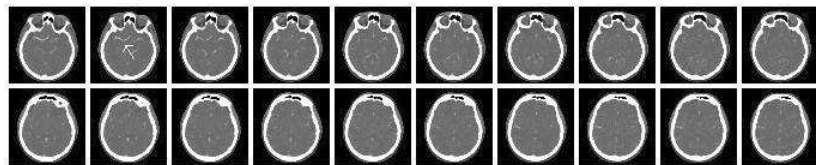


# Volume Visualization

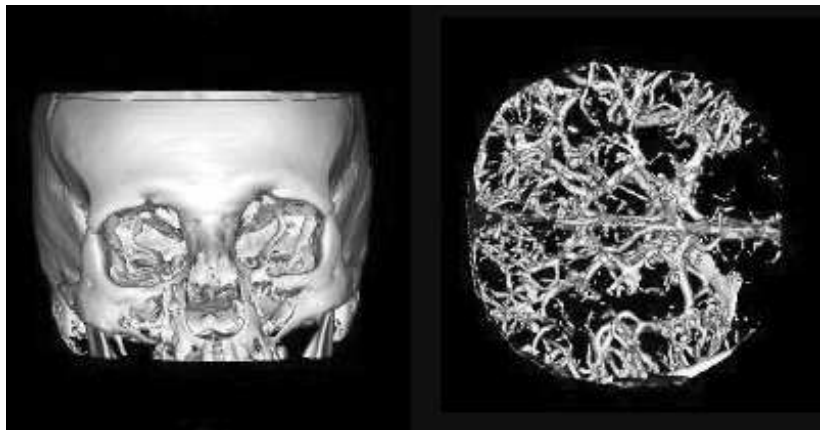
**Gerald Farin, Dianne Hansford**  
Arizona State University

November 30, 2008

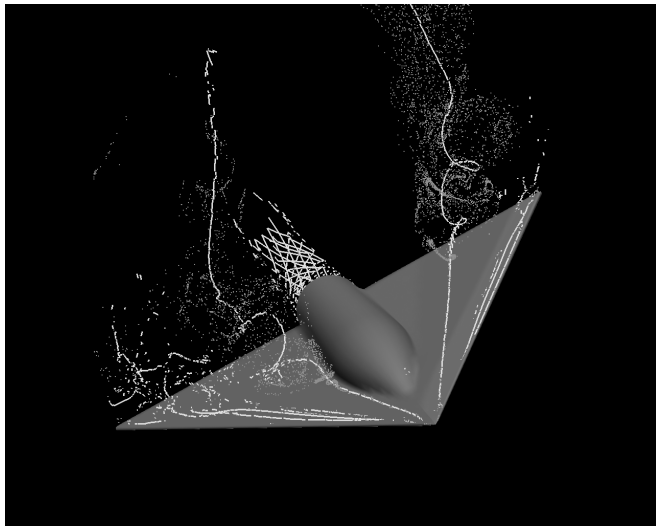
# Brain CT scan



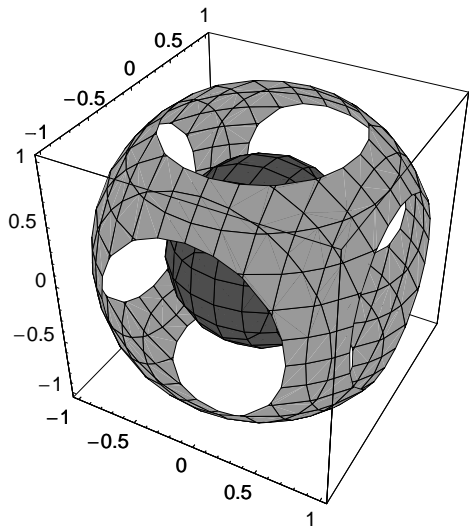
## 3D Brain segmentation



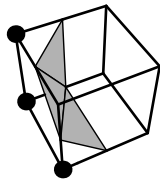
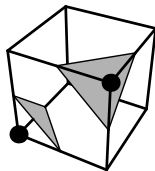
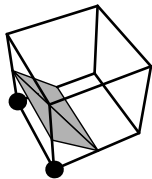
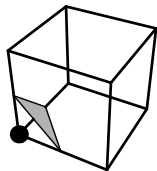
# Air Flow Simulation



