

- Same as reflowable

-----[sample code]-----  
application/epub+zip  
-----

##### ■container.xml in META-INF

[filename: container.xml]

[Notes]

- Same as reflowable

-----[sample code]-----  
<?xml version="1.0"?>  
<container  
version="1.0"  
xmlns="urn:oasis:names:tc:opendocument:xmlns:container"  
>  
<rootfiles>  
<rootfile  
full-path="item/standard.opf"  
media-type="application/oebps-package+xml"  
>  
</rootfiles>  
</container>  
-----

## ■Navigation Documents

[filename: navigation-documents.xhtml]

[Notes]

- Same as reflowable
- When file names are sequential, adjust them at appropriate times (“Contents” in the example below is p-001.xhtml.)

```
-----[sample code]-----
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html>
<html
xmlns="http://www.w3.org/1999/xhtml"
xmlns:epub="http://www.idpf.org/2007/ops"
xml:lang="ja"
>
<head>
<meta charset="UTF-8"/>
<title>Navigation</title>
</head>
<body>
<nav epub:type="toc" id="toc">
<h1>Navigation</h1>
<ol>
<li><a href="xhtml/p-cover.xhtml">Cover</a></li>
<li><a href="xhtml/p-001.xhtml">Contents</a></li>
<li><a href="xhtml/p-colophon.xhtml">Imprint</a></li>
</ol>
</nav>
</body>
</html>
-----
```

## ■OPF Files

[filename: standard.opf]

[Notes]

- The following items differ from reflowable:

A prefix line has been added to the <package> element.

Two <meta> elements have been added to the <!-- Fixed-Layout Documents designation --> part.

The only style sheet is fixed-layout-jp.css.

An image has been designated to act as a fallback in the <item>’s xhtml file, out of consideration for RSs that do not yet support SVG.

properties="rendition:page-spread-center" has been added to the cover page in <itemref>, in the <spine> element.

In the <spine> element’s <itemref>, the left and right pages should be paired together except for the cover image.

\*All else is the same as reflowable.

