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interpret them): ( $t' = \gamma t - vx/c^2$ ,  $x' = \gamma(x - vt)$ ) where  $c$  represents the speed of  
light (about 300,000 kilometers per  
second) and  $\gamma = 1/\sqrt{1 - v^2/c^2}$ . The  
special theory of relativity, developed by  
Einstein in 1905, boils down to analyzing  
the consequences of these

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mathematical model that describes the relationship between events in space-time; the basic finding of the theory is that the relationship between events in the same as the relationship between points on a manifold with curvature, and the geometry of that manifold is determined by sources of energy-momentum and their distribution in

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Manifolds Generally speaking,  
a manifold is a space that with curvature

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and complicated topology that locally looks like  $R^n$ . Examples:  $R^n$  itself.  $R$  is a line and  $R^2$  a plane. The  $n$ -sphere,  $S^n$ ; that is, the locus of all points some fixed distance from the origin in  $R^{n+1}$ .  $S^1$  is a circle and  $S^2$  sphere. The  $n$ -torus  $T^n$ .  $T^2$  is the surface of a doughnut. A Riemann surface of genus  $g$ .



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