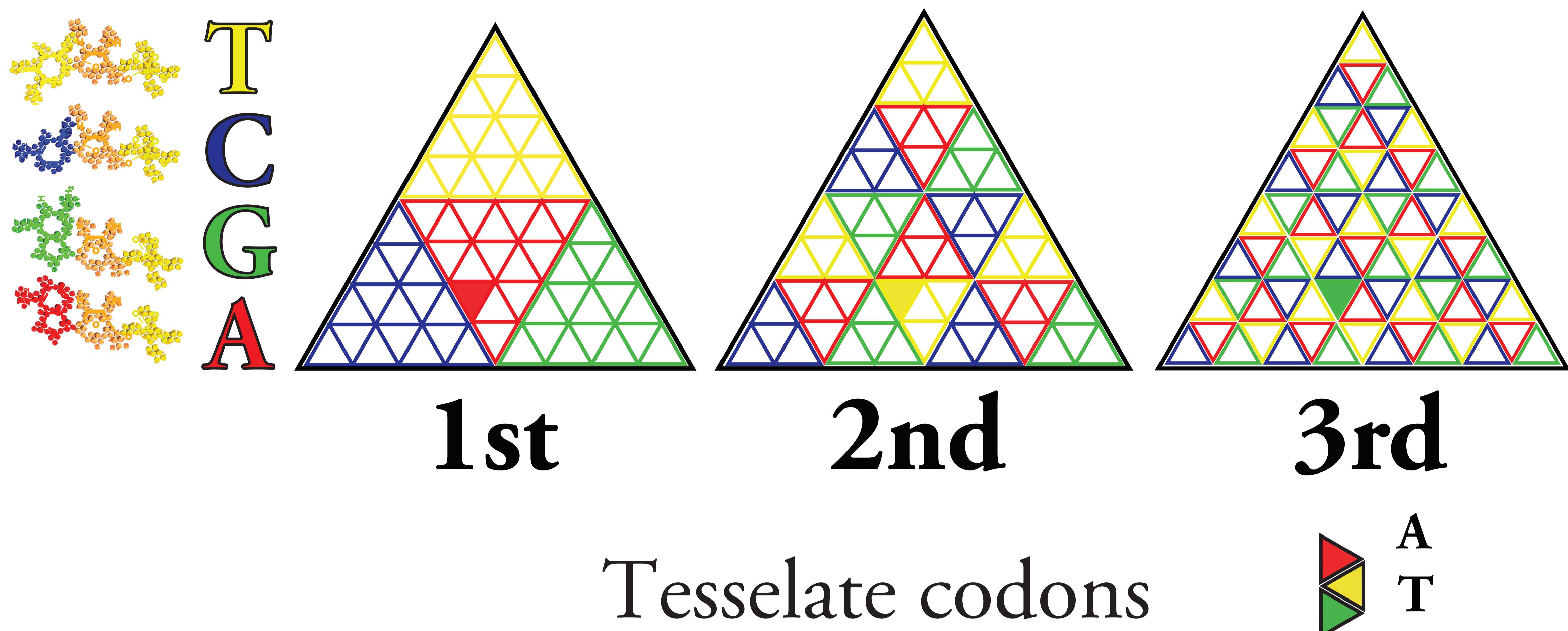
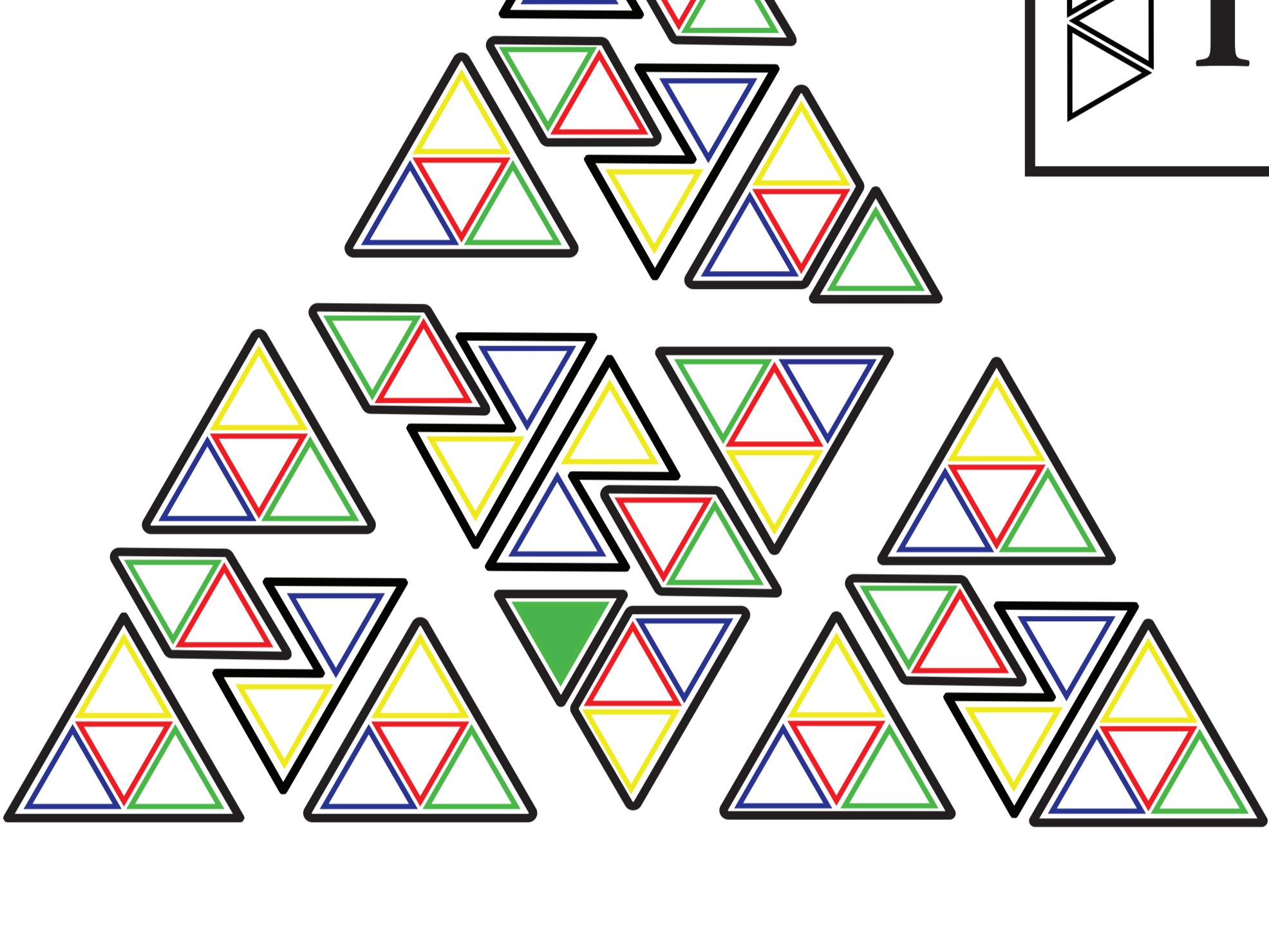
