

A Dynamic Surface Reconstruction Framework for Large Unstructured Point Sets

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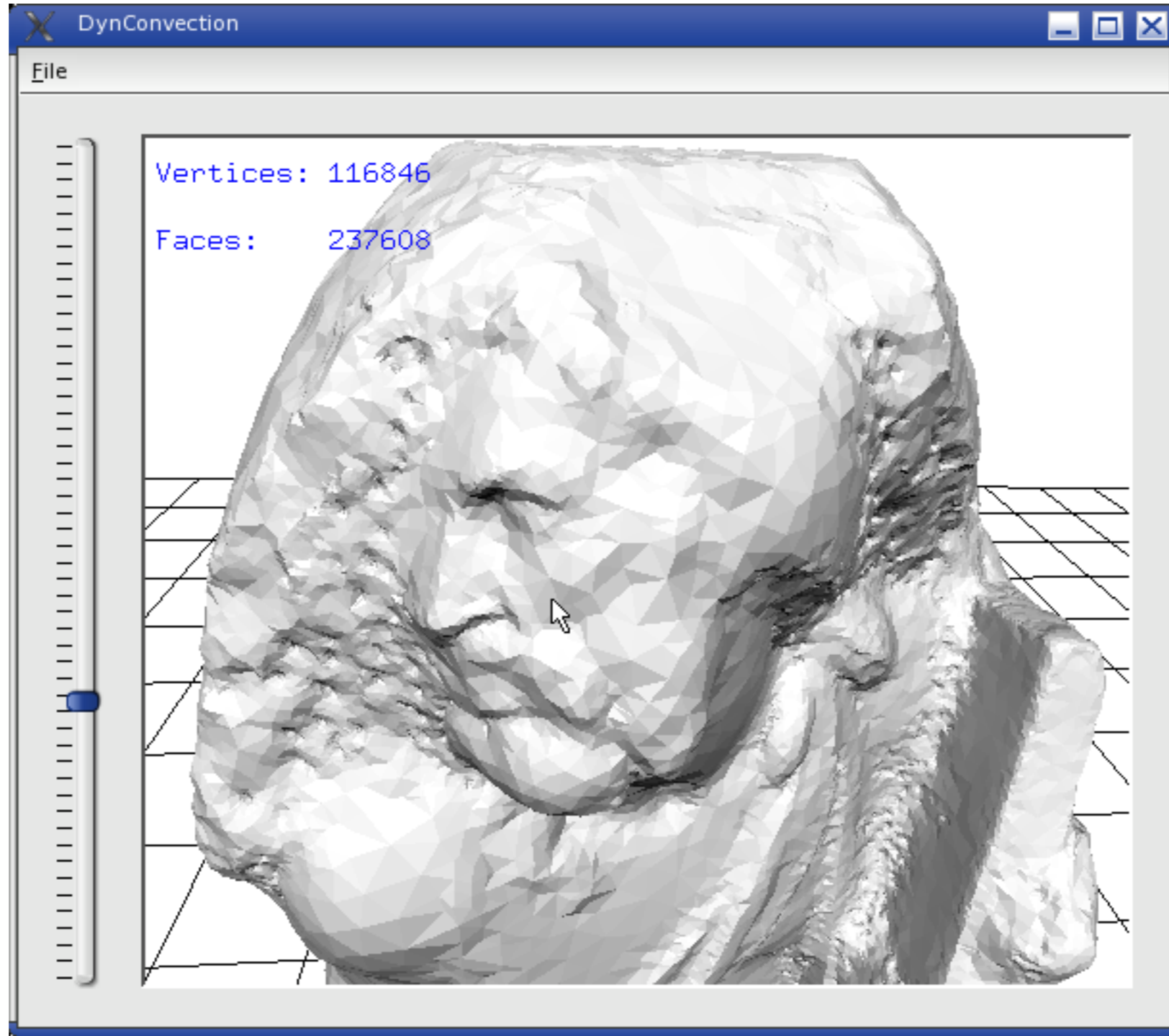
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Snapshots of dynamic refinement
on St. Matthew's face

