

Large separation between
energy levels

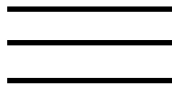


Single atom

Conduction
Band

Valence
Band

Smaller separation
between energy levels

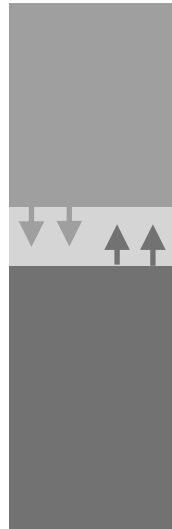


Three atoms in
close proximity

Conduction
Band

Valence
Band

Overlap permits electrons to
move freely within the band



Overlap

Multitudes of atoms
in close proximity