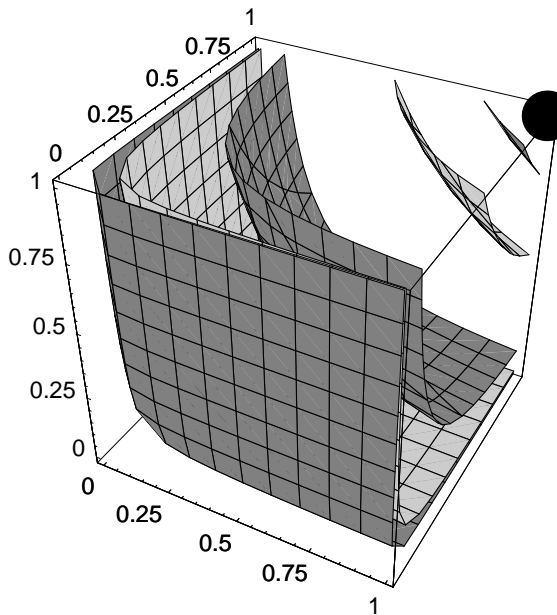
# 3D Contours



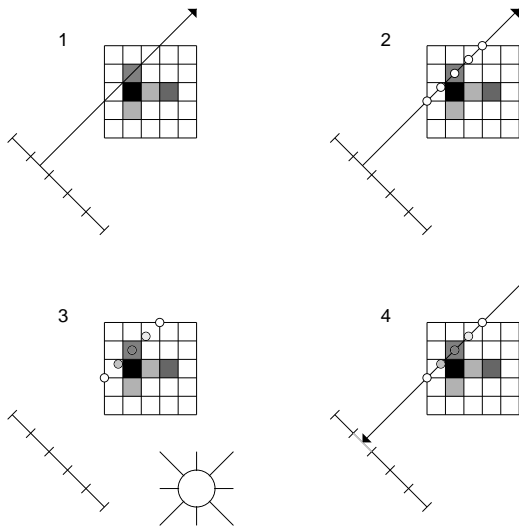
# Marching Cubes



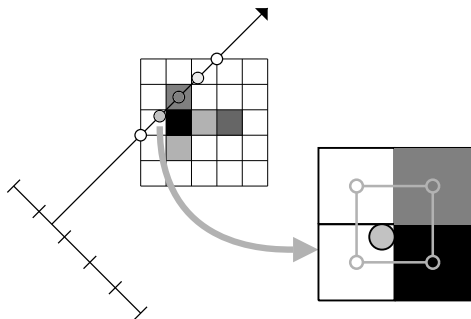
# Marching Cubes



# Direct Volume Rendering

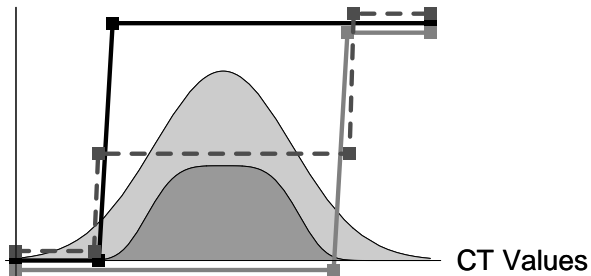


# Direct Volume Rendering

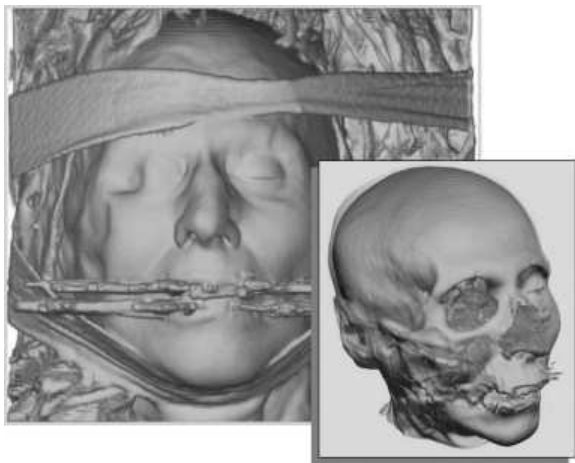


# Transfer Function

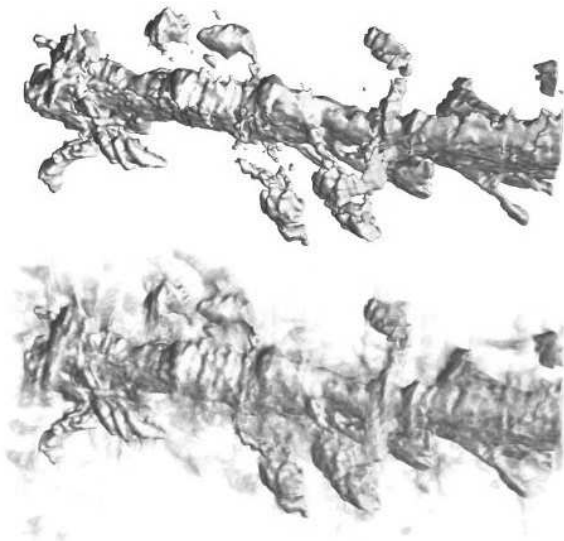
Frequency / Color Value



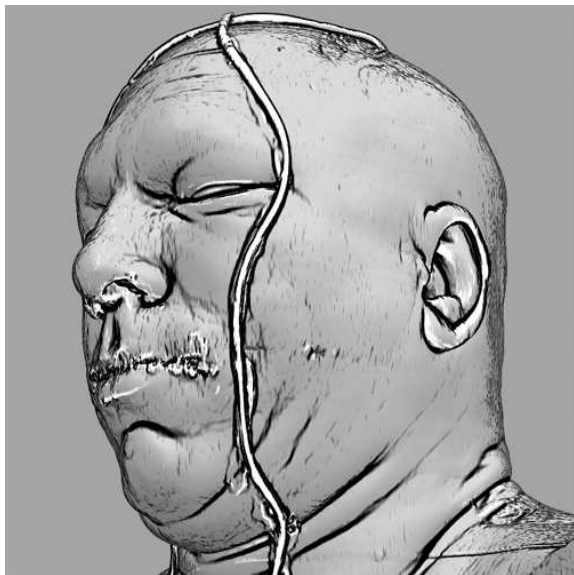