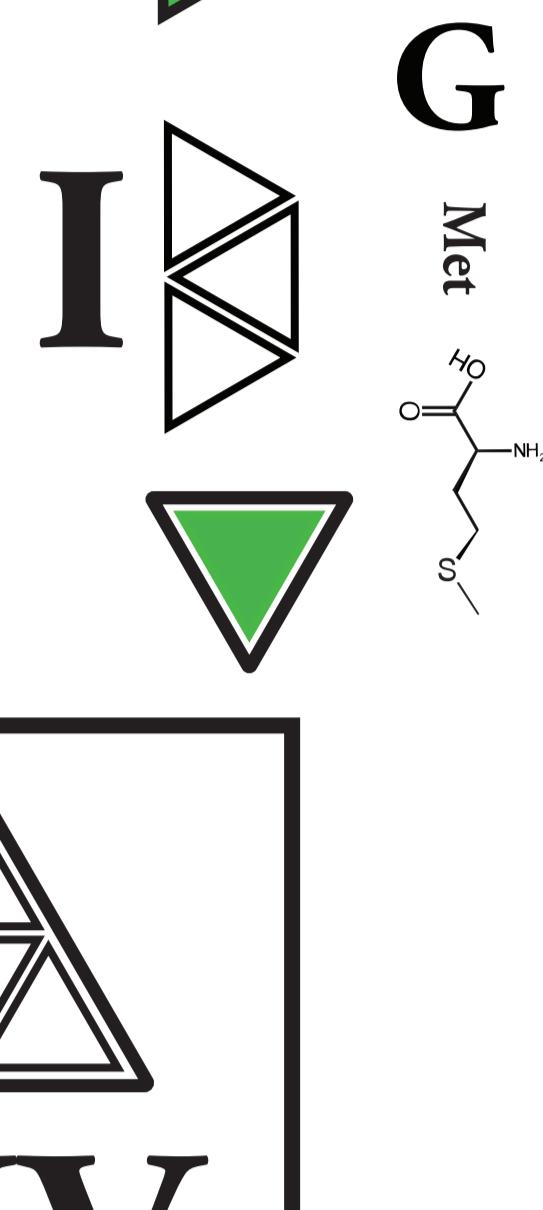


