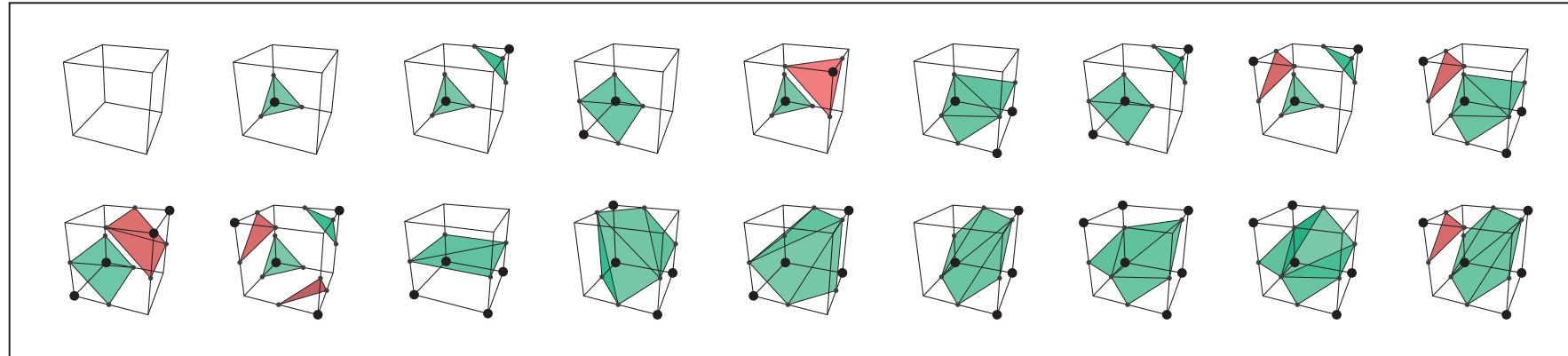# The Transvoxel Algorithm

transvoxel.org

Regular cells
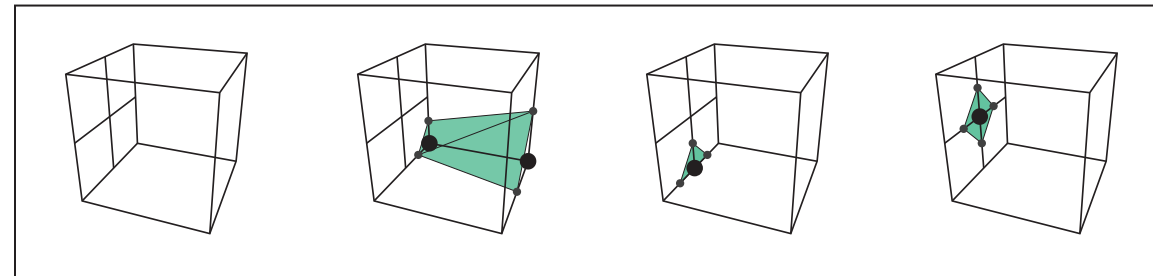
256 distinct cases
18 equiv classes

Marching cubes with preferred polarity for ambiguous faces.

Transition cells
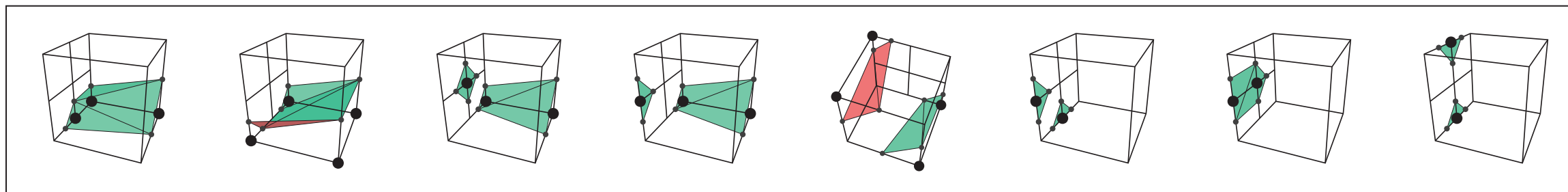
512 distinct cases
73 equiv classes

