

The following paragraphs describe the methods that were used on the different version(s) of the ICBM 452 T1 Atlas.

### **ICBM 452 T1 Atlas**

#### **Affine AIR 12 Atlas**

The atlas was created using AIR5.0 and exists in two formats (Analyze/IMG/HDR & MINC). The atlas is based on linear transforms of the subjects into the atlas space using a 12-parameter affine transformation (the air12 atlas). This atlas uses chirp-z interpolation for reslicing the voxel intensities.

#### **Warp 5 Atlas**

The second atlas is based on a 5th order polynomial transformation into the atlas space (the warp5 atlas). This atlas uses a 3D-sinc interpolation with half-windows of 6 voxels in each dimension. It has a more accurate alignment than the linear atlas and shows more detail.

Additional information about this atlas is available at the following resources:

<http://dx.doi.org/10.1006/nimg.1995.1012>

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1088516/>

<http://www.ncbi.nlm.nih.gov/pubmed/11522763>

<http://www.ncbi.nlm.nih.gov/pubmed/17266101>