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Published in NLPlanet



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An organized collection of 94 articles with NLP tips

Language models, transformers, embeddings, chatbots, knowledge graphs, etc.

A collection of NLP tips

Embeddings

Chatbots

Language
Models

Knowledge
Graphs

Explainable
AI

Speech
Recognition

Transformers

Semantic
Search

Hello fellow NLP enthusiasts! This article provides an overview of the topics covered on [NLPlanet](#) since its inception and it's meant to be a resource for learning about interesting NLP topics. At the end, I will give a brief overview of the growth of NLPlanet. Enjoy! 😊

Topics covered on NLPlanet

I've grouped the articles into distinct NLP and artificial intelligence categories. As some articles belong to



95

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- [21 popular NLP libraries of 2022](#)
- [The Basic Concepts and Terms You Need to Know for AI and ML](#)
- [18 High-Quality Resources for studying NLP](#)
- [21 Learning Resources for Text Classification](#)
- [20 Learning Resources for Word Embeddings](#)
- [20 Learning Resources for Transformers](#)
- [20 Learning Resources for Information Retrieval](#)
- [23 Learning Resources for Chatbots](#)
- [18 Learning Resources for Language Models](#)
- [19 Learning Resources for Question Answering](#)

Intro to NLP tasks

- [Quick intro to Text Style Transfer](#)
- [Quick intro to Text Simplification](#)
- [Quick intro to Question Answering](#)
- [Quick Intro to Sentiment Analysis](#)
- [10 Surveys About Popular NLP Areas](#)
- [Quick Intro to Coreference Resolution with NeuralCoref](#)
- [Python Regular Expressions cheatsheet](#)
- [Quick Intro to Knowledge Base Question Answering](#)
- [Four different approaches to Text Summarization](#)
- [How to measure Commonsense Reasoning](#)

Embeddings

- [11 word embeddings models you should know](#)
- [20 Learning Resources for Word Embeddings](#)
- [Doc2Vec in a nutshell](#)
- [Learn TF-IDF with easy examples](#)



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- [Sentence Transformers cheat sheet](#)

Language models

- [A brief timeline of NLP from Bag of Words to the Transformer family](#)
- [Better Language Model Scaling for Downstream Tasks](#)
- [Unified Text-to-Text Tasks with T5](#)
- [A Full Guide to Finetuning T5 for Text2Text and Building a Demo with Streamlit](#)
- [Scaling Laws for Neural Language Models](#)
- [Making Large Language Models reason with Chain of Thought Prompting](#)
- [Scaling Transformers with Sparsity](#)
- [18 Learning Resources for Language Models](#)
- [Gopher Language Model performance in a nutshell](#)
- [The OpenAI WebGPT model that answers questions browsing the web](#)
- [How the DeepMind RETRO model decouples reasoning and memorization](#)
- [Most used Decoding Methods for Language Models](#)
- [OpenAI InstructGPT brings Reward Models to GPT-3](#)
- [BERT finetuning with Hugging Face and training visualizations with TensorBoard](#)
- [Switch Transformers and huge sparse language models](#)
- [Ethical and social risks from Large Language Models](#)
- [Perplexity explained with simple probabilities](#)

Knowledge graphs, entity linking, relation extraction

- [Building a Knowledge Base from Texts: a Full Practical Example](#)
- [Visualize Dependency Parsing and Entities with displaCy](#)
- [A simple taxonomy of Knowledge Graph research](#)
- [Quick Intro to Knowledge Base Question Answering](#)
- [11 applications of Knowledge Graphs](#)
- [Explainable AI with Knowledge Graphs](#)



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Semantic search

- [Semantic Search with Few Lines of Code](#)
- [20 Learning Resources for Information Retrieval](#)
- [Quick tips to make your semantic search projects painless](#)
- [Semantic search of images with CLIP and Unsplash](#)
- [Topic Modeling and Semantic Search with Top2Vec](#)

