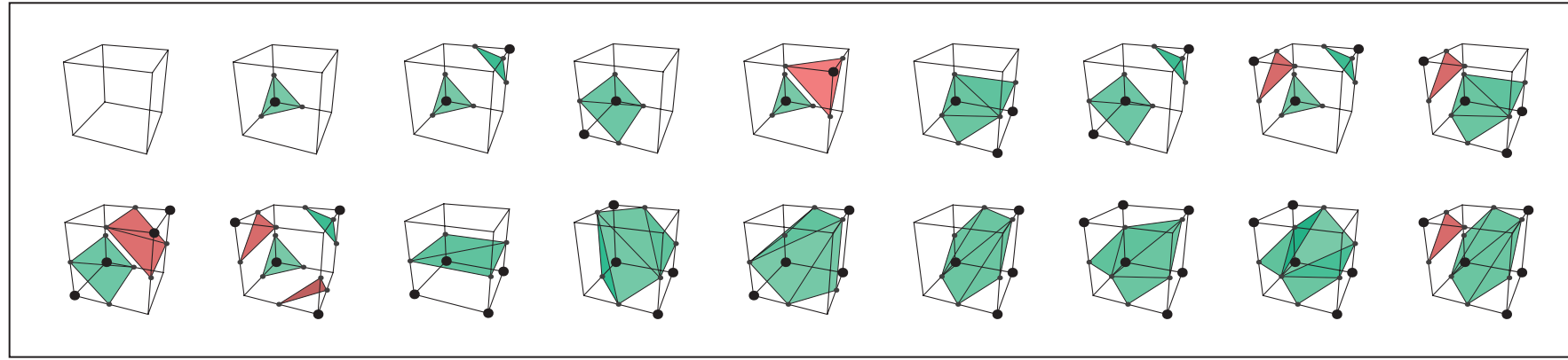


The Transvoxel Algorithm

transvoxel.org

Regular cells

256 distinct cases
18 equiv classes

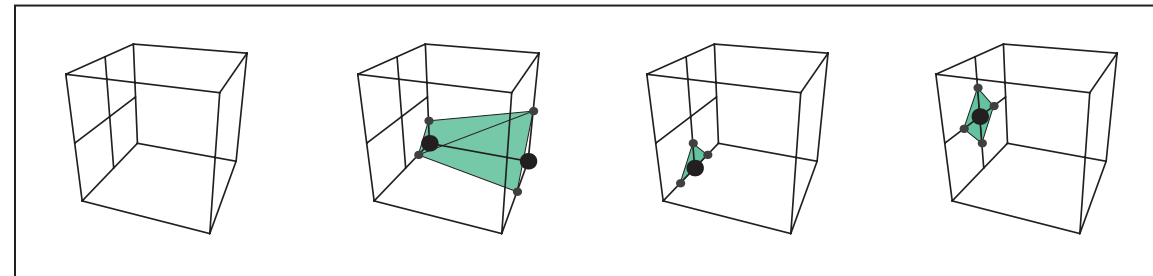


Marching cubes with preferred polarity for ambiguous faces.

