

# Course Chapters

- Introduction

- The Motivation for Hadoop
- Hadoop Basic Concepts and HDFS
- Introduction to MapReduce
- Hadoop Clusters and the Hadoop Ecosystem

- **Writing a MapReduce Program in Java**
- Writing a MapReduce Program Using Streaming
- Unit Testing MapReduce Programs

- Delving Deeper into the Hadoop API
- Practical Development Tips and Techniques
- Reducers and Partitioners
- Data Input and Output

- Common MapReduce Algorithms
- Joining Data Sets in MapReduce Jobs

- Integrating Hadoop into the Enterprise Workflow
- An Introduction to Hive, Impala, and Pig
- An Introduction to Oozie

- Conclusion
- Appendix: Cloudera Enterprise

Course Introduction

Introduction to Apache Hadoop  
and its Ecosystem

**Writing Basic  
MapReduce Programs**

Programming with  
the Hadoop Core API

Problem Solving with MapReduce

The Hadoop Ecosystem

Course Conclusion and Appendices