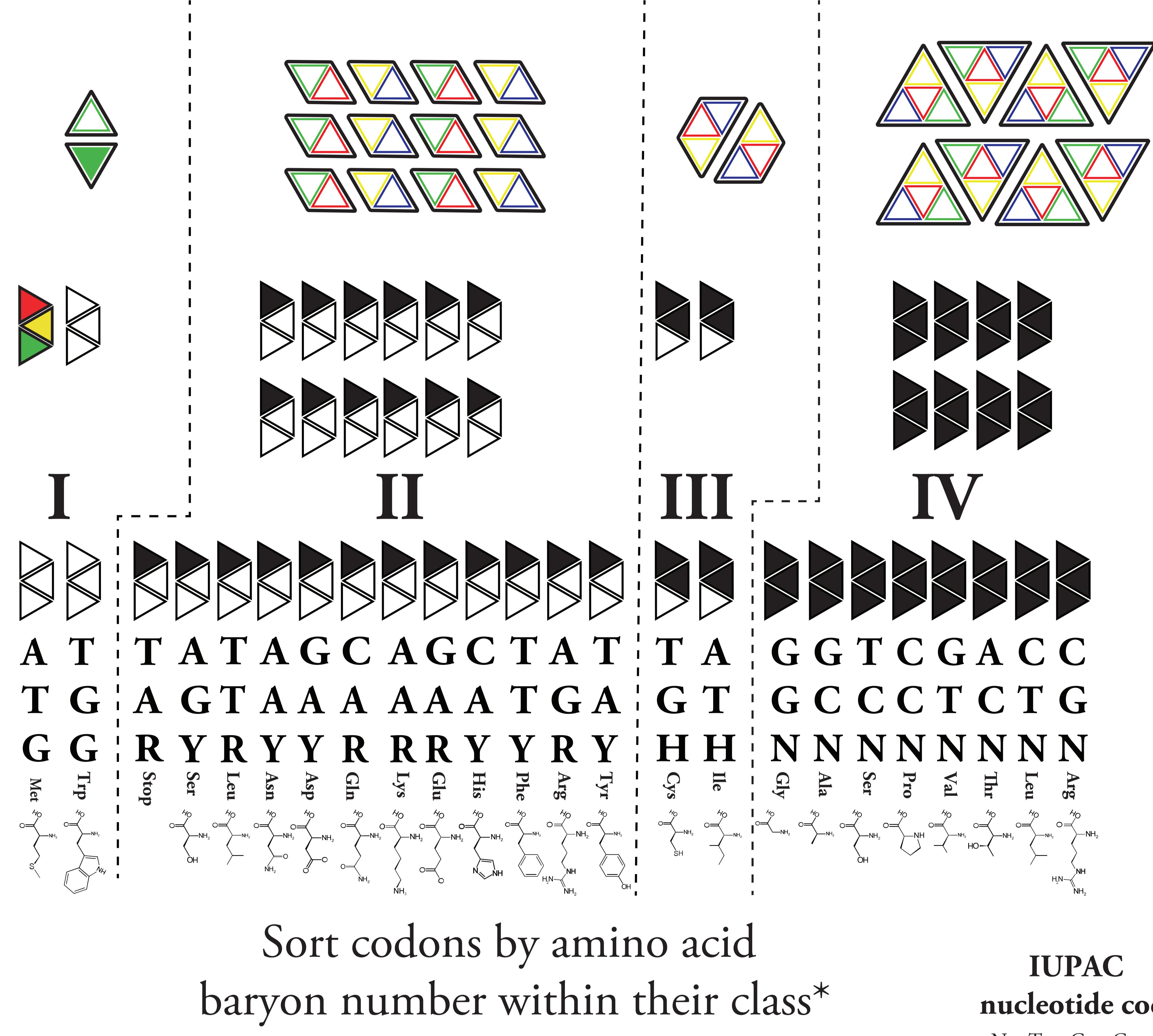
Ordering of Euplotid's codons to generate signal



