Standard

Standard typesetting of intervals

[a,b][a..b]

$$(a,b)$$
 (a,b) $\left(\frac{1}{2},\frac{2}{3}\right)$ $\left(\frac{1}{2},\frac{2}{3}\right)$ $[a,b]$

 $(-\infty, b]$ (a, ∞) $(a, +\infty)$ $(-\infty, \infty)$ $(-\infty, +\infty)$ $(1,2) \cup [2,3) = (1,3)$

Perverse

Perverse (aka French) type
setting of intervals
$$]a,b[\quad]a,b[\quad]\frac{1}{2},\frac{2}{3} \Big[\quad]\frac{1}{2},\frac{2}{3} \Big[$$

[a,b][a..b]

$$[a..b]$$

 $]-\infty, b]$
 $]a, \infty[$ $]a, +\infty[$

$$\begin{array}{ll}]a, \infty[\\]a, \infty[\\]-\infty, \infty[\\ \end{array}]a, +\infty[\\]-\infty, +\infty[\\ \end{array}$$

 $[1, 2] \cup [2, 3] = [1, 3]$