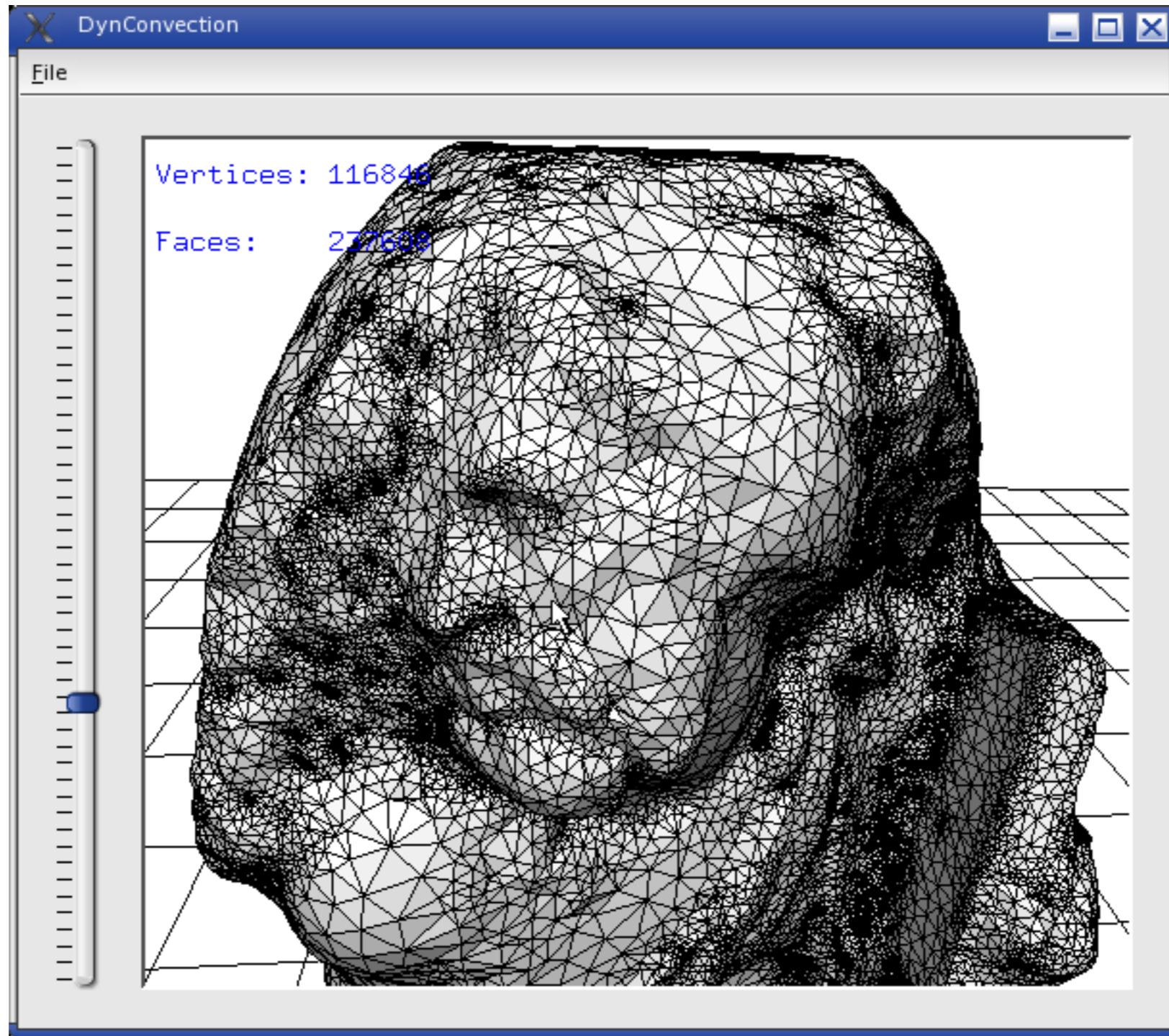


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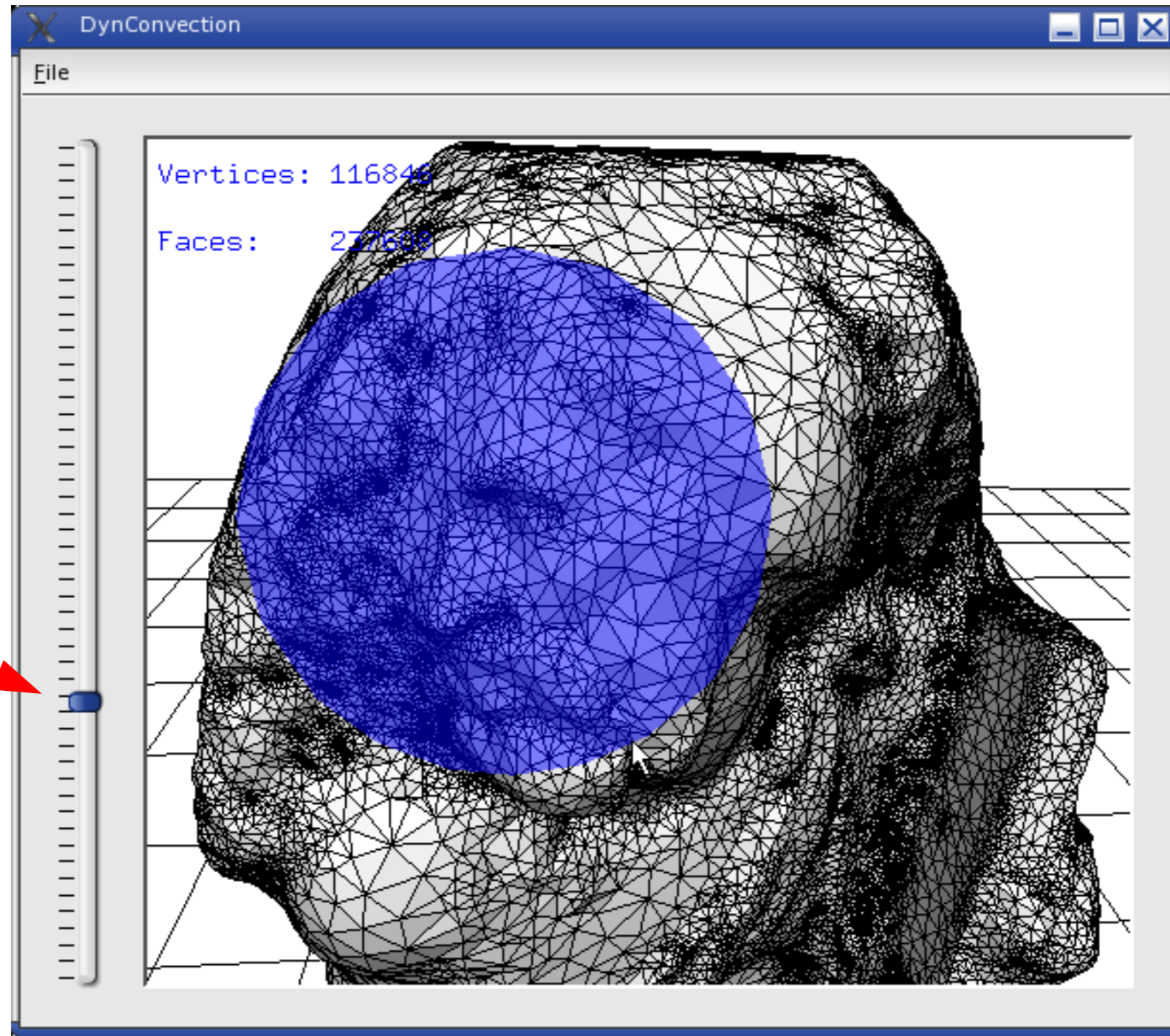
The original model has 26M points. The result of an initial simplified reconstruction with 117k points is loaded.



