

# Susceptibility artifact

The magnetic field distortions created by [susceptibility](#) effects result in variations in precessional frequency across the patient and even within individual voxels. These frequency changes, in turn, produce signal loss from T2\*-dephasing and spatial mismapping of the MR signal. The MR imaging characteristics reflect both of these physical mechanisms: geometric distortion with focal areas of signal void and regions of very bright signal resulting from “piling up” signal assigned to the wrong areas.

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