

THEANO vs SKLEARN

Google Correlate Lab Project

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Idea

- Theano and sklearn are packages in python for deep learning
- Finding the suitable package to develop for deep learning (between theano and sklearn)

Searching

Google Correlate

deep learning



Sea

☐ Exclude terms containing **deep learning**

Compare US states

[Compare weekly time series](#)

[Compare monthly time series](#)

Documentation

[Comic Book](#)

[FAQ](#)

[Tutorial](#)

[Whitepaper](#)

[Correlate Algorithm](#)

Correlate Labs

[Search by Drawing](#)

Correlated with **deep learning**

0.9391 [theano](#)

0.9086 [machine learning](#)

0.9054 [convolutional](#)

0.9001 [python sorted](#)

0.8945 [andrew ng](#)

0.8937 [mutable](#)

0.8928 [python dict](#)

0.8925 [python if else](#)

0.8917 [google python](#)

0.8892 [python unicode](#)

0.8884 [python map](#)

0.8853 [sklearn](#)

0.8839 [pattern matching](#)

0.8812 [allocator](#)

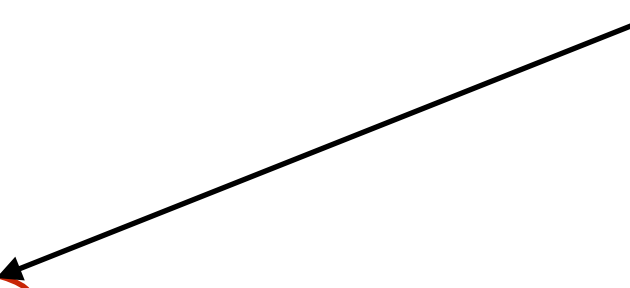
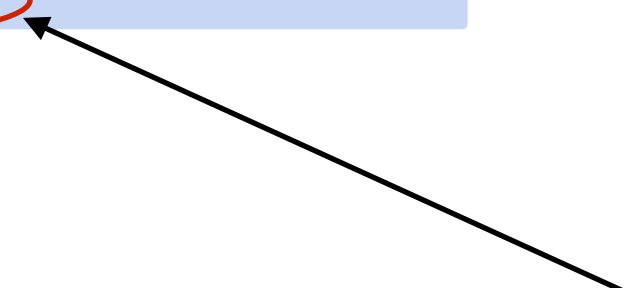
0.8810 [python package](#)

0.8799 [python regular expression](#)

0.8798 [itertools](#)

0.8795 [opencv](#)

