## Why and How atoms combine:

### **Electron Transfer**

## Noble gases

- the atoms in group 8/18
- generally nonreactive (because they are stable)
- all have 8 valence electrons, except helium

# Lewis Theory:

- Proposed by Glbert Lewis, Irving Langmuir, Walter Kossel
- Explain chemical bonding

# Basic assumptions:

- 1. Electrons in the outermost electron shell of valence electrons have an essential role in chemical bonding
- 2. Electrons may be transferred or shared o assume a stable content to configuration) that contains 8 valence electrons. This is called the octet rule.

Lewis Electron Dot Structure (LEDS)

Lewis developed this special representation to app volthe octet rule.