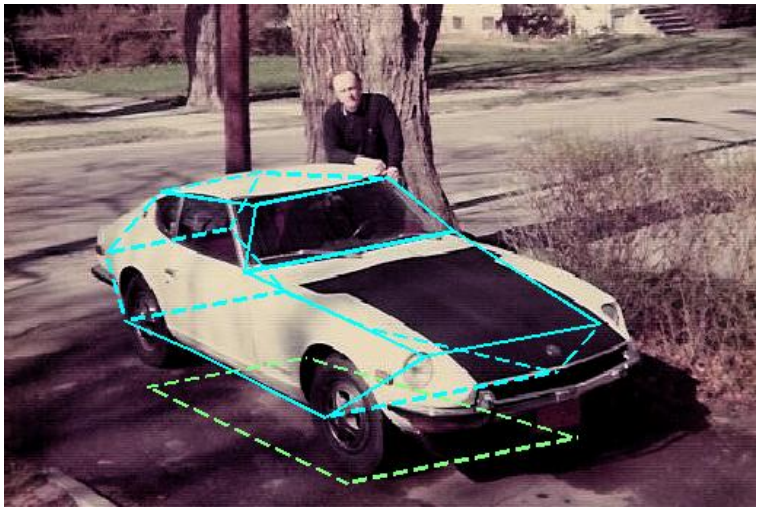

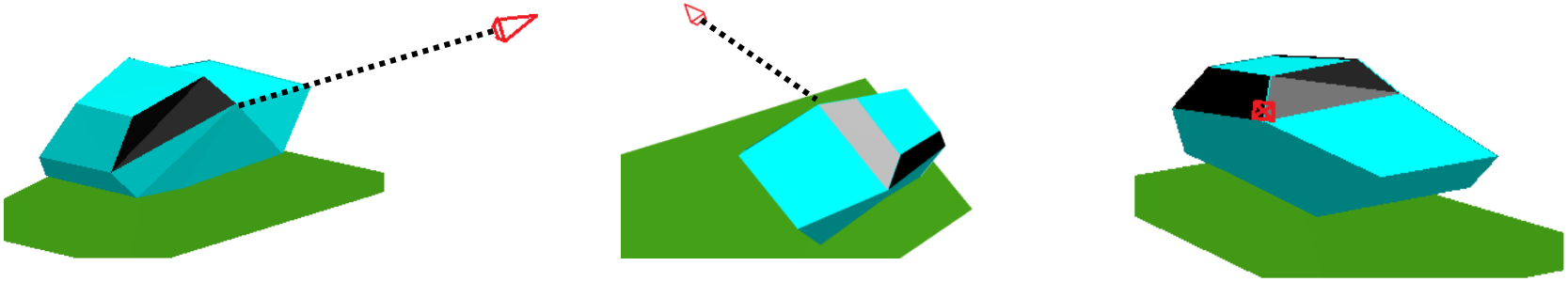

Analyzing 3D Objects in Cluttered Images

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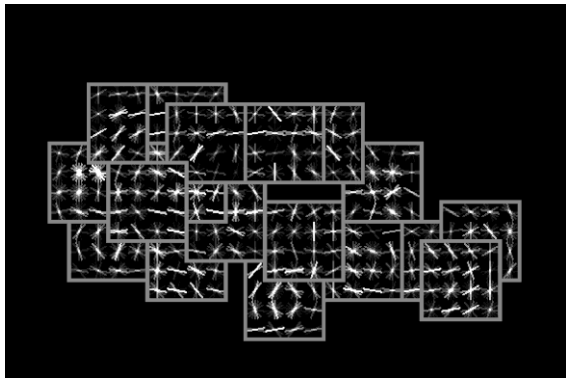
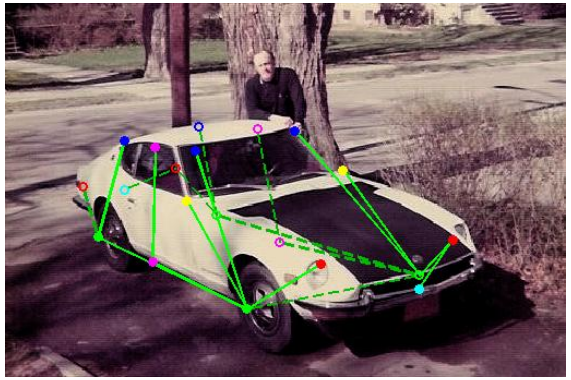
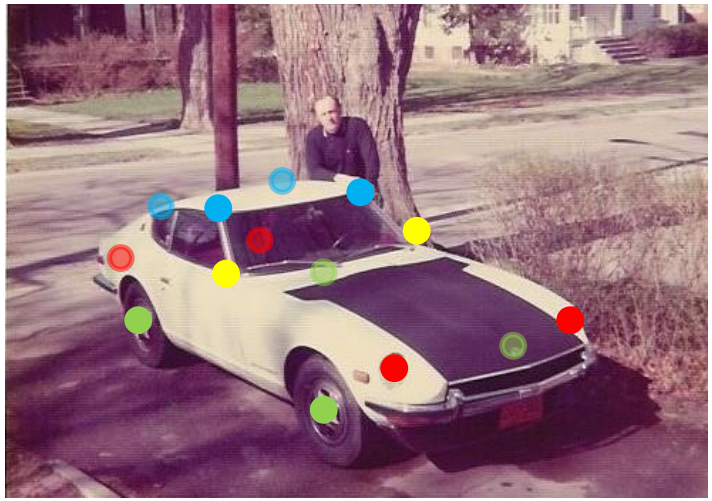
2D shape and appearance compositional representation