Terms under
comparison

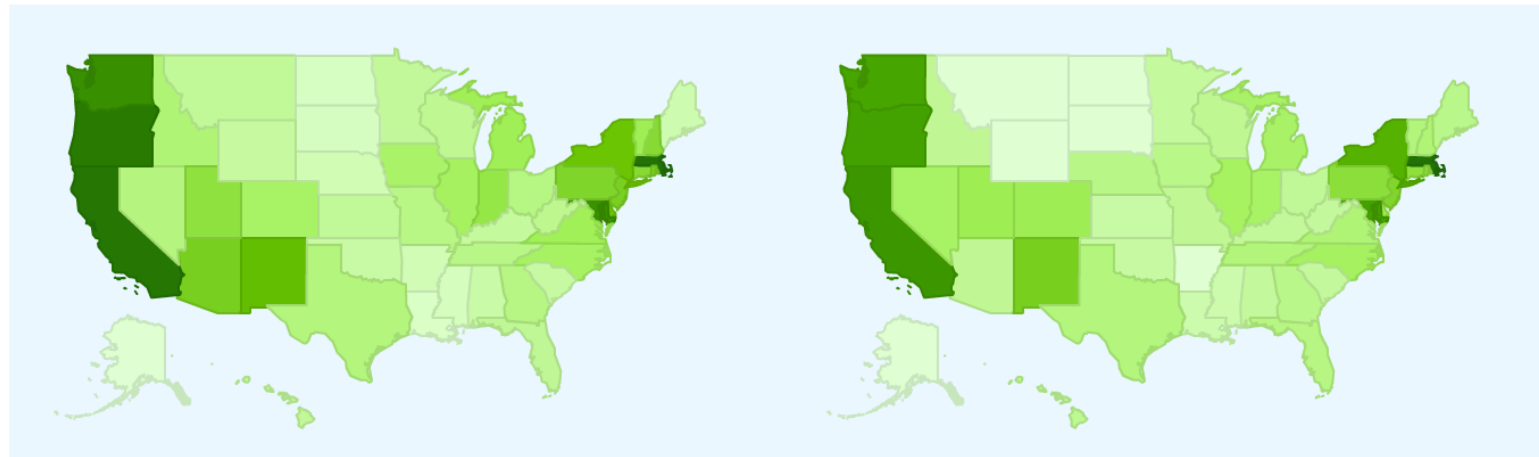


Comparison

- Theano

United States Web Search activity for **deep learning** and **theano** ($r=0.9391$)

 [State maps](#)  [Scatter plot](#)



Massachusetts

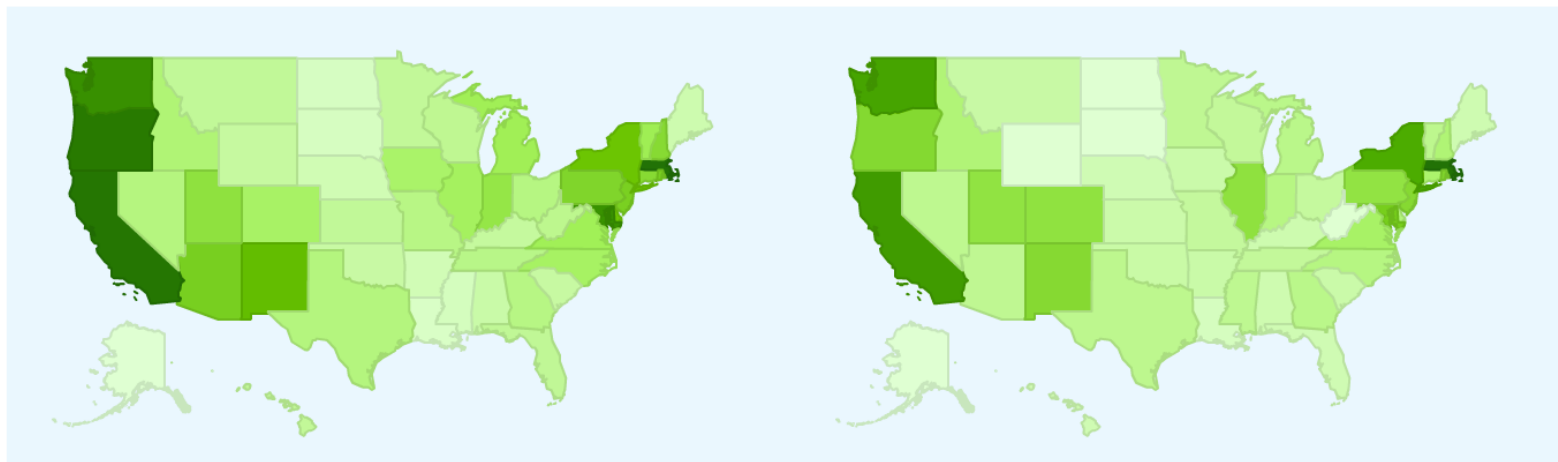
Deep learning - 2.75

Theano - 3.285

- Scikit_learn

United States Web Search activity for **deep learning** and **sklearn** ($r=0.8853$)

 [State maps](#)  [Scatter plot](#)



Massachusetts

Deep learning - 2.75

Sklearn - 3.573

Results

- From the comparison, it is evident that Massachusetts has a higher correlation with both of them, compared to other states.
- So, Massachusetts would be a better place to do the beta test of the new features.
- Of the two packages, both of them have a significant relation with the deep learning. Yet the proportion of the people using it might differ. Hence, distribution of theano is a good idea as it is the preferred package for deep learning.