## Venn diagrams

Venn diagrams give us a graphical way to show the relationships between Boolean variables and their truth values.
A Venn diagram consists of an enclosed area representing the universe of possibilities,
and one or more circles representing particular variables.

## Venn diagrams

$\square$ The area inside a circle corresponds to the condition in which the variable is true
$\square$ while the area outside the circle corresponds to the condition in which the variable is false.
$\square$ These circles overlap so that all possible truth value combinations are represented in the various regions in the diagram.
$\square$ The regions to be considered are shaded



