

## Import EBSD data from the Oxford camera with the right reference frame

```
% crystal symmetry
CS = {'notIndexed',crystalSymmetry('m-3m', [3.6 3.6 3.6], 'mineral',
'Copper', 'color', [0.53 0.81 0.98])});

% plotting convention
setMTEXpref('xAxisDirection','east');
setMTEXpref('zAxisDirection','intoPlane');

pname = '';

% which files to be imported
fname = [pname '\ma_carto.ctf'];
ebsd = EBSD.load(fname,CS,'interface','ctf',
'convertEuler2SpatialReferenceFrame');
```

Note that the option *convertEuler2SpatialReferenceFrame* is important. With Oxford systems the Euler angles are not expressed in the ebsd map reference frame (there's a 90° rotation). This option converts the euler angle from their reference frame to the map's.

Also note that MTEX knows which transformation to apply based on the imported file extension (.ang for EDAX, .ctf/cpr for Oxford and others...).

More information: <https://mtex-toolbox.github.io/EBSDReferenceFrame.html>

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