- When the idref values in the <spine> element’s <itemref> overlap, errors may occur such as the screen going blank (Readium) or the page loops (Firefox’s EPUBReader). If you want to show the same image multiple times, we recommend you prepare another xhtml file to call up the image just to be safe (for a second white image, white2.xhtml, etc.).

```
-----[sample code]-----
<?xml version="1.0" encoding="UTF-8"?>
<package
xmlns="http://www.idpf.org/2007/opf"
version="3.0"
xml:lang="ja"
unique-identifier="unique-id"
prefix="rendition: http://www.idpf.org/vocab/rendition/#
ebpaj: http://www.ebpaj.jp/"
>
<metadata xmlns:dc="http://purl.org/dc/elements/1.1/">
<!-- work title -->
```

```

<dc:title id="title"> work title 1 </dc:title>
<meta refines="#title" property="file-as"> Kana for aligning work titles 01</meta>
<!-- author name -->
<dc:creator id="creator01">author name 1</dc:creator>
<meta refines="#creator01" property="role" scheme="marc:relators">aut</meta>
<meta refines="#creator01" property="file-as"> Kana for aligning author names 01</meta>
<meta refines="#creator01" property="display-seq">1</meta>
<dc:creator id="creator02">author names 2</dc:creator>
<meta refines="#creator02" property="role" scheme="marc:relators">aut</meta>
<meta refines="#creator02" property="file-as"> Kana for aligning author names 02</meta>
<meta refines="#creator02" property="display-seq">2</meta>
<!-- publisher name -->
<dc:publisher id="publisher">publisher name</dc:publisher>
<meta refines="#publisher" property="file-as"> Kana for aligning publisher names</meta>
<!-- Language -->
<dc:language>ja</dc:language>
<!-- file id -->
<dc:identifier id="unique-id">urn:uuid:860ddf31-55a4-449a-8cc9-3c1837657a15</dc:identifier>
<!-- revision date -->
<meta property="dcterms:modified">2014-01-01T00:00:00Z</meta>
<!-- Fixed-Layout Documents designation -->
<meta property="rendition:layout">pre-paginated</meta>
<meta property="rendition:spread">landscape</meta>
<!-- etc. -->
<meta property="ebpaj:guide-version">1.1.3</meta>
</metadata>
<manifest>
<!-- navigation -->
<item media-type="application/xhtml+xml" id="toc" href="navigation-documents.xhtml"
properties="nav"/>
<!-- style -->
<item media-type="text/css" id="fixed-layout-jp" href="style/fixed-layout-jp.css"/>
<!-- image -->
<item media-type="image/jpeg" id="cover" href="image/cover.jpg" properties="cover-image"/>
<item media-type="image/jpeg" id="i-white" href="image/i-white.jpg"/>
<item media-type="image/jpeg" id="i-001" href="image/i-001.jpg"/>
<item media-type="image/jpeg" id="i-002" href="image/i-002.jpg"/>
<item media-type="image/jpeg" id="i-003" href="image/i-003.jpg"/>
<item media-type="image/jpeg" id="i-004" href="image/i-004.jpg"/>
<item media-type="image/jpeg" id="i-005" href="image/i-005.jpg"/>
<item media-type="image/jpeg" id="i-colophon" href="image/i-colophon.jpg"/>
<!-- xhtml -->
<item media-type="application/xhtml+xml" id="p-cover" href="xhtml/p-cover.xhtml"
properties="svg" fallback="cover"/>
<item media-type="application/xhtml+xml" id="p-white" href="xhtml/p-white.xhtml"
properties="svg" fallback="i-white"/>
<item media-type="application/xhtml+xml" id="p-001" href="xhtml/p-001.xhtml"
properties="svg" fallback="i-001"/>
<item media-type="application/xhtml+xml" id="p-002" href="xhtml/p-002.xhtml"
properties="svg" fallback="i-002"/>
<item media-type="application/xhtml+xml" id="p-003" href="xhtml/p-003.xhtml"
properties="svg" fallback="i-003"/>
<item media-type="application/xhtml+xml" id="p-004" href="xhtml/p-004.xhtml"
properties="svg" fallback="i-004"/>
<item media-type="application/xhtml+xml" id="p-005" href="xhtml/p-005.xhtml"
properties="svg" fallback="i-005"/>
<item media-type="application/xhtml+xml" id="p-colophon" href="xhtml/p-colophon.xhtml"
properties="svg" fallback="i-colophon"/>
<item media-type="application/xhtml+xml" id="p-white2" href="xhtml/p-white2.xhtml"
properties="svg" fallback="i-white"/>
</manifest>
<spine page-progression-direction="rtl">
<itemref linear="yes" idref="p-cover" properties="rendition:page-spread-center"/>

```

```

<itemref linear="yes" idref="p-white" properties="page-spread-right"/>
<itemref linear="yes" idref="p-001" properties="page-spread-left"/>
<itemref linear="yes" idref="p-002" properties="page-spread-right"/>
<itemref linear="yes" idref="p-003" properties="page-spread-left"/>
<itemref linear="yes" idref="p-004" properties="page-spread-right"/>
<itemref linear="yes" idref="p-005" properties="page-spread-left"/>
<itemref linear="yes" idref="p-colophon" properties="page-spread-right"/>
<itemref linear="yes" idref="p-white2" properties="page-spread-left"/>
</spine>
</package>

```

---

When describing a standard size to an OPF file to quickly display a page-fit fixed-size image on all pages, we recommend describing it as follows.

