

One of the elements in the large rotation matrix in the slide “Decomposition of rotation” is wrong.

The correct matrix should be:

$$R = R_z(C) R_y(B) R_x(A) = \begin{bmatrix} c_z c_y & c_z s_y s_x - s_z c_x & s_z s_x + c_z s_y c_x \\ s_z c_y & c_z c_x + s_z s_y s_x & s_z s_y c_x - c_z s_x \\ -s_y & c_y s_x & c_y c_x \end{bmatrix}$$

The element in the first row and last column is shown wrongly in the video as “ $s_z s_x + c_z c_y c_x$ ” but it should be “ $s_z s_x + c_z s_y c_x$ ”.

The correction affects the composition of a rotation matrix from Euler angles, but not the decomposition of the matrix, because that particular element is not being used in the calculations.