Tesselate codons
by base



Group and collapse
into classes (I-IV)
using wobble base



Sort codons by amino acid
baryon number within their class*

IUPAC
nucleotide code

N = T or C or G or A

B = T or C or G

D = T or G or A

H = T or C or A

V = C or G or A

R = G or A

Y = T or C

S = C or G

W = T or A

K = T or G

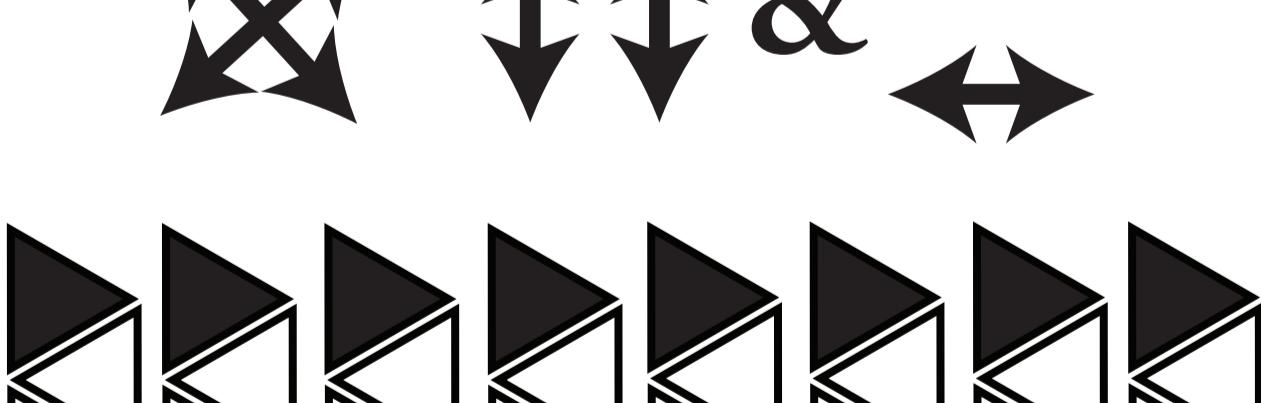
M = C or A

T = T

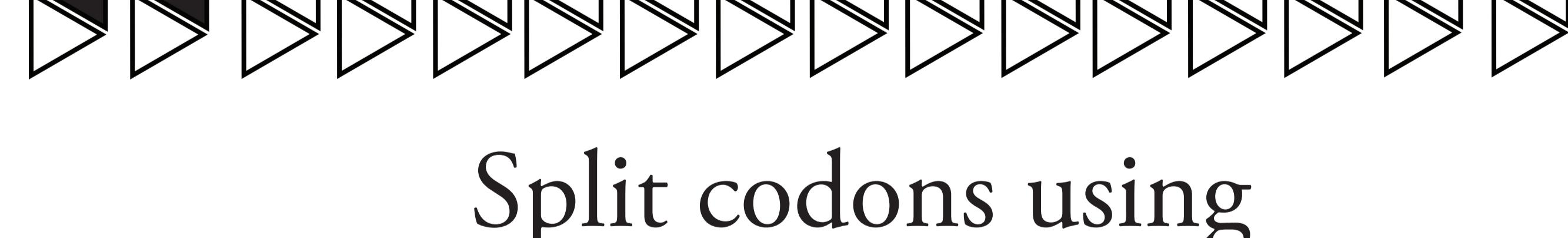
C = C

G = G

A = A



*Hashing collisions
dealt with intelligently



Split codons using
transitions and transversion

1	G G T C G A C C
2	G C C C T C T G
3	N N N N N N N N
	T A T A T A G C A G C T A T
4	T A T A T A G C A G C T A T
5	G T A G T A A A A A A T G A T G
6	H H R Y R Y Y R R R Y Y R Y G G

Interpret signal by rows