Group A
20 cases

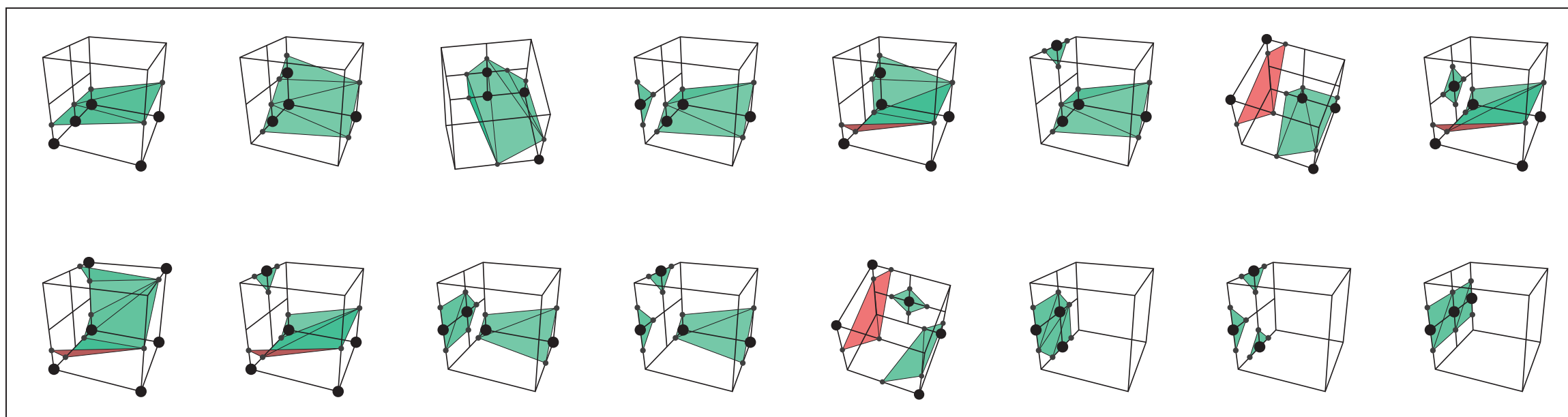Trivial class and all classes having one interior voxel.

Group B
62 cases

All classes having two interior voxels.
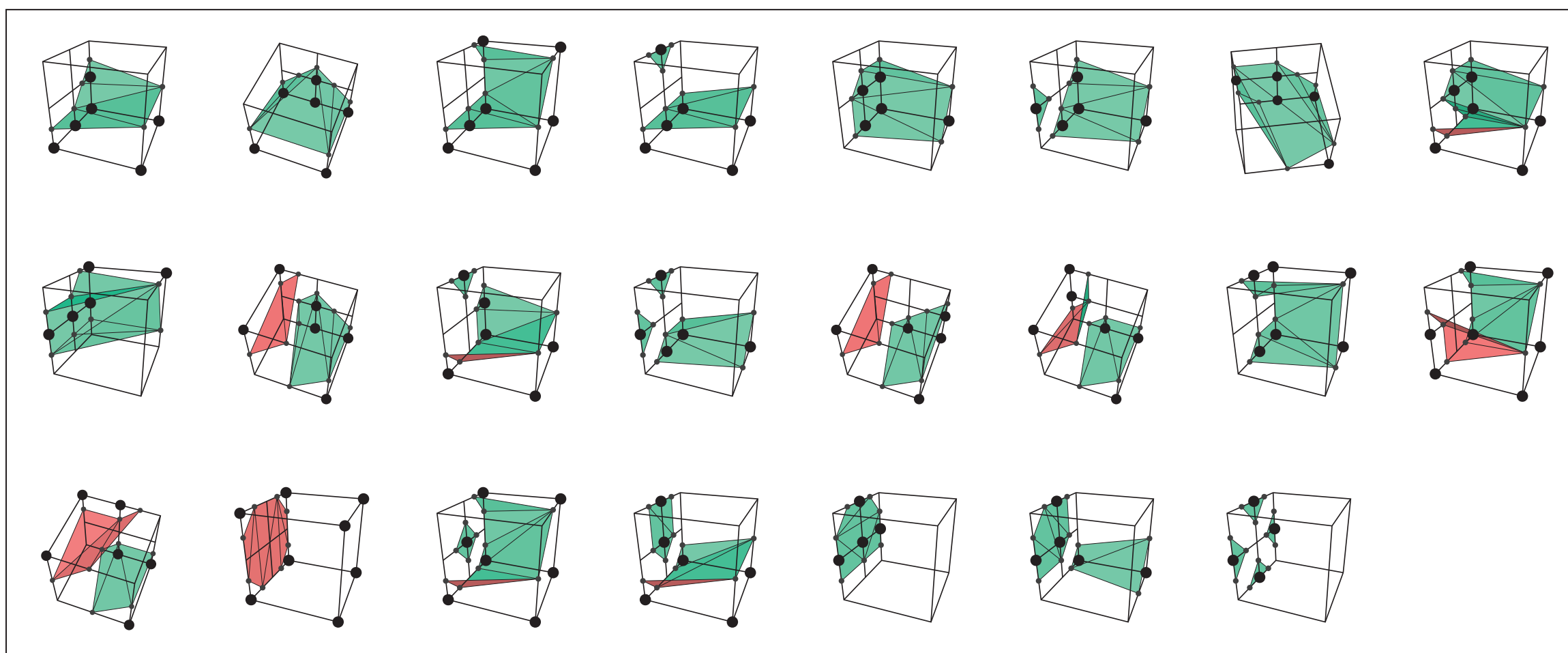
Group C
130 cases