Transition cells

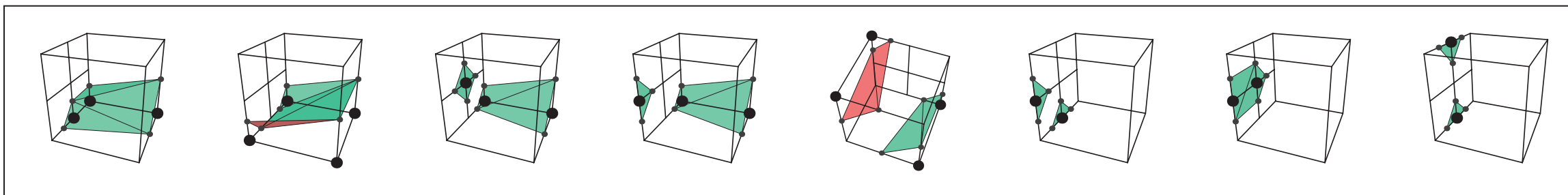
512 distinct cases
73 equiv classes

Group A 20 cases



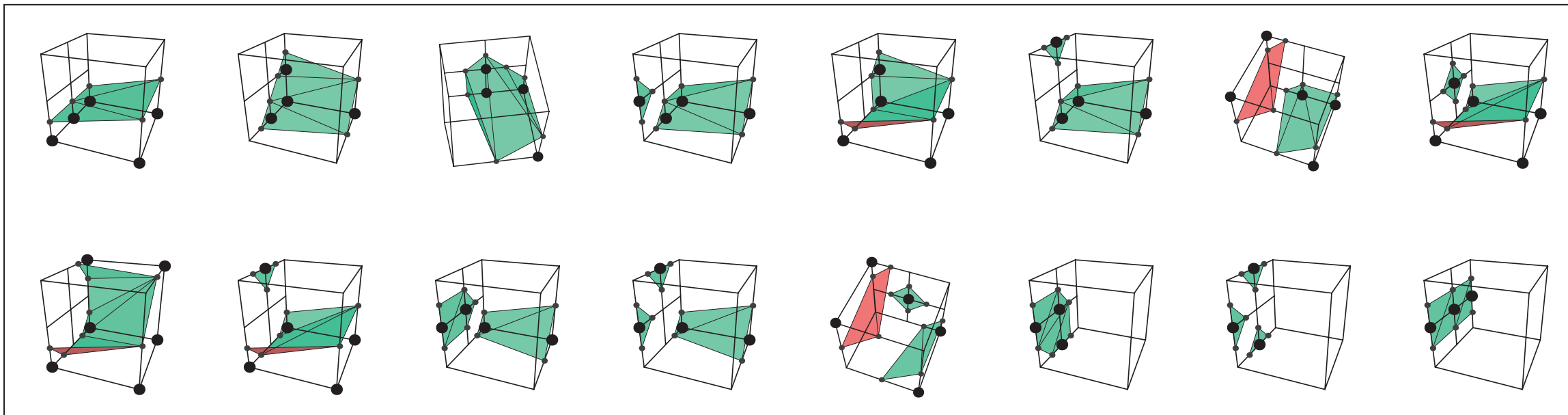
Trivial class and all classes having one interior voxel.

Group B 62 cases



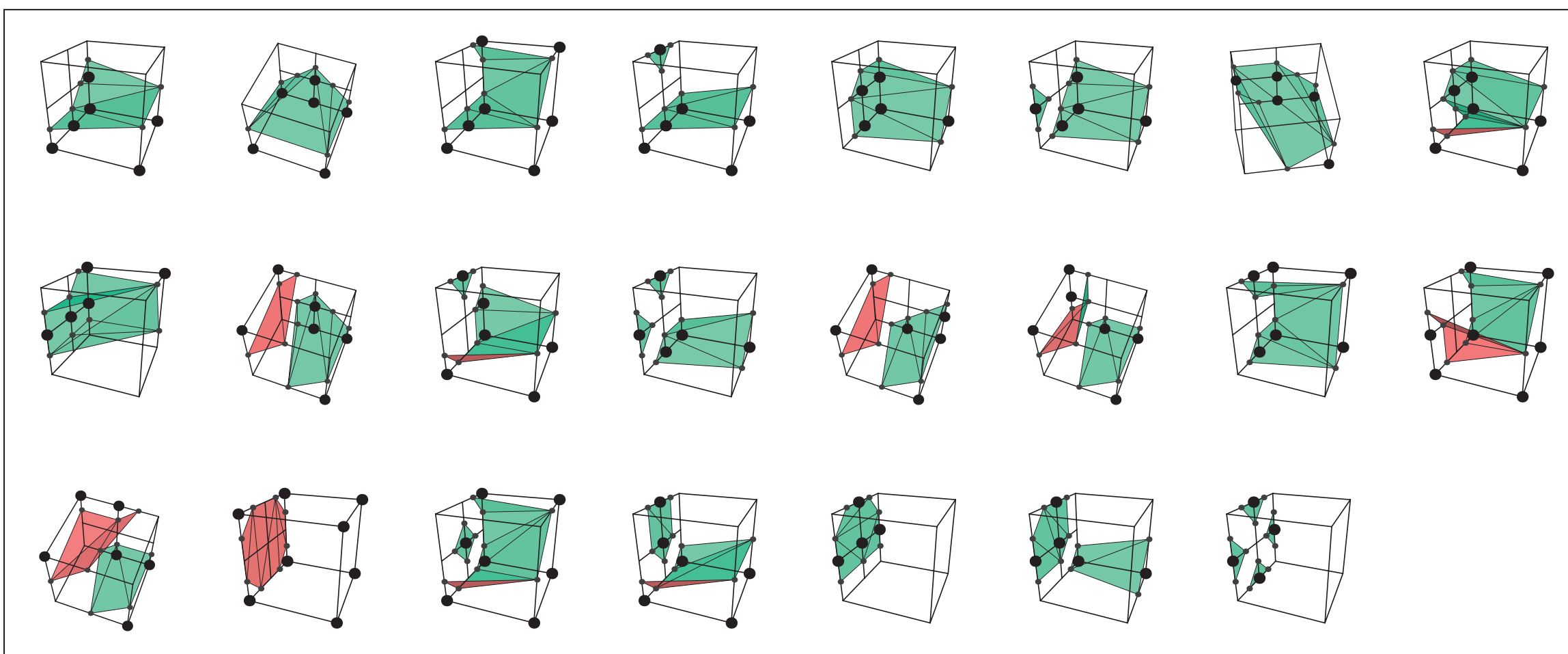
All classes having two interior voxels.