[filename: standard.opf]

[Notes]

- We added a prefix declaration for fixed layouts to the package element.
- We added a standard size designation for the page image to the <metadata> element.
- We made the image measurements all the same size, and entered the number of vertical and horizontal pixels of the full-sized image in the area highlighted in blue below.

```

-----[sample code]-----
<?xml version="1.0" encoding="UTF-8"?>
<package
  xmlns="http://www.idpf.org/2007/opf"
  version="3.0"
  xml:lang="ja"
  unique-identifier="unique-id"
  prefix="rendition: http://www.idpf.org/vocab/rendition/#
  ebpaj: http://www.ebpaj.jp/
  fixed-layout-jp: http://www.digital-comic.jp/"
  >
  <metadata xmlns:dc="http://purl.org/dc/elements/1.1/">
    (*Omitted)
    <!-- Fixed-Layout Documents designation -->
    <meta property="rendition:layout">pre-paginated</meta>
    <meta property="rendition:spread">landscape</meta>
    <!-- standard size -->
    <meta property="fixed-layout-jp:viewport">width=848, height=1200</meta>
    <!-- etc. -->
    <meta property="ebpaj:guide-version">1.1.3</meta>
  </metadata>
  (Remainder omitted.)

```

---

## Add landmarks nav to Navigation Documents

In the navigation document, as toc nav introduced in EBPAJ guide, you can insert landmarks nav and others. There are RSs which uses epub:type added in <a> of landmarks nav, so check the specifications of the RSs and use if necessary.

### ■ Navigation Documents

[filename: navigation-documents.xhtml]

[Notes]

- An example of epub:type

epub:type="cover"

epub:type="toc"

epub:type="frontmatter"

epub:type="bodymatter"

```
-----[sample code]-----
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE html>
<html
  xmlns="http://www.w3.org/1999/xhtml"
  xmlns:epub="http://www.idpf.org/2007/ops"
  xml:lang="ja"
>
<head>
<meta charset="UTF-8"/>
<title>Navigation</title>
</head>
<body>

<nav epub:type="toc" id="toc">                                // toc nav (value of id is optional)
<h1>Navigation</h1>                                           // Heading level and text strings are optional
<ol>
<li><a href="xhtml/p-cover.xhtml">Cover</a></li>
<li><a href="xhtml/p-toc.xhtml">Contents</a></li>
<li><a href="xhtml/p-colophon.xhtml">Imprint</a></li>
</ol>
</nav>

<nav epub:type="landmarks" id="guide">                        // landmarks nav (value of id is optional)
<h1>Guide</h1>                                                // Heading level and text strings are optional
<ol>
<li><a epub:type="cover" href="xhtml/p-cover.xhtml">Cover</a></li>
<li><a epub:type="toc" href="xhtml/p-toc.xhtml">Contents</a></li>
<li><a epub:type="bodymatter" href="xhtml/p-titlepage.xhtml">main part</a></li>
</ol>
</nav>

</body>
</html>
-----
```

## Designation of the rendering mode in OPF

The example below indicates whether the pages are “reflowable” or “fixed layout”, or the newly added “scrolling” or “turning” from EPUB 3.0.1 in the OPF.

However, items that are newly provided from EPUB 3.0.1 have no practical examples yet, and because it is not clear whether these designations act correctly, or even cause unexpected errors, while referring this entry, also confirm actual behaviors of the RS to consider introducing these items.

To maintain compatibility with works made until now, we would like RSs to not consider these designations as necessary but skippable as specified, and when RSs do not react correctly to them, let RSs ignore them appropriately and act the same as when skipped.

### ■ OPF Files

[filename: standard.opf]

[Notes]

- The following item about rendering mode of an entire work and designation of fixed layout is skippable in reflowable as before, as specified in EPUB 3.0.1. Also, when skipped, it would be accepted as the value shown in the blue text below, as specified in EPUB 3.0.1 as well.

```
<meta property="rendition:flow">auto</meta>
<meta property="rendition:layout">reflowable</meta>
<meta property="rendition:spread">auto</meta>
<meta property="rendition:orientation">auto</meta>
```

- When using fixed layouts, designate such rendition as follows

value of “rendition:layout”

value of “rendition:spread”

Designate “none” when always displaying a page per screen without spread-out expression

value of “rendition:orientation”

- When using fixed layout, “rendition:flow” would be ignored according to the EPUB 3.0.1 specification.

