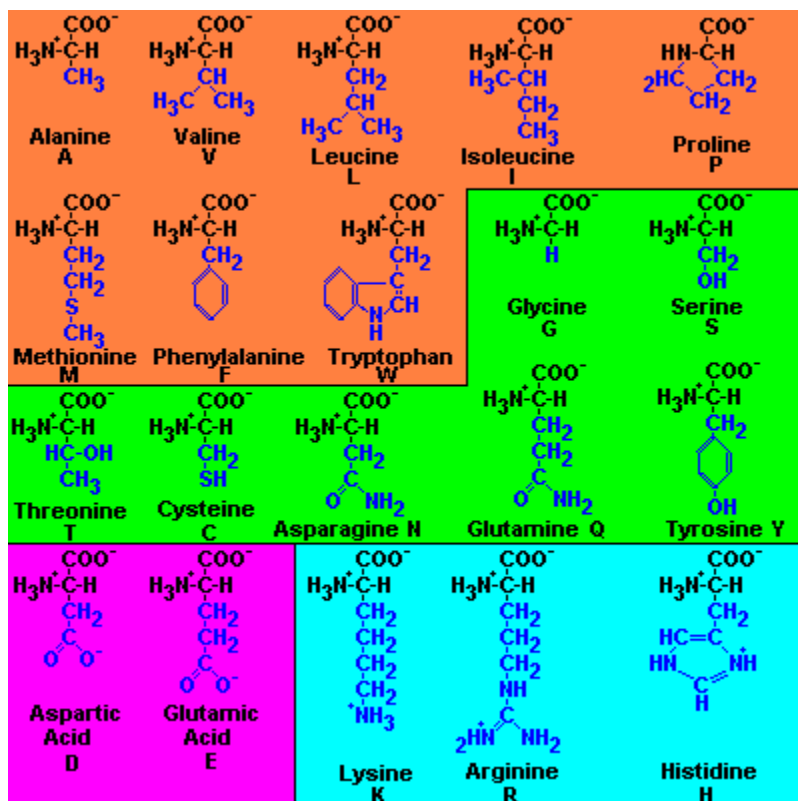


## The 20 Amino Acids



Each amino acid contains an "amine" group ( $\text{NH}_3$ ) and a "carboxy" group ( $\text{COOH}$ ) (shown in black in the diagram).

The amino acids vary in their side chains (indicated in blue in the diagram).

The eight amino acids in the orange area are nonpolar and hydrophobic.

The other amino acids are polar and hydrophilic ("water loving").

The two amino acids in the magenta box are acidic ("carboxy" group in the side chain).

The three amino acids in the light blue box are basic ("amine" group in the side chain).

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