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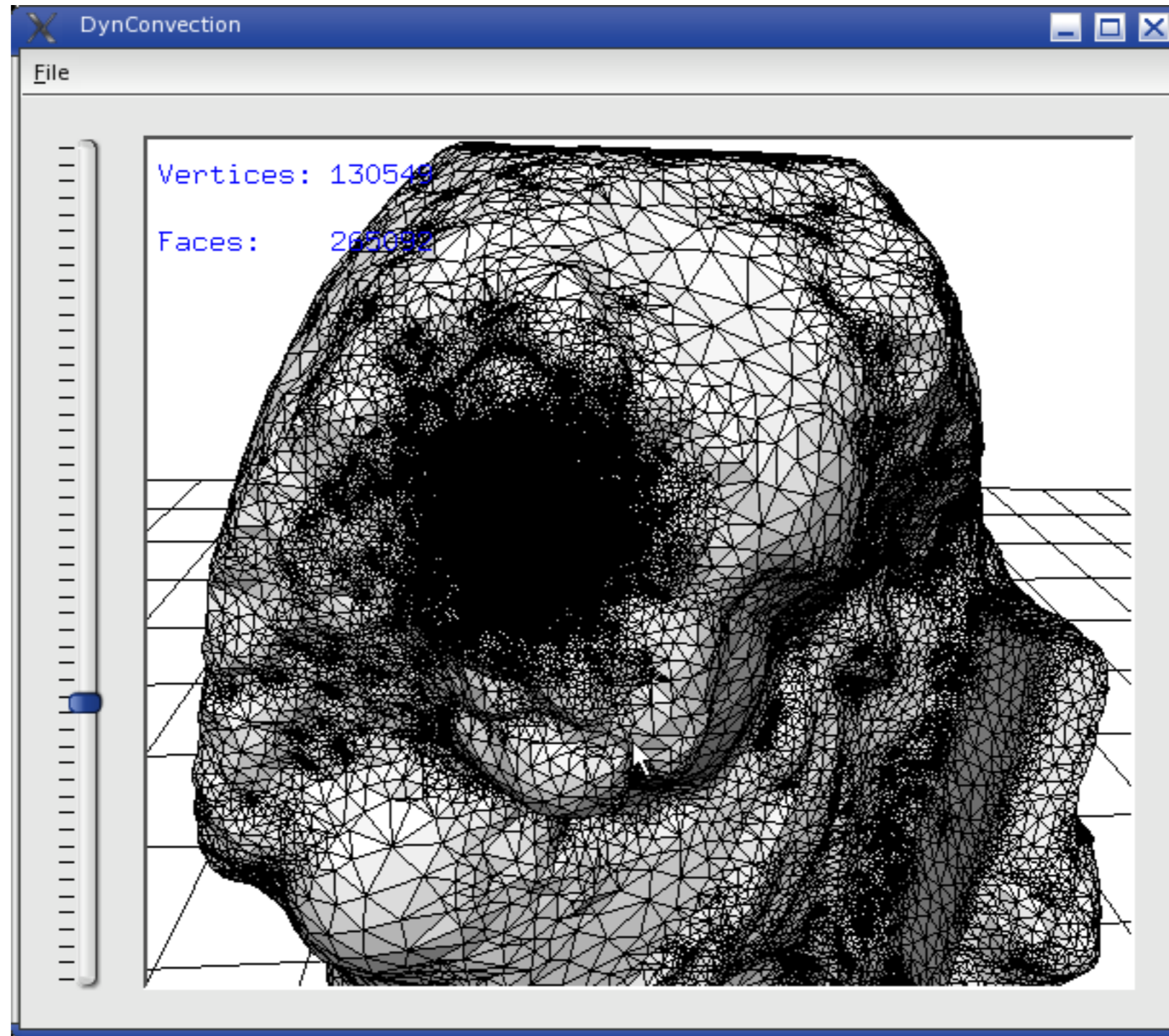


A region to refine is selected on the mesh. The level of detail for this region is set to a high value.

