# Prerequisites

Maven needs to be available on the command line

Java needs to be available

# Set up a home directory

Create a home directory for the search engine. This needs to be a folder with a sub directory called ‘etc’ that contains an engine.properties file and a stopword-list.txt. Samples for both are provided in the repository root. Edit the engine.properties file to suit.

# Building the package

From the command line run

Mvn package

After the build change dire into the target folder

# Running

Change into the target directory

Cd target

## Indexing

Type the following to run indexing

Java -jar irdm-project-0.0.1-SNAPSHOT-jar-with-dependencies.jar “path to home folder” i

## Running a single query

Type the following to run a single query after the index has been built

Java -jar irdm-project-0.0.1-SNAPSHOT-jar-with-dependencies.jar “path to home folder” q MODEL\_NAME “query terms”

MODEL\_NAME can be one of TF\_IDF, BM25 or DrichtletLM

## Running a batch of queries

Type the following to run a batch of queries

Java -jar irdm-project-0.0.1-SNAPSHOT-jar-with-dependencies.jar “path to home folder” bq MODEL\_NAME "query file path" "result path"

MODEL\_NAME can be one of TF\_IDF, BM25 or DrichtletLM

Query file path needs to be a csv file with two columns. The first a query id and the second a query.