groupoid

Canonical name	Groupoid
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Entry type	Definition
Classification	msc 20N02
Synonym	magma
Related topic	Semigroup
Related topic	Group
Related topic	LoopAndQuasigroup

A groupoid G is a set together with a binary operation $\cdot : G \times G \longrightarrow G$.
The groupoid (or "magma") is closed under the operation.

There is also a separate, `http://planetmath.org/GroupoidCategoryTheoretic`category-theoretic definition of "groupoid."