

# Chp 2 Compounds

## Ionics

- contain ions

(+)

(-)

cation

anion

+  
+  
+  
⊖

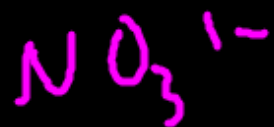
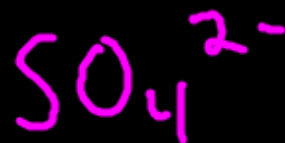
Lose  $e^-$ 's

gain  $e^-$ 's

metals

nonmetals

+  
+  
⊖



) polyatomic

How do we determine the charge  
of the main group elements?

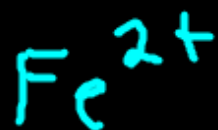
1	2		13	14	15	16	17	18
1+	2+		3+	4±	3-	2-	1-	0

Val  $e^-$  atoms want 8

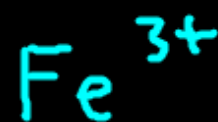
0 or 8

Transition metals  
vary in charge

iron (II)

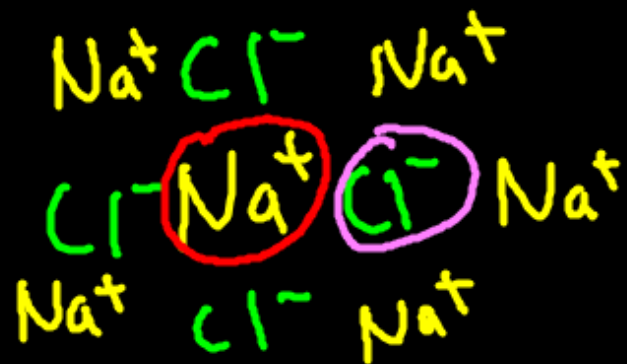
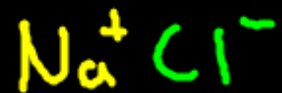


iron (III)



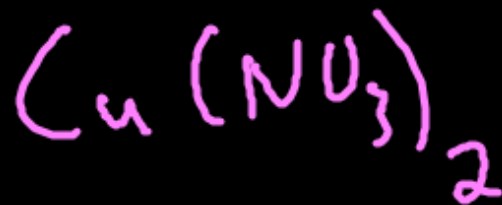
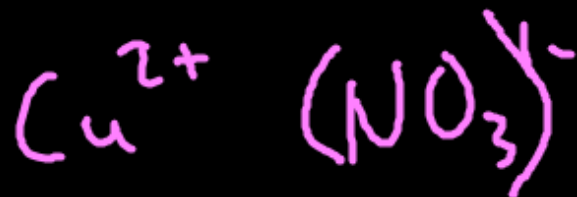
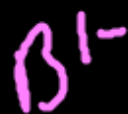
# Ionic Lattice

- overall shape of the crystal



# formula writing for ionics

- must be neutral



magnesium hydroxid.

