

Fig 1: The interpolation of a set of sample points by a triangle mesh


Fig 2: The interpolation of a set of sample points may have the wrong smoothness or connectivity.


Fig 3: A simple triangle mesh is a planar triangle graph.


Fig 4: Splitting a triangle to remove a T-junction


Fig 5: Local border operators.


Fig 7: Typical starting Edgebreaker sequence, producing the clers stream CCCCCRCCRCRC


Fig 6: Edgebreaker CLERS states and labels.


Fig 8: An $S$ triangle early in the spiral.


Fig 9: A more complex Edgebreaker beginning producing the clers stream CCCRCCCRCCCRCCCRRLCCCRCSLE


Fig 10: Typical ending Edgebreaker sequence, producing the clers stream CRSRLECRRRLE


Fig 11: Free border orientation for Wrap\&Zip. Initial triangle on the left.

Fig 12: Zipping up the triangle tree.


Fig 13: Zipping up the triangle tree.


Fig 14: Non-manifold solid with a non-manifold edge (left) and vertex (right).


Fig 15: A non-manifold solid.


Fig 16: A non-manifold solid.


Fig 17: A triangle mesh with a hole


Fig 18: Filling the hole with a dummy vertex.


Fig 19: Discovering handles when returning to an $S$ triangle.


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Fig 20: Parallelogram used for predicting a vertex.


Fig 21: Vertex insertion (the inverse of an edge collapse).


Fig 22: Vertex clustering.


Fig 23: Error/time evolution.
Bits transmitted (or time)


Fig 24: Progressive transmission (crude model plus upgrades)


Fig 25: Triangles inserted in one batch


Fig 26: Models used to test our progressive transmission

