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having cumbersome statements of theorems, we may or may not make an exception for the trivial one-element group in these definitions. We shall denote such a group typically by G .

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Wikipedia, the free encyclopedia In mathematics, the representation theory of semisimple Lie algebras is one of crowning achievements of the theory of Lie algebras and Lie groups.

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the strong links between representation theory and algebraic geometry have many parallels in differential geometry, beginning with Felix Klein's Erlangen program and Élie Cartan's connections, which place groups and symmetry at the heart of geometry.

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This is the approach followed in (Bourbaki 2005), for instance, which classifies representations of split semisimple/reductive Lie algebras. Semisimple and reductive groups. A connected Lie group is called semisimple if its Lie algebra is a semisimple Lie algebra, i.e. a direct sum of simple Lie algebras.

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algebra - Wikipedia

Representation theory of finite groups, Lie algebras and Lie groups, roots, weights, Dynkin diagrams, classification of semisimple Lie algebras and their representations, exceptional groups, examples and applications to geometry and mathematical physics.

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A Lie group whose associated Lie algebra is a semi-simple Lie algebra may be called a semi-simple group and more specifically, a semi-simple Lie group. Connections with algebra The use of semi-simple in the study of algebras, representation theory , and modules is far more precise owing to

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the fact that the
various possible
definitions are
generally equivalent.

semisimple group - PlanetMath

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Every G -representation
is equal to a direct sum
of irreducible
subrepresentations.

Equivalently, a
representation is
indecomposable iff it is
irreducible. In light of
this theorem, we say
that every G -

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groups and complex
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compact semisimple Lie groups, this book starts with Hopf algebras, and ends with the classification of admissible representations.

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and modules over them. The presentation interweaves insights from sp

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There are already many good books on representation theory for all kinds of groups. Two of the best (in this author's opinion) are the one by A.W. Knap: "Representation Theory for Semisimple

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[Kn1] and by G.W.
Mackey: “Induced
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Physics, Probability and
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A basic example of
lattices in semisimple
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groups have extensive
connections to the
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