

deep-dream.ml

## Description

**DeepDream** is a [computer vision](#) program created by [Google](#) engineer Alexander Mordvintsev which uses a [convolutional neural network](#) to find and enhance patterns in [images](#) via [algorithmic pareidolia](#), thus creating a [dream](#)-like [hallucinogenic](#) appearance in the deliberately over-processed images.[\[1\]](#)[\[2\]](#)[\[3\]](#)

Google's program popularized the term (deep) "dreaming" to refer to the generation of images that produce desired [activations](#) in a trained [deep network](#), and the term now refers to a collection of related approaches.

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## History

The DeepDream software originated in a deep [convolutional network](#) codenamed "Inception" after the [film of the same name](#),[\[1\]](#)[\[2\]](#)[\[3\]](#) was developed for the [ImageNet Large-Scale Visual Recognition Challenge](#) (ILSVRC) in 2014[\[3\]](#) and released in July 2015.

The dreaming idea and name became popular on the internet in 2015 thanks to Google's DeepDream program. The idea dates from early in the history of neural networks,[\[4\]](#) and similar methods have been used to synthesize visual textures.[\[5\]](#) Related visualization ideas were developed (prior to Google's work) by several research groups.[\[6\]](#)[\[7\]](#)

After Google published their techniques and made their code [open source](#),[\[8\]](#) a number of tools in the form of web services, mobile applications, and desktop software appeared on the market to enable users to transform their own photos.[\[9\]](#)

## Category

1. External Domains

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