

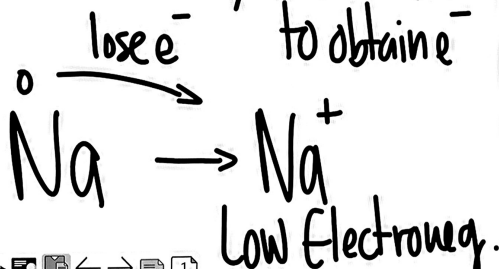
Electronegativity and atomic bonding

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Electroneg. - An atoms ability to attract e^- to itself

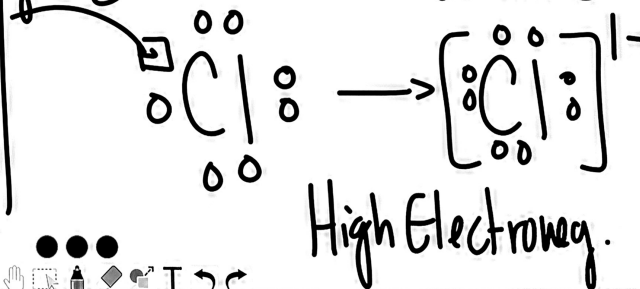
Metals + Metalloids

Want to lose e^- / low desire to obtain e^-



Non-Metals

Want to gain e^- / high desire to obtain e^-



Electronegativity and atomic bonding

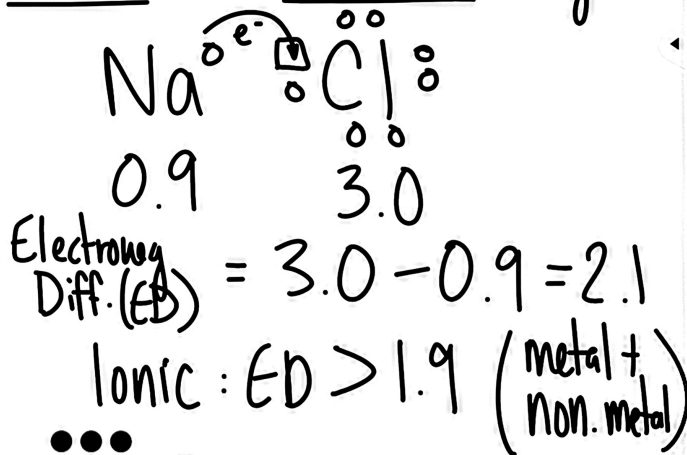
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Atomic Interaction

Ionic Bonding

A low electroneg. atom gives an e^- to a high electroneg. atom

metals : low non-metals : high



Electronegativity and atomic bonding

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Atomic Interaction

Non-Polar Bonding

Two atoms with similar electroneg. share e^- 's equally w/ each other.

Two non-metals



2.1 2.1

$$ED = 2.1 - 2.1 = 0$$

Non-Polar: $ED < 0.5$
(equal sharing)

Electronegativity and atomic bonding

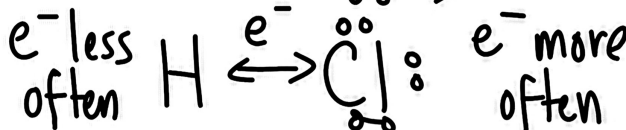
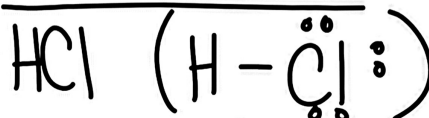
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Atomic Interaction

Polar Bonding

Two atoms share e^- unequally due to large electroneg. Difference (ED)

Two non-metals



2.1 3.0

$$ED \text{ between } ED = 3.0 - 2.1 = 0.9$$

0.5 - 1.9 (Polar)