Metrics and benchmarks

- [Popular NLP Benchmarks \[Part 1\]](#)
- [Keeping track of information and the LAMBADA benchmark](#)
- [Learn the BLEU metric by examples](#)
- [Learn the ROUGE metric by examples](#)
- [Perplexity explained with simple probabilities](#)
- [Intro to Word Error Rate \(WER\) for Speech-to-Text](#)
- [GLUE Tasks and 2022 Leaderboard](#)
- [SuperGLUE Tasks and 2022 Leaderboard](#)

Explainable AI

- [Explainable AI with Knowledge Graphs](#)
- [Explain predictions with SHAP values](#)
- [Explain predictions with LIME](#)
- [Partial Dependence and ICE Plots](#)

Popular NLP libraries

- [21 popular NLP libraries of 2022](#)
- [SpaCy cheat sheet](#)
- [NLTK cheatsheet](#)
- [Quick Introduction to Haystack](#)
- [Keyword and keyphrase extraction with PKE](#)
- [Keyword and keyphrase extraction with KevBERT](#)



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- [Beginner intro to Hugging Face main classes and functions](#)
- [Sentence Transformers cheat sheet](#)

Attention and Transformers

- [Visualizing Seq2seq Models with Attention](#)
- [Visualizing Global vs Local Attention](#)
- [Scaling Transformers with Sparsity](#)
- [20 Learning Resources for Transformers](#)

Chatbots and Intents

- [Building a Personal Assistant from Scratch](#)
- [23 Learning Resources for Chatbots](#)
- [Effective intents identification in short texts with unsupervised learning](#)

Sentiment Analysis

- [Quick Intro to Sentiment Analysis](#)

Paraphrases

- [Building blocks to train a paraphrases generation model effortlessly](#)

Text Classification

- [A Taxonomy of Data Augmentation for Text Classification](#)
- [21 Learning Resources for Text Classification](#)
- [Basic taxonomy of Topic Tagging models and elementary use cases](#)
- [BERT finetuning with Hugging Face and training visualizations with TensorBoard](#)

Streamlit

- [Building a Knowledge Base from Texts: a Full Practical Example](#)
- [A Full Guide to Finetuning T5 for Text2Text and Building a Demo with Streamlit](#)

Topic Modeling

- [Topic Modeling and Semantic Search with Top2Vec](#)

Speech Recognition

- [Building a Personal Assistant from Scratch](#)



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Text to Speech

- [Building a Personal Assistant from Scratch](#)

Grammar

- [Visualize Dependency Parsing and Entities with displaCy](#)
- [Python Regular Expressions cheatsheet](#)

Statistics

- [Are Summary Statistics Enough when Analyzing Data?](#)

Training visualization

- [BERT finetuning with Hugging Face and training visualizations with TensorBoard](#)

Multimodal models

- [What DALL·E Mini Thinks of IT Workers](#)
- [Semantic search of images with CLIP and Unsplash](#)
- [Building a meme creation pipeline with CLIP and GPT-3](#)

Ethics

- [Ethical and social risks from Large Language Models](#)

Regular Expressions

- [Python Regular Expressions cheatsheet](#)

Coreference resolution

- [Quick Intro to Coreference Resolution with NeuralCoref](#)

Grammatical error correction

- [Five Correcting Spelling Errors approaches](#)

Tokenization

- [A Taxonomy of Tokenization Methods](#)

Question Answering

- [Quick intro to Question Answering](#)
- [19 Learning Resources for Question Answering](#)
- [Quick Intro to Knowledge Base Question Answering](#)
- [Quick Introduction to Haystack](#)



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- [keyword and keyphrase extraction with keyBERT](#)

Model optimizations

- [A Model Distillation Survey](#)
- [Leveraging parallelisms to train large neural networks](#)

