# Data Recipes

# Dean Hunter Msc Big Data



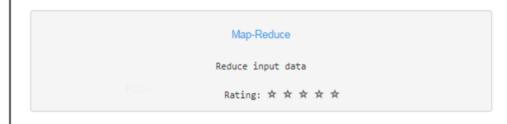
#### Problem & Aim

Most code sharing sites have no focus on particular topics, making navigation for a particular type of sample difficult. Big Data technologies also lack in example code.

This project aims to deliver a code sharing website specifically for Big Data samples, focusing on delivering an intuitive design to quickly navigate and locate relevant samples and content.

The site offers a number of unique features to provide users with an intuitive way to navigate all relevant examples.

#### Latest uploads



The latest section allows users to navigate all recently uploaded samples and rate each sample based on its value.

Each sample contains content dynamically generated by the back-end, allowing users to find samples that share key features. This directs users to relevant examples that may be more helpful than their current search.

# Front-End



# Simple and Intuitive

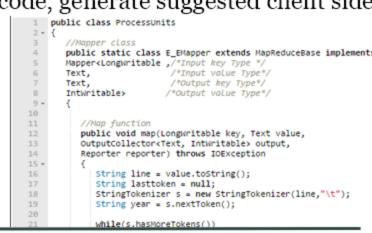
The Data recipes site uses a modified version of Twitter-Bootstrap to provide a robust, responsive and stable user experience.



#### Code Editor

Upload a file or use the ACEJS code editor to paste your code, generate suggested client side

tags and search for similar samples.



#### **Suggested Samples**

Unlike other code sharing sites, Data recipes will recommend other samples based on analytics to help solve users' Big Data questions, reducing time spent manually searching.

Similar:

Hadoop Redu

core.reducer

# Back-End

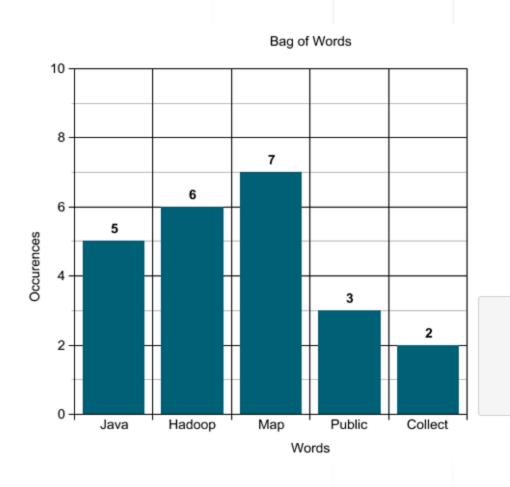


# Suggest and Vote

Each sample uploaded is processed by both the Front-end and Back-end, ensuring enough data is collected to provide a fluid and relevant navigation experience.

#### Bag of Words

Both Front-end and Back-end utilize a bag of words model to provide realtime suggestions to end users both in tagging and uploaded project descriptions to ensure results are as accurate as possible.



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# Tagging

Each submission is tagged either manually or automatically by the back-end after parsing the uploaded content.

## Rating

Rate other submitted samples using a score based system to promote the sharing of useful and relevant samples and aid navigation through the site.

Java
Hadoop
Run
Map
Reduce

Recommended Tags

Map-Reduce

Reduce input data

File:reducer.cpp Rating: ★ ★ ★ ★

### MongoDB

Each sample uploaded is stored in MongoDB as a document in a collection. MongoDB provides a robust schema-less document model and deep query-ability using a JSON like format. This provides Data recipes with scalability and dynamic searching capabilities.

- system.profile

















