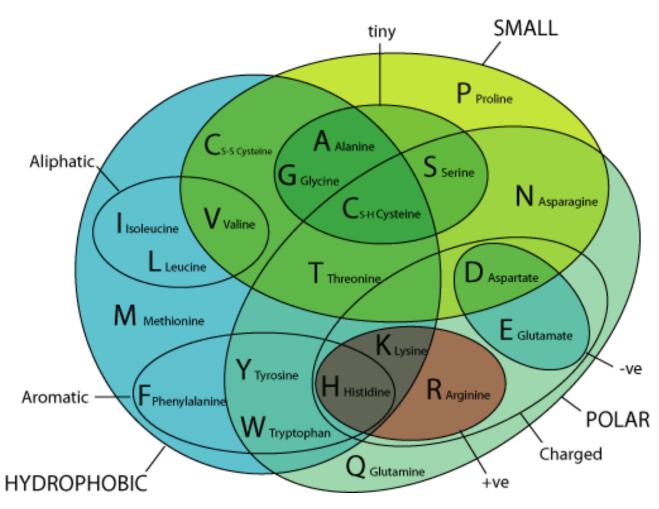
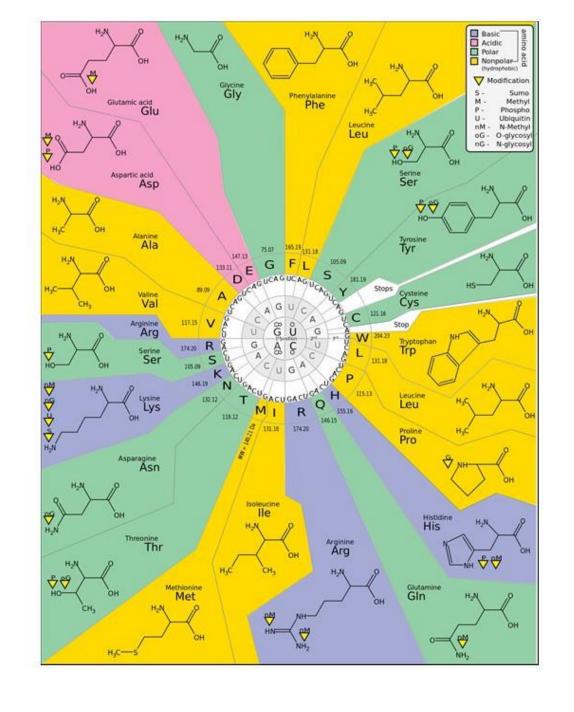
## For Quiz 1-2 (Jan 20), you need to know the amino acids:



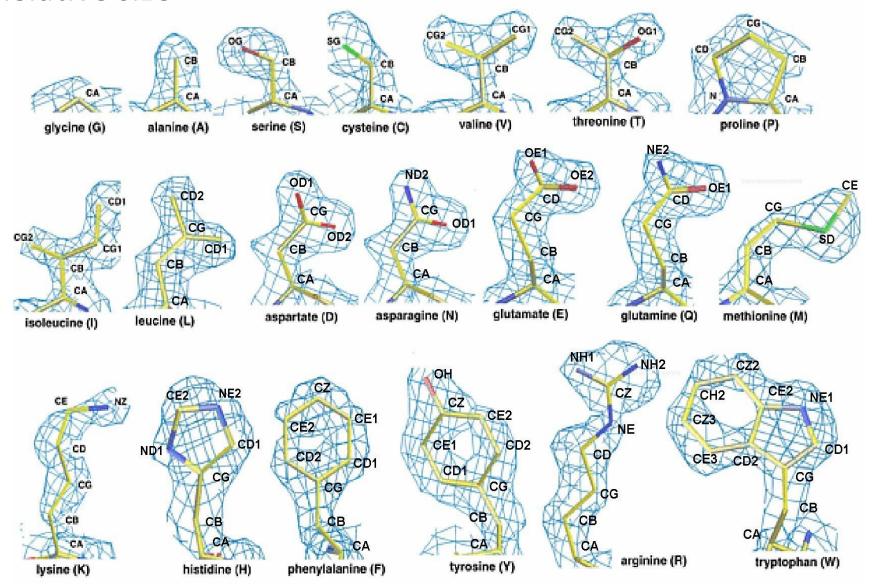
- Full name
- 3- and 1-letter abbreviation
- Physicochemical properties relative to the other amino acids:
  - Size, hydrophobicity, polarity
  - Is the amino acid charged (+ or -) or not?
- If comparing two amino acids, what are their shared and differing properties

See the next 3 slides and page 76 in the textbook.

The bioinformatics alphabet The amino acids...



## Relative size



## Relative hydrophobicity

Amino acid	R	K	N	D	E	Q	Н	P	Y	W	s	T	G	A	М	С	F	L	v	I
Kyte & Doolitle Hydrophobicity Scale	-4.5	•	-3.5								-0.8		-0.4	+1.8	+1.9	+2.5	+2.8	+3.8	+4.2	+4.5
Categorical value	1	2	3	3	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Physicochemical Meaning	<	7 7	N	Mor	е Н	ydro	ophi	ilic						M	ore	Ну	droj	pho	bic	>