All classes having three interior voxels.
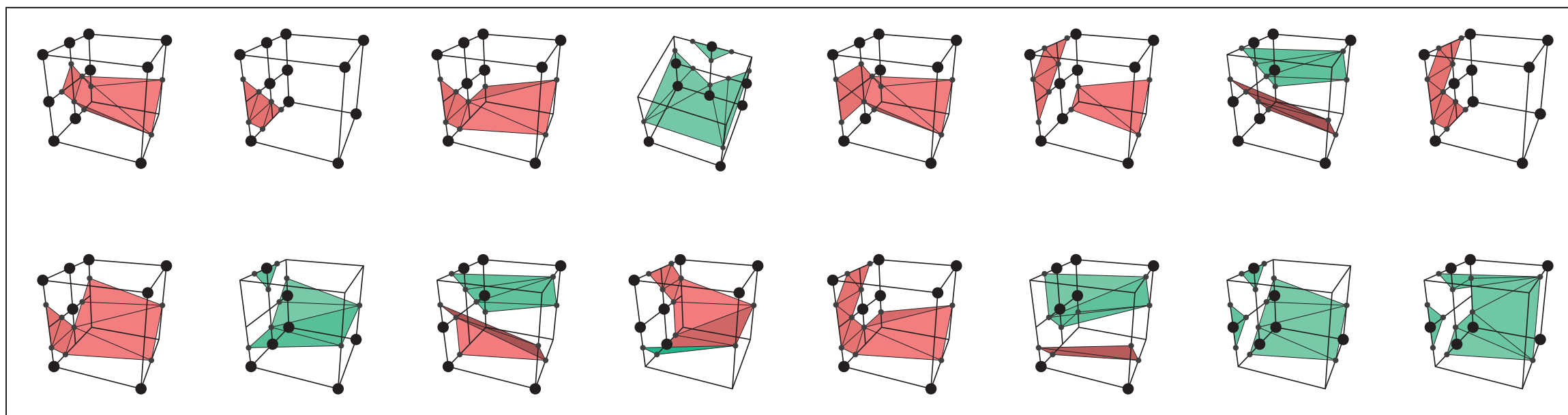
Group D
187 cases

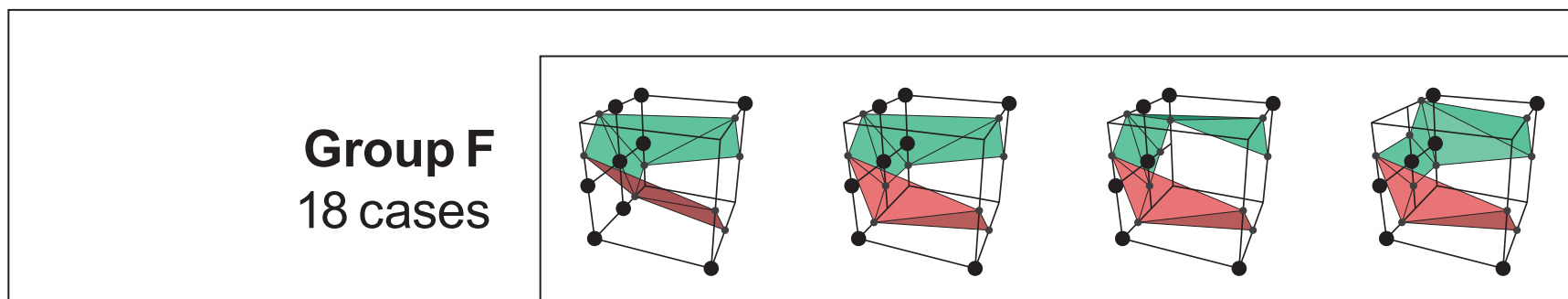All classes having four interior voxels.

Group E
95 cases

Inverses of classes in groups B, C, and D having at least one ambiguous quadrant on the full-resolution face.

Group F
18 cases

Inverses of classes in groups B, C, and D having no ambiguous quadrants, but for which the half-resolution face is ambiguous.