

$A$

$B$

$A \cup B$



A Venn diagram illustrating the union of two overlapping sets,  $A$  and  $B$ . The diagram consists of two overlapping circles, both filled with a solid red color. The left circle is labeled  $A$  in the top-left corner, and the right circle is labeled  $B$  in the top-right corner. The intersection of the two circles is labeled  $A \cup B$  in the center. The entire diagram is enclosed within a black rectangular border.