

ALL MINTINI BEAD TYPES:

I. Prefix: (1 letter per bead)

T: Tiny (2 big atoms)

S: Small (3 big atoms)

L: Large (4 big atoms)

II. Capitalized Characters: (1 letter per bead)

- These beads represent the entire molecule with just 1 bead

F: Full bead (no sidechains)

U: with 1 sidechain (T piece in Tetris)

- These beads are linear with possible linear continuations only

E: Edge beads: 1 continuation path

C: Continuation beads: 2 continuation paths on each side

- These beads regard the connection between the backbone and the sidechains

Y: 3 ways intersection beads (1 sidechain node with 1-2 backbone nodes)

V: Y but the sidechain has length 1 or 2 so there is no/limited continuation from the sidechains

W: V but there is a lone node in the backbone that needs to be merged

(1-2 sidechain nodes with 1 backbone nodes)

- These beads regard the triple bonds:

X: Triple bond beads

- These beads are preserved are extreme edge cases:

Z: Sidechain with length 1, and is 1 node away from the end of a backbone

H: Sidechain with length 2+, and is 1 node away from the end of a backbone

O: the only bead with 1 C (preserved for methane, CH₄)

III. Lowercase Letters: (0-2 letters per bead)

empty: all continuations are singular bond

d: all continuations from the backbones are double bonds

m: left continuation is singular, right is double

r: left continuation is double, right is singular

s: continuation from the sidechain is a double bond