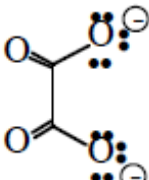
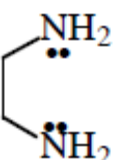


Page 'o Ligands!

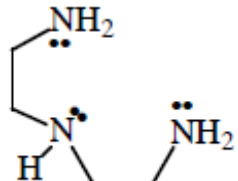
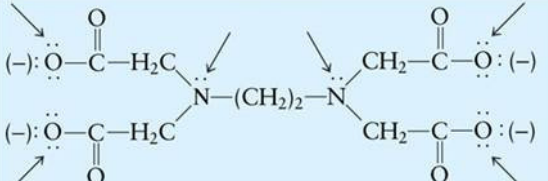
Unidentate / Monodentate (bonding atoms in bold, charge indicated)

H₂O	aqua	ONO⁻	nitrito
OH⁻	hydroxo	NO₂⁻	nitro
NH₃	ammine	SCN⁻	thiocyanato
CO	carbonyl	NCS⁻	isothiocyanato
CN⁻	cyano	X⁻	halides (fluoro, chloro...)

Bidentate

Structure	Ligand	Charge
	oxalate	-2
	ethylenediamine (en)	0

Polydentate

Structure	Ligand	Charge	Binding Sites
	diethylenetriamine (dien)	0	3
	ethylenediaminetetraacetate (EDTA)	-4	6

The Spectrochemical Series:

$\Gamma^- < \text{Br}^- < \text{Cl}^- < \text{F}^-, \text{OH}^- < \text{H}_2\text{O} < :\text{NCS}^- < \text{NH}_3 < \text{en} < \text{NO}_2^- < \text{CO}, \text{CN}^-$

weak field ligands

strong field ligands