



Math for the people, by the people.

normal variety

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Let  $X$  be a variety.  $X$  is said to be *normal* at a point  $p \in X$  if the local ring  $\mathcal{O}_p$  is integrally closed.  $X$  is said to be *normal* if it is normal at every point. If  $X$  is non-singular at  $p$ , it is normal at  $p$ , since regular local rings are integrally closed.