

## Analyze Training Workshop Overview

*(Typical two and a half day agenda)*

<p><b><u>Day 1</u></b></p>	<p><b>Welcome / Introduction</b></p> <p><b>Overview of Analyze</b></p> <p><b>Image Data Representation, Access and Management</b></p> <ul style="list-style-type: none"> <li>- Coordinate System / Anatomical Orientation / Image File Formats</li> <li>- Loading and Saving Data</li> <li>- DICOM Tool</li> <li>- Import/Export             <ul style="list-style-type: none"> <li>- Volume Tool</li> <li>- Raw Data Tool</li> </ul> </li> </ul> <p><b>2-D Image Generation and Display</b></p> <ul style="list-style-type: none"> <li>- Multiplanar Sections</li> <li>- Oblique Sections</li> <li>- Volume Compare</li> </ul> <p><b>3-D Image Generation and Display</b></p> <ul style="list-style-type: none"> <li>- Volume Render – Render Types, Controls, Tools, Object Maps</li> <li>- Virtual Endoscopy</li> <li>- Surface Render / Surface Extractor</li> </ul> <p><b>“Hands-On” Session (optional)</b></p>
<p><b><u>Day 2</u></b></p>	<p><b>Image Processing</b></p> <ul style="list-style-type: none"> <li>- Image Calculator</li> <li>- Image Algebra</li> <li>- Spatial Filters</li> <li>- Filter Designer</li> <li>- 3D FFT</li> </ul> <p><b>Image Segmentation</b></p> <ul style="list-style-type: none"> <li>- Image Edit</li> <li>- Morphology</li> <li>- Volume Edit</li> </ul>

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	<ul style="list-style-type: none"><li>- Multispectral Classification</li><li>- Object Extractor</li></ul> <p><b>2-D and 3-D Image Registration and Fusion</b></p> <ul style="list-style-type: none"><li>- 2-D Registration</li><li>- 2-D Non-rigid Registration</li><li>- 3-D Surface / 3-D Voxel Registration</li><li>- 3-D Non-rigid Registration</li></ul> <p><b>“Hands-On” Session (optional)</b></p>
<p><b><u>Day 3</u></b> (half day)</p>	<p><b>Image Measurement</b></p> <ul style="list-style-type: none"><li>- Line Profile</li><li>- Region of Interest</li><li>- Stereology</li><li>- Object Counter</li><li>- Tree Analysis</li></ul> <p><b>Specialized Applications</b></p> <ul style="list-style-type: none"><li>- SISCOM</li><li>- Mayo 3D Brain Atlas</li><li>- DTI</li><li>- T2 Projection</li><li>- Volume Metrics</li></ul> <p><b>Workshop wrap-up</b></p>