Group C 130 cases



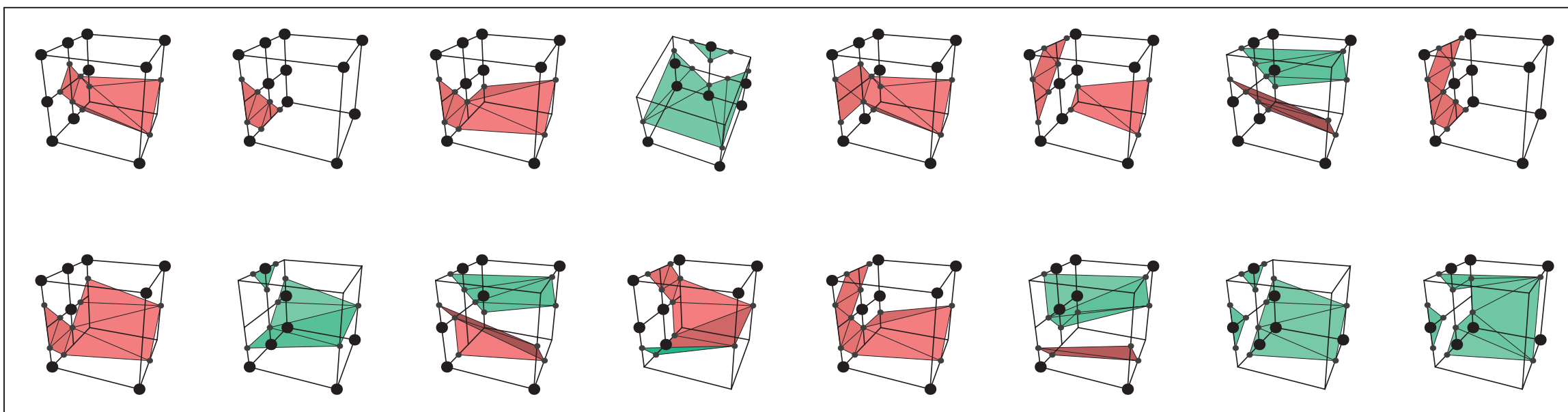
All classes having three interior voxels.

Group D 187 cases



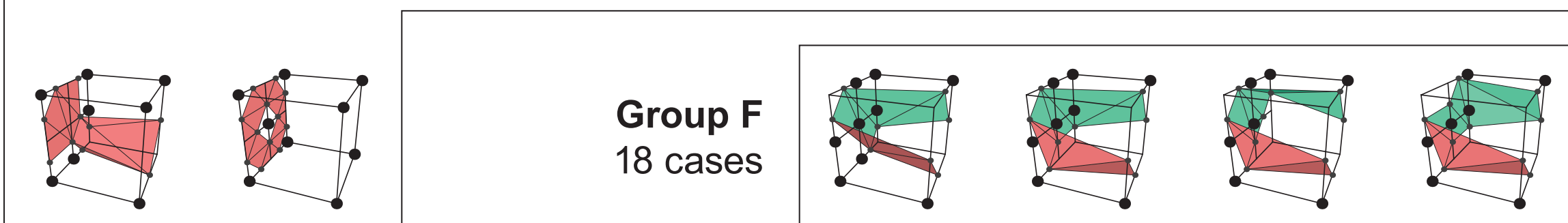
All classes having four interior voxels.

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.