

# Relative page numbers

This example shows how to use [‘axf:origin-id’](#) to generate page numbers that are relative to the page on which another FO appears. `<fo:page-number>`, `<fo:page-number-citation>`, and `<fo:page-number-citation-last>` usually generate page numbers that are determined by the position of a page within the pages generated by its `<fo:page-sequence>`.

‘axf:origin-id’ contains a reference to the ID of an FO, and when you use ‘axf:origin-id’ with `<fo:page-number>`, `<fo:page-number-citation>`, or `<fo:page-number-citation-last>`, they instead generate page numbers that are numbered relative to the page of the first area generated by the FO to which ‘axf:origin-id’ refers.

The formula for the relative page numbers is:

$$[\text{ref-id page}] - [\text{origin-id page}] + 1$$

For `<fo:page-number>`, which does not have a ‘ref-id’ property, the “ref-id page” is considered to be the page on which the area generated by the `<fo:page-number>` appears.

In the following multi-page table, the table footer indicates the current table part. This uses <fo:page-number> to generate the part number, and <fo:page-number-citation-last> (with 'ref-id' referring to the ID of the containing <fo:table>) to generate the total number of pages for the table. Both FOs also have 'axf:origin-id' referring to the ID of the containing <fo:table> so that the page numbers are relative to the first page of the table.

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<i>&lt;fo:table-footer&gt; repeated on every page. This shows the table part number and the total number of parts: 1/2</i>

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*<fo:table-footer> repeated on every page. This shows the table part number and the total number of parts: 2/2*