

# Writing direction in the region-start/end

It's possible to specify the writing direction in `<fo:region-start>` and `<fo:region-end>`. Specify `writing-mode="tb-rl"` to make it vertical. Specify 'reference-orientation' in the unit of 90 degrees to rotate text. But even if 'writing-mode' and 'reference-orientation' are specified, if you don't make it right, it will not be effective. It's necessary to specify `writing-mode="from-page-master-region()"` and `reference-orientation="from-page-master-region()"` to `<fo:page-sequence>`.

The region start and end of this page is made in vertical mode by specifying `writing-mode="tb-rl"` to `<fo:region-start>` and `<fo:region-end>`.

This is the position of region-start.

This is the position of region-end.

This is the position of region-start.

The second page is an example of rotating text by using 'reference-orientation'. reference-orientation="90" is specified to <fo:region-start>, and reference-orientation="270" is specified to <fo:region-end>.

This is the position of region-end.