- When mentioning the designation of “rendition”, be sure to add “rendition:”  
<http://www.idpf.org/vocab/rendition/#> to the prefix of <package>.

- Designation for fixed layout page standard size may be skipped according to the EPUB 3.0.1 specification

```
<meta property="rendition:viewport">width=848, height=1200</meta>
```

※Example : width 848px × height 1200px

- In reflowable type, “rendition:viewport” is not considered to be used (excluding the cases when using partial FL). When using fixed layout, to insert the standard image size used in the work, use the designation above.

However, for safety, we recommend inserting viewport designation in each xhtml as before.

Also, when changing the standard size of some of the pages only, use the designation mentioned above to indicate the standard size, and insert “rendition:viewport” for each page as much as possible. In that case, add id to <itemref> in the resizing pages of <spine> newly, and designate the id with refines of “rendition:viewport” as follows:

※Example : making only p-001 width 1200px × height 1200px

```
<meta property="rendition:viewport" refines="#itemref-p-001">width=1200, height=1200</meta>
```

※Designate the following id in <spine> (id is arbitrary)

```
<itemref linear="yes" idref="p-001" id="itemref-p-001"/>
```

- To designate the display either scrolling or page divided, change the “rendition:flow” value as below

\*Scrolling direction would follow text direction designation (-epub-writing-mode) specified in each html

"paginated" : designate as divided page explicit

"scrolled-continuous" : handle all content as continuous scrolling

"scrolled-doc" : divide the content by every <itemref> element of <spine> and display by scrolling

"auto" : leave to RS

However, whether the designations would be reflected depends on the RS, so we assume to avoid using expressions dependent on displays.

## A. Reflowable

-----[sample code]-----

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<package
```

```
  xmlns="http://www.idpf.org/2007/opf"
```

```
  version="3.0"
```

```
  xml:lang="ja"
```

```
  unique-identifier="unique-id"
```

```
  prefix="rendition: http://www.idpf.org/vocab/rendition/#
```

```
    ebpaj: http://www.ebpaj.jp/"
```

```
>
```

```
<metadata xmlns:dc="http://purl.org/dc/elements/1.1/">
```

(Omitted)

```
<!-- Revision Date -->
```

```
<meta property="dcterms:modified">2014-01-01T00:00:00Z</meta>
```

```
<!--Rendering specification-->
```

```
<meta property="rendition:flow">auto</meta>
```

```
<meta property="rendition:layout">reflowable</meta>
```

```
<meta property="rendition:orientation">auto</meta>
```

```
<meta property="rendition:spread">auto</meta>
```

```
<!-- etc. -->
```

```
<meta property="ebpaj:guide-version">1.1.3</meta>
```

```
</metadata>
```

(Omitted)

```
</package>
```

-----



## B. Fixed Layouts

```

-----[sample code]-----
<?xml version="1.0" encoding="UTF-8"?>
<package
  xmlns="http://www.idpf.org/2007/opf"
  version="3.0"
  xml:lang="ja"
  unique-identifier="unique-id"
  prefix="rendition: http://www.idpf.org/vocab/rendition/#
        ebpaj: http://www.ebpaj.jp/"
>

<metadata xmlns:dc="http://purl.org/dc/elements/1.1/">

  (Omitted)

  <!-- Revision Date -->
  <meta property="dcterms:modified">2014-01-01T00:00:00Z</meta>

  <!--Rendering specification-->
  <meta property="rendition:flow">auto</meta>
  <meta property="rendition:layout">pre-paginated</meta>
  <meta property="rendition:orientation">auto</meta>
  <meta property="rendition:spread">landscape</meta>
  <meta property="rendition:viewport">width=848, height=1200</meta>
  <meta property="rendition:viewport" refines="#itemref-p-001">width=1200, height=1200</meta>

  <!-- etc. -->
  <meta property="ebpaj:guide-version">1.1.3</meta>

</metadata>

<manifest>

  (Omitted)