3D shape and Viewpoint



2D Landmark Locations

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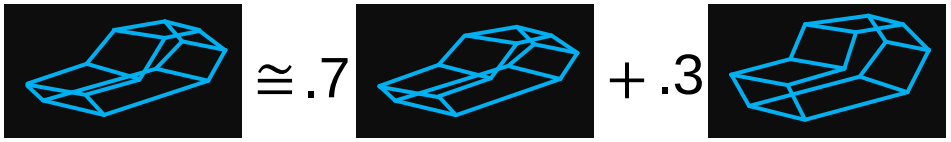
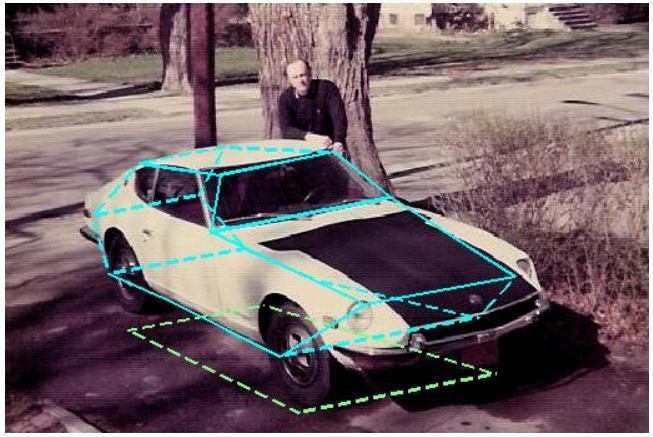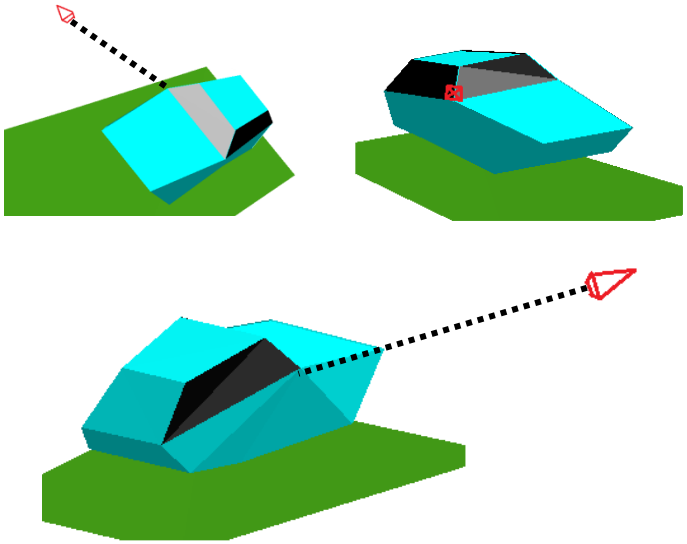