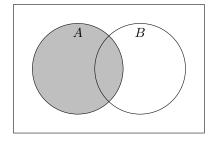
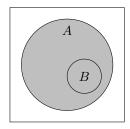
## Venn diagrams

## Peter Rowlett

A Venn diagram is used to show the relationship between sets, which are represented by closed curves, often circles or ellipses. A zone occupied by one or more sets may be empty on a Venn diagram. Often in popular culture we see representations called Venn diagrams which only include the relevant relationships, but these are in fact Euler diagrams, a different but similar concept. For example, Venn and Euler diagrams for  $B \subset A$  are shown below. The area B - A is shown in the Venn diagram even though it is empty.





Some examples of Venn diagrams are shown below.

