Supernova  
   
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A supernova (pl.: supernovae) is a powerful and luminous explosion of a star. A supernova occurs  
during the last evolutionary stages of a massive star, or when a white dwarf is triggered into runaway  
nuclear fusion. The original object, called the progenitor, either collapses to a neutron star or black  
hole, or is completely destroyed to form a diffuse nebula. The peak optical luminosity of a supernova  
can be comparable to that of an entire galaxy before fading over several

## Wikipedia Excerpt: Deep learning

In machine learning, deep learning focuses on utilizing multilayered neural networks to perform tasks such as classification, regression, and representation learning. The field takes inspiration from biological neuroscience and is centered around stacking artificial neurons into layers and "training" them to process data. The adjective "deep" refers to the use of multiple layers (ranging from three to several hundred or thousands) in the network. Methods used can be supervised, semi-supervised or unsupervised.  
Some common deep learning network architectures include fully connected networks, deep belief networks, recurrent neural networks, convolutional neural networks, generative adversarial networks, transformers, and neural radiance fields. These architectures have been applied to fields including computer vision, speech recognition, natural language processing, machine translation, bioinformatics, drug design, medical image analysis, climate science, material inspection and board ga