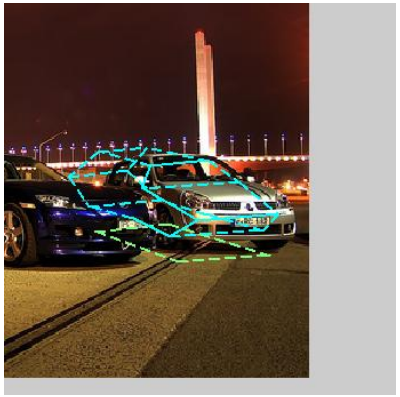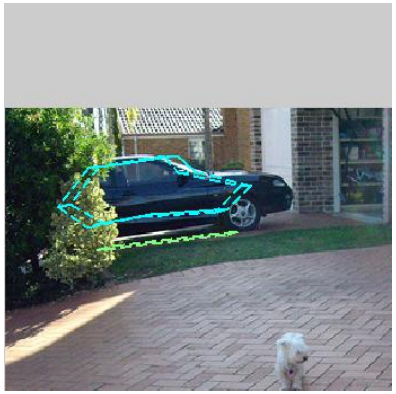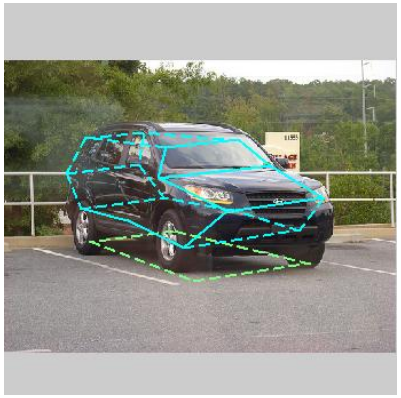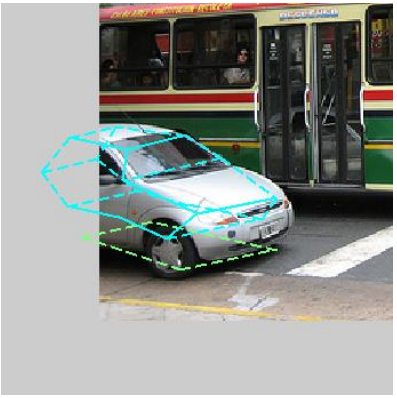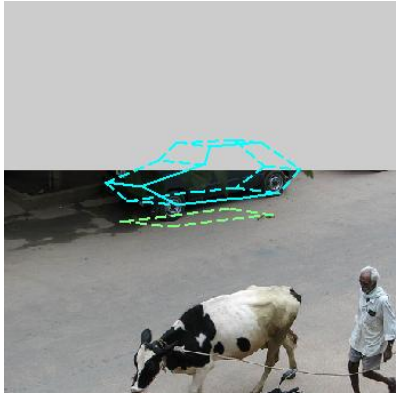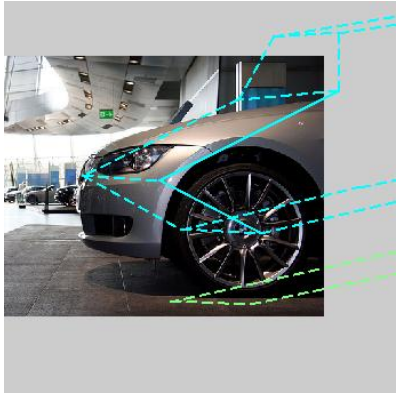
3D shape basis