# Transfer Function



## Contouring vs DVR



# Visible Male / NPR



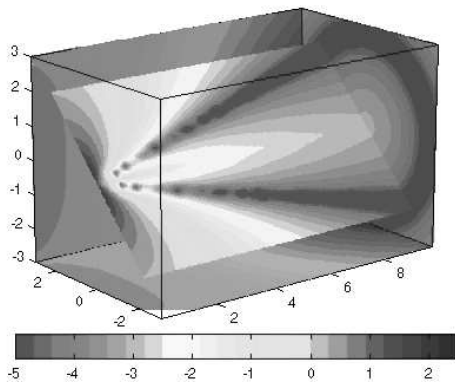
## Visible Male: Lungs



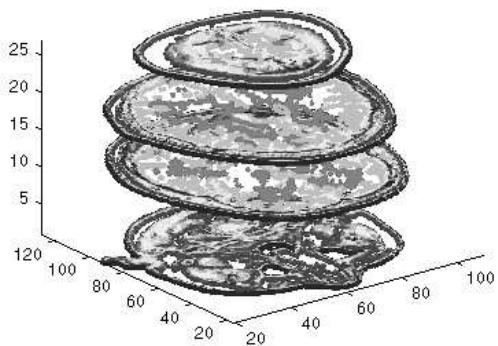
## Visible Female: Skull



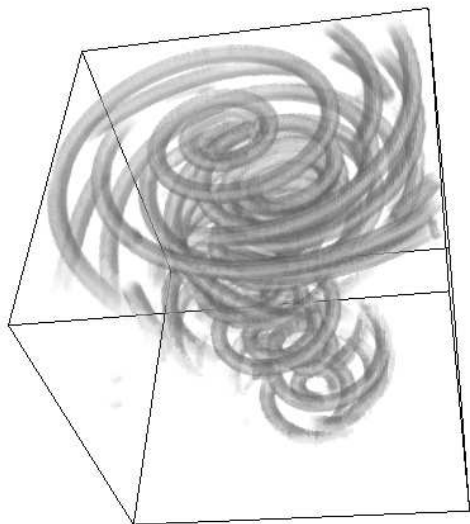
# Data Cutting



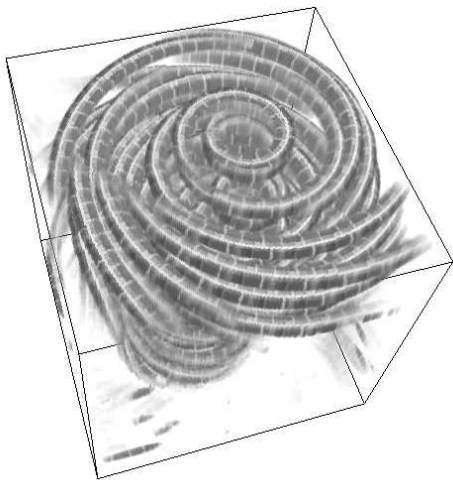
# Data Cutting



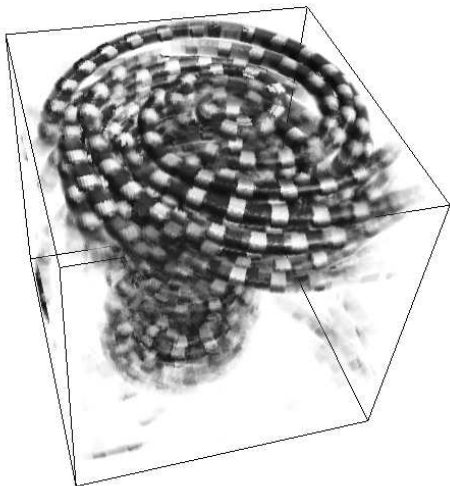
## Particle Tracing: Tornado



# Tornado



# Tornado



# Tensor Visualization