MLOps

- [A Quick Intro to MLOps](#)
- [Using MLflow for Reproducible Data Science Experiments](#)
- [Training a PyTorch Model on GCP Vertex AI](#)
- [Deploy a PyTorch Model with Flask on GCP Vertex AI](#)

PyTorch

- [Quick Intro to PyTorch with Examples: Tensor Operations](#)

JAX

- [A Quick Intro to JAX with Examples](#)

Graphs

- [Using Word2Vec to learn node embeddings on graphs](#)

Recommender Systems

- [Tips for Recommender Systems with NLP](#)

On writing about NLP

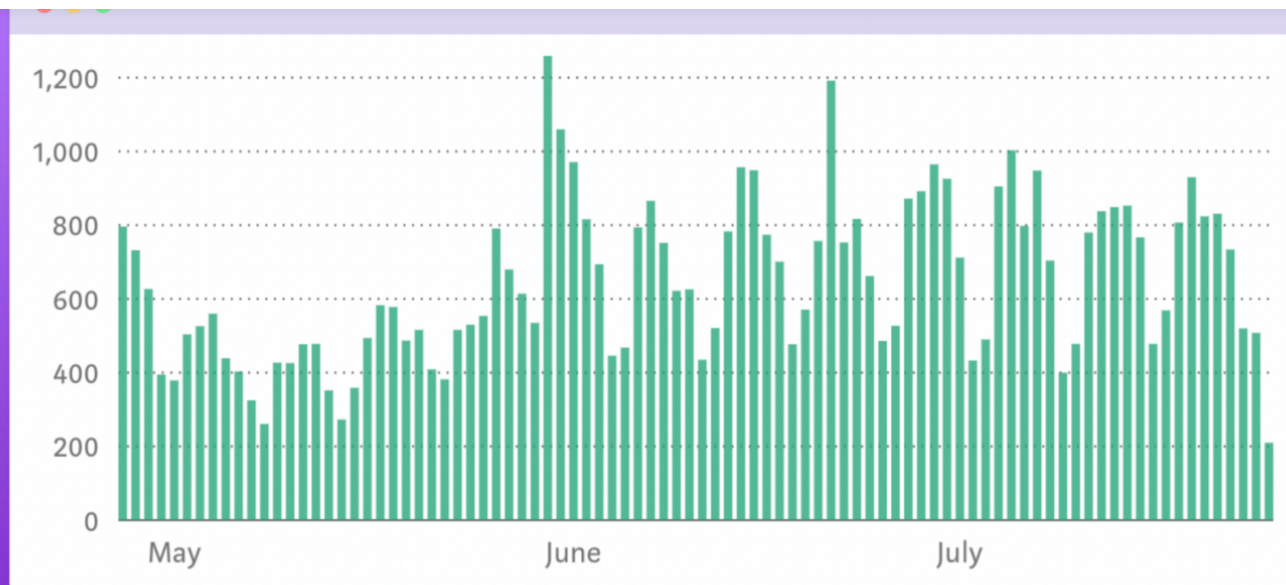
- [A collection of 57 articles with NLP tips](#)
- [A New Discord Server about Natural Language Processing](#)
- [Writing one article a day about NLP for one month](#)

The current state of NLPlanet

NLPlanet started in December 2021 and currently has 617 followers on [Medium](#), 1339 on [LinkedIn](#), 117 on [Twitter](#), and 281 members on its [Discord server](#).

Here is the total number of daily views of the articles published on the Medium publication, which is on a low-but-steady growth.



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Daily views of the articles published on the NLPlanet Medium publication.

We're organizing some informal online meetups on the Discord server where members of the community give brief presentations about NLP topics and get to know each other. Up to now, we talked about topic modeling, speech recognition, speech analysis, and audio.

What's next

You can expect NLPlanet to continue publishing articles that spread knowledge about NLP, at a rate between one to three articles per week.

If you're interested in connecting with people in the same field worldwide, join the [Discord server](#)! 😊