</manifest>

<spine page-progression-direction="rtl">

  <itemref linear="yes" idref="p-cover" properties="rendition:page-spread-center"/>
  <itemref linear="yes" idref="p-001" id="itemref-p-001" properties="page-spread-right"/>
  <itemref linear="yes" idref="p-002" properties="page-spread-left"/>

</spine>

</package>
-----

```

## Specific designation of rendering specified <spine>

Rendering related designations such as “rendition:flow” “rendition:layout” “rendition:spread” “rendition:orientation” are able to use as the value of properties attribution in <itemref> of <spine>, due to the EPUB specification.

However, there are many RSs that do not totally handle the action, so we have presented only an example that is assumed possible, just for reference. Please inquire each RS makers of the practical expression level of the RS.

※When mentioning the designation of “rendition” in <manifest> or <spine>, be sure to add “rendition: <http://www.idpf.org/vocab/rendition/#>” to the prefix of <package>.

### ■Switching “page dividing display” and “scrolling display” by the page

[Notes]

- Cannot be designated together with fixed layouts (scroll designations would be ignored)
- Should not change text orientation to display with consecutive scrolling

[Specification example]

- Divide the page and display

```
<itemref linear="yes" idref="p-001.xhtml" properties="rendition:layout-pre-paginated">
```

- Displaying with consecutive scrolling (when there is designation same with <itemref> before and later, it will become seamless scroll)

```
<itemref linear="yes" idref="p-001.xhtml" properties="rendition:flow-scrolled-continuous">
```

- Displaying by divided scrolling

```
<itemref linear="yes" idref="p-001.xhtml" properties="rendition:flow-scrolled-doc">
```

- RSs choose to display either page divided or scrolling

```
<itemref linear="yes" idref="p-001.xhtml" properties="rendition:flow-auto">
```

### ■Fixed layouts for each file (designating partial FL)

[Notes]

- Only use in pages that displays only images
  - For xhtml, use SVG wrapping designations and CSS file (fixed-layout-jp.css) as the same as the fixed layout designations of the EBPAJ guide.
  - When using SVG wrapping designations, like when using fixed layout designations, mention “properties=“svg”” in <item> for xhtml in <manifest>, which designates the use of svg
  - Check whether RSs support image map when using
- (※At the present state, there are some RSs that are not able on particular OS application)
- Do not expect spread-out display designations to be reflected
- (Because there are RSs that do not accept page-spread displays, or RSs that do not display two screens neither when reflowable nor when the screen is displayed horizontally)

[Specification example]

Fixed layouts designation (no spread-out display designation or page position designation)

```
<itemref linear="yes" idref="p-001.xhtml" properties="rendition:layout-pre-paginated">
```

※“rendition:spread” (spread-out designation) is assumed to be “auto” due to EPUB 3.0.1 specifications

Designations for fixed out layouts to display symmetrical connected spread-open displays when the screen is displayed horizontally

```
<itemref linear="yes" idref="p-001.xhtml"
```

```
properties="rendition:layout-pre-paginated rendition:spread-landscape page-spread-right">
```

```
<itemref linear="yes" idref="p-002.xhtml"
```

```
properties="rendition:layout-pre-paginated rendition:spread-landscape page-spread-left">
```

※As well as the Global fixed layout designated spread-open displays, it is assumed the center of the left and right pages are placed without space

※May not necessarily have spread-out displays at the present state

※Skipping “rendition:spread” will make the value “auto”, so it may become connected spread-out display

- Designating right page as fixed layout, left page as reflowable

```
<itemref linear="yes" idref="p-001.xhtml"
properties="rendition:layout-pre-paginated page-spread-right">
<itemref linear="yes" idref="p-002.xhtml" properties="page-spread-left">
```

※The best is to place the fixed layout and the reflowable pages side by side, but at the present state displaying both pages at once is not assured possible.

- Designating fixed layout placed in the horizontal center without spread-out expressions (displaying a page per a screen)

```
<itemref linear="yes" idref="p-001.xhtml"
properties="rendition:layout-pre-paginated rendition:page-spread-center">
```

※May not necessarily display a page per screen (only the first page may be placed in the center)

- Designating fixed layout without spread-out expressions (displaying a page per a screen)

