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# Week 1

Natural Language Processing with Classification and Vector Spaces

## Week 1

Discuss this week's modules here.  
377 threads · Last post a day ago

Go to forum

## Sentiment Analysis with Logistic Regression



Learn to extract features from text into numerical vectors, then build a binary classifier for tweets using a logistic regression!

### Key Concepts

- Sentiment analysis
- Logistic regression
- Data pre-processing
- Calculating word frequencies
- Feature extraction
- Vocabulary creation
- Supervised learning

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## Lecture: Logistic Regression

▶ **Video:** Welcome to the NLP Specialization 4 min

Resume

📖 **Reading:** Connect with your mentors and fellow learners on Slack! 10 min

▶ **Video:** Welcome to Course 1 1 min

📖 **Reading:** Acknowledgement - Ken Church 10 min

▶ **Video:** Supervised ML & Sentiment Analysis 2 min

▶ **Video:** Vocabulary & Feature Extraction 2 min

▶ **Video:** Negative and Positive Frequencies 2 min

▶ **Video:** Feature Extraction with Frequencies 2 min

▶ **Video:** Preprocessing 3 min

📁 **Lab:** Natural Language preprocessing 1h

▶ **Video:** Putting it All Together 2 min

📁 **Lab:** Visualizing word frequencies 1h

▶ **Video:** Logistic Regression Overview 3 min

▶ **Video:** Logistic Regression: Training 1 min

📁 **Lab:** Visualizing tweets and Logistic Regression models 1h

▶ **Video:** Logistic Regression: Testing 4 min

▶ **Video:** Logistic Regression: Cost Function 5 min

## Assignment: Sentiment Analysis with Logistic Regression

📝 **Programming Assignment:** Assignment: Logistic Regression 3h Due Sep 28, 1:59 AM CDT

📖 **Reading:** How to refresh your workspace 10 min

