

CAF dataset for Allen Reference Atlas:

1. Fetch `AtlasAnnotation25.sva` sparse volume file from ABA Website.
2. Coordinates in this volume are expressed in Mouse ABAvoxel 1.0 (`ABAvoxel`, `INCF:0100`) SRS, in which units of measurements are voxels. In order to express coordinates in stereotaxic coordinates (with bregma point defined as origin of the coordinate system), the volume has to be transformed into Mouse ABAreference 1.0 SRS (`ABAreference`, `INCF:0101`).
3. Such transformation is given by the TransfomPOI INCF DAI service (ie. this request).
4. Transformation may be calculated from 4 points in `ABAvoxel` SRS ( $p_1, p_2, p_3, p_4$ ) and 4 corresponding point in `ABAreference` SRS ( $p_1', p_2', p_3', p_4'$ ) by solving following equation: