The Transvoxel Algorithm

**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.