



# Types of Machine Learning

# **Supervised Learning**

- labeled data
- learn relationships

Examples:

- spam detection
- image classification

# Unsupervised Learning

- unlabeled data
- find data structure

Examples:

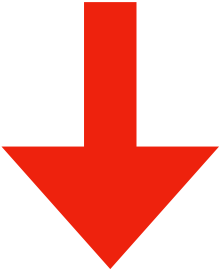
- customer segmentation
- anomaly detection

# Reinforcement Learning

- reward based
- find optimal strategy

Examples:

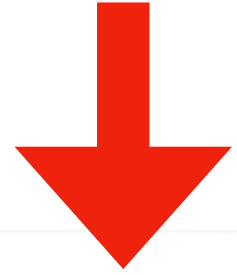
- game playing
- autonomous driving



**We'll focus on this category**

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## **Reinforcement Learning**

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# Google's AI Awakening

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Jun Rekimoto : 暦本純一

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人間とテクノロジーの未来を探求しています。

Nov 11, 2016 · 5 min read



**You seem to have made it into a  
neural network Try the beginning  
with The Great Gatsby Google  
Translate**

ニューラルネット化したらしいGoogle翻訳でThe Great Gatsby冒頭を試してみる：

原文：In my younger and more vulnerable years my father gave me some advice that I've been turning over in my mind ever since.

“Whenever you feel like criticizing any one,” he told me, “just remember that all the people in this world haven't had the advantages that you've had.”

google：私の若くて傷つきやすい年の頃、私の父は私が私の心の中でそれ以来変わってきたアドバイスを私にくれました。

「誰かを批判する気持ちがあるときはいつでも、彼は私に言いました。

「この世界のすべての人々はあなたが持っていた優位性を持っていないことを覚えておいてください。



The New York Times Magazine

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FEATURE

## The Great A.I. Awakening

How Google used artificial intelligence to transform Google Translate, one of its more popular services — and how machine learning is poised to reinvent computing itself.