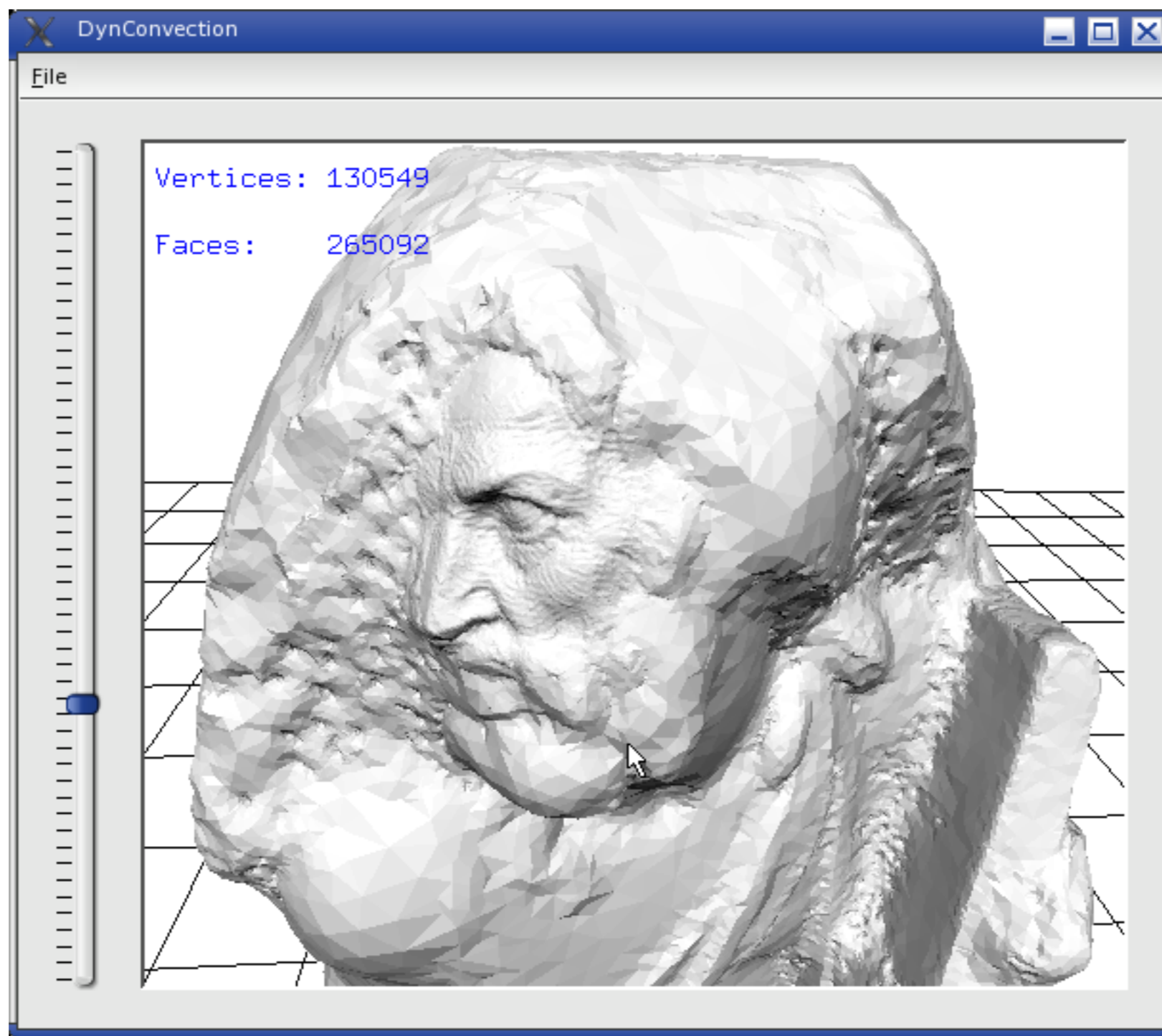


Slider for the level of detail

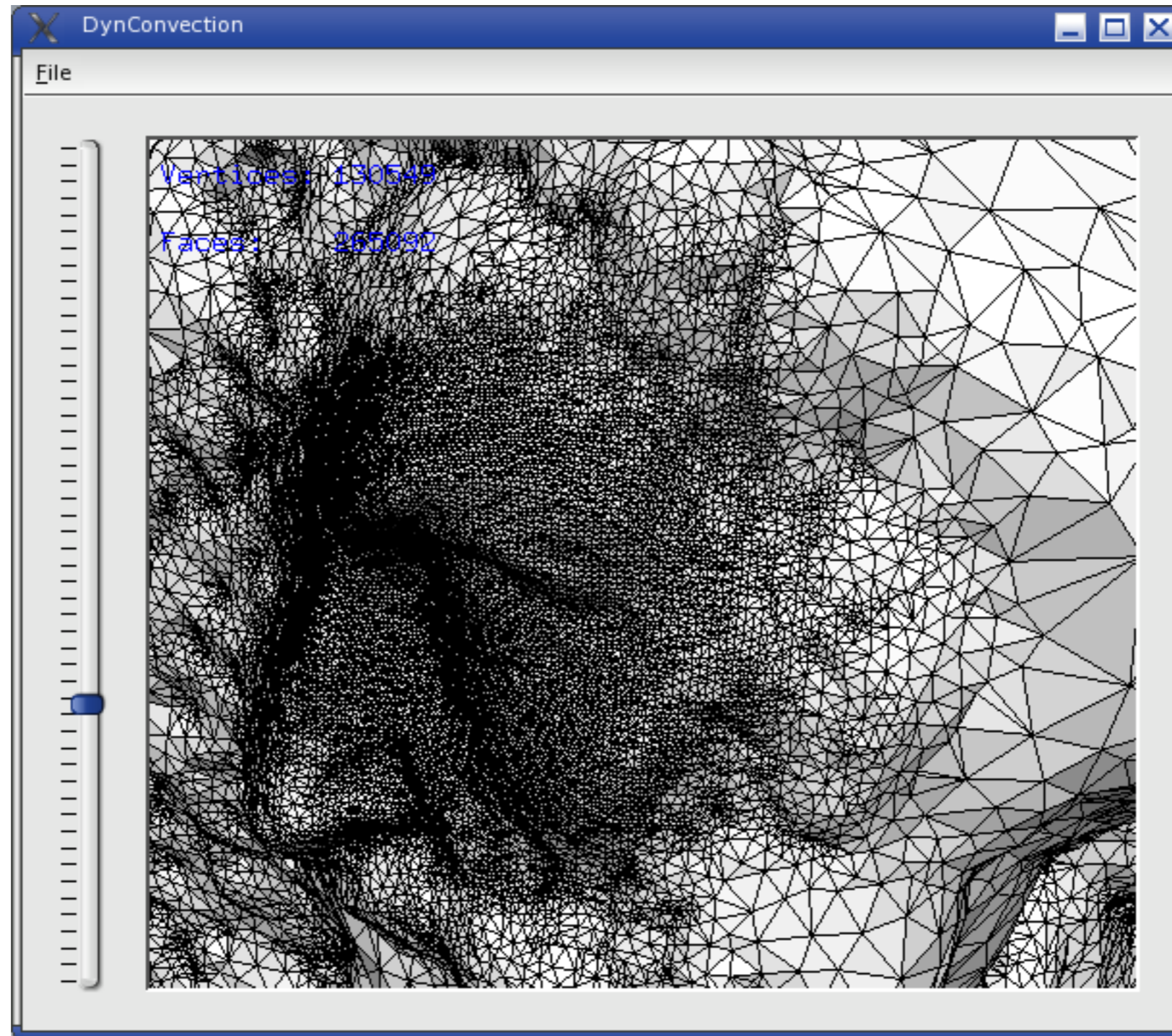
The local update is performed in 11 seconds using our *accelerated selective reconstruction algorithm*.



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Close-up view of the locally refined mesh surface.



Close-up view of the locally refined mesh surface.

