

Dative covalent bonds

1 What are they?

- type of covalent bond (sharing of e^-)
- definition: sharing of e^- from 1 atom only
- difference w/ normal CBs

normal	两颗 atom 都会提供电子	两夫妇一起买房
dative	一颗 atom 提供电子, 两颗 atom 共用	老公付钱, 但两夫妇一起住

- 两颗 species (开心 + 不开心) 结合为新的 - 颗 (非常开心) → 开心 = 获得 duplet / octet 的电子排布

2 Formation

- There are **<2>** lone pair of e^- in **<O>** atom from **<H₂O>** molecule.
- There is **<no>** outermost shell e^- in **<H⁺ ion>** → vacant site
- A lone pair of e^- from **<O>** atom is donated to the vacant site in **<H⁺ ion>**.

3 Examples

