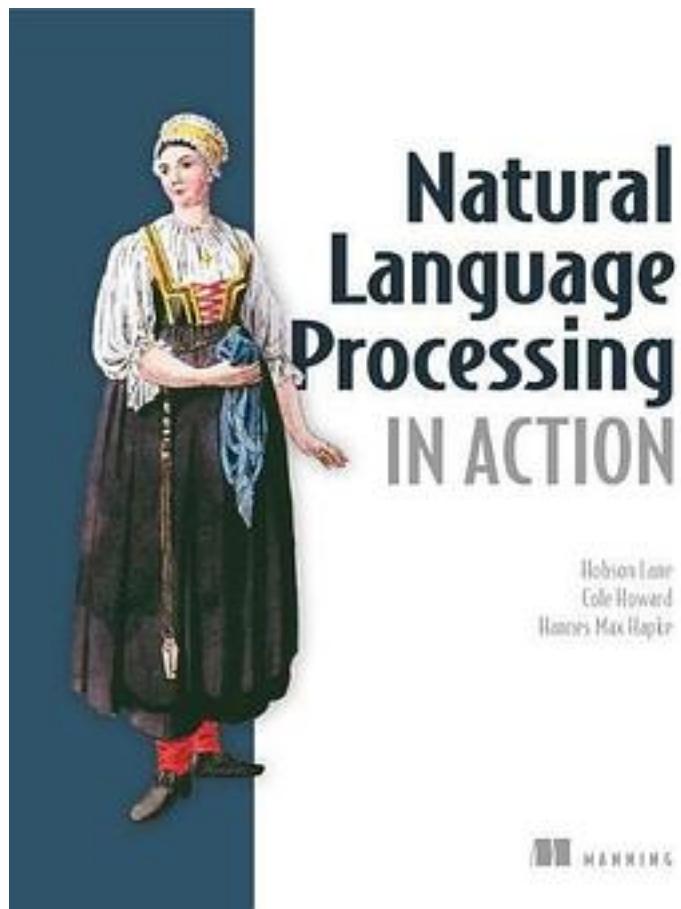


Natural Language Processing in Action



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Natural Language Processing in Action is your guide to building machines that can read and interpret human language. In it, you'll use readily available Python packages to capture the meaning in text and react accordingly. The book expands traditional NLP approaches to include neural networks, modern deep learning algorithms, and

generative techniques as you tackle real-world problems like extracting dates and names, composing text, and answering free-form questions.

What's inside

Some sentences in this book were written by NLP! Can you guess which ones?

Working with Keras, TensorFlow, gensim, and scikit-learn

Rule-based and data-based NLP

Scalable pipelines

作者介绍:

目录: PART 1 - WORDY MACHINES

Packets of thought (NLP overview)

Build your vocabulary (word tokenization)

Math with words (TF-IDF vectors)

Finding meaning in word counts (semantic analysis)

PART 2 - DEEPER LEARNING (NEURAL NETWORKS)

Baby steps with neural networks (perceptrons and backpropagation)

Reasoning with word vectors (Word2vec)

Getting words in order with convolutional neural networks (CNNs)

Loopy (recurrent) neural networks (RNNs)

Improving retention with long short-term memory networks

Sequence-to-sequence models and attention

PART 3 - GETTING REAL (REAL-WORLD NLP CHALLENGES)

Information extraction (named entity extraction and question answering)

Getting chatty (dialog engines)

Scaling up (optimization, parallelization, and batch processing)

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