

### POSSIBLE CODINGS:

- a. Feature X: absent (0); rounded and solid (1); rounded and striped (2); square and solid (3); square and striped (4)
- b. Feature X, shape: absent (0); rounded (1); square (2)  
Feature X, color pattern: absent (0); solid (1); striped (2)
- c. Feature X: absent (0); present (1)  
Feature X, shape: rounded (0); square (1)  
Feature X, color pattern: solid (0); striped (1)
- d. Feature X: absent (0); present (1)  
Rounded shape of feature X: absent (0); present (1)  
Square shape of feature X: absent (0); present (1)  
Solid coloring of feature X: absent (0); present (1)  
Striped coloring of feature X: absent (0); present (1)

### ASSUMPTIONS/LIMITATIONS:

- a. “composite” coding – each observed variant is coded into its own character state; no interdependence between features;
- b. absence of X coded twice – redundant; presence of X cannot be synapomorphic;
- c. taxa lacking X cannot be scored for 2nd and 3rd features
- d. “reductive” coding – each state is its own character; character independence compromised if characters are linked (i.e., if score of one affects that of another)