

## Transition Metals

### Symbol      Possible Charges

Au	+3, +1
Co	+3, +2
Cr	+3, +2
Cu	+2, +1
Fe	+3, +2
Hg	+2, +1
Ni	+3, +2
Pb	+4, +2
Sn	+4, +2
Ag	+1 only
Cd	+2 only
Zn	+2 only

## Polyatomic Ions

### -1 charge

Acetate	$C_2H_3O_2^-$
Cyanide	$CN^-$
Hydroxide	$OH^-$
Nitrate	$NO_3^-$
Nitrite	$NO_2^-$
Permanganate	$MnO_4^-$

### -3 charge

Phosphate	$PO_4^{3-}$
Phosphite	$PO_3^{3-}$

### -1 charge (for Halogen X)

Hypo( <i>root</i> )ite	$XO^-$
( <i>Root</i> )ite	$XO_2^-$
( <i>Root</i> )ate	$XO_3^-$
Per( <i>root</i> )ate	$XO_4^-$

### -2 charge

Carbonate	$CO_3^{2-}$
Carbonite	$CO_2^{2-}$
Chromate	$CrO_4^{2-}$
Dichromate	$Cr_2O_7^{2-}$
Sulfate	$SO_4^{2-}$
Sulfite	$SO_3^{2-}$

### +1 charge

Ammonium	$NH_4^+$
----------	----------

ex: Hypochlorite	$ClO^-$
ex: Fluorite	$FO_2^-$
ex: Iodate	$IO_3^-$
ex: Perbromate	$BrO_4^-$