```
<itemref linear="yes" idref="p-001.xhtml"
properties="rendition:layout-pre-paginated rendition:spread-none">
```

※May not necessarily be centered horizontally (may be centered)

- Designating fixed layout placed in the center without spread-out expressions (displaying a page per a screen)

```
<itemref linear="yes" idref="p-001.xhtml"
properties="rendition:layout-pre-paginated rendition:spread-none rendition:page-spread-center">
```

※For confirmation, we recommend using spread-none and page-spread-center together.

-----[sample code]-----

```
<?xml version="1.0" encoding="UTF-8"?>
<package
xmlns="http://www.idpf.org/2007/opf"
version="3.0"
xml:lang="ja"
unique-identifier="unique-id"
prefix="rendition: http://www.idpf.org/vocab/rendition/#
ebpaj: http://www.ebpaj.jp/"
>
```

```
<metadata xmlns:dc="http://purl.org/dc/elements/1.1/">
```

(Omitted)

```
<!-- Revision Date -->
<meta property="dcterms:modified">2014-01-01T00:00:00Z</meta>
```

```
<!--Rendering specification--> // Omissible (whole document is interpreted as reflowable)
<meta property="rendition:flow">auto</meta>
<meta property="rendition:layout">reflowable</meta>
<meta property="rendition:orientation">auto</meta>
<meta property="rendition:spread">auto</meta>
```

```

<!-- etc. -->
<meta property="ebpaj:guide-version">1.1.3</meta>

</metadata>

<manifest>

<!-- navigation -->
<item media-type="application/xhtml+xml" id="toc" href="navigation-documents.xhtml" properties="nav"/>

<!-- style -->      // ↓ Additions of stylesheet for fixed layouts
<item media-type="text/css" id="fixed-layout-jp.css" href="style/fixed-layout-jp.css"/>
<item media-type="text/css" id="book-style" href="style/book-style.css"/>
<item media-type="text/css" id="style-reset" href="style/style-reset.css"/>
<item media-type="text/css" id="style-standard" href="style/style-standard.css"/>
<item media-type="text/css" id="style-advance" href="style/style-advance.css"/>
<item media-type="text/css" id="style-check" href="style/style-check.css"/>

<!-- image -->
<item media-type="image/jpeg" id="cover" href="image/cover.jpg" properties="cover-image"/>
<item media-type="image/jpeg" id="img-001" href="image/img-001.jpg"/>

<!-- xhtml -->
<item media-type="application/xhtml+xml" id="p-cover" href="xhtml/p-cover.xhtml"/>
<item media-type="application/xhtml+xml" id="p-001" href="xhtml/p-001.xhtml"/>
<item media-type="application/xhtml+xml" id="p-002" href="xhtml/p-002.xhtml" properties="svg"/>
<item media-type="application/xhtml+xml" id="p-003" href="xhtml/p-003.xhtml"/>
<item media-type="application/xhtml+xml" id="p-004" href="xhtml/p-004.xhtml" properties="svg"/>
      //Additions of property="svg" to page including SVG wrapping ↑
</manifest>

<spine page-progression-direction="rtl">

<itemref linear="yes" idref="p-cover" properties="page-spread-left"/>
<itemref linear="yes" idref="p-001" properties="rendition:flow-scrolled-doc"/>
      // ↑ Example of designation for rendition on divided scrolling
<itemref linear="yes" idref="p-002" // ↓ Example of FL designation for single page; placing on right side
  properties="rendition:layout-pre-paginated page-spread-right"/>
<itemref linear="yes" idref="p-003" properties="page-spread-left"/>
<itemref linear="yes" idref="p-004"
  properties="rendition:layout-pre-paginated rendition:spread-none rendition:page-spread-center"/>
      // ↑ Example of FL designation for single page; centering with out spread-layout
</spine>
</package>

```

※Indents and spaces in the elements are converted to make the descriptions simple.