


# Doing Much with Little

lessons from the natural and human world



Area	Constituent Forms	Range of Variant Expression
1. Alphabet	26 letters	all words of the English dictionary
2. Genetics	4 nitrogen bases	DNA coding for all human, animal, plant, bacterial, and fungal species
3. Proteins	20 amino acids (actually, 5 are enough to give folding proteins)	amino acids join to form small molecules (peptides) which join to form proteins which do many things in cells
4. Music	8 tones	all melodies, songs, tunes, symphonies, etc.
5. Color	3 colors: red-green-blue	16.8 million RGB colors
6. Sentences	10+1 main forms 	135 sub-forms; infinite variations within its framework