HW3 Little Research Report

repository (https://gitlab.com/krikun/ir-qq)

0 Structure

build with sbt

```
# git clone ssh or https ..

cd project
sbt
...
> run
```

1 Doc set

placed in project/docs/ directory

de ald		
docId	terms	tokens
docs/arrays	502	1948
docs/mutable-and-immutable-collections	362	1048
docs/collection-sets	453	1854
docs/collections-trait-traversable	434	1633
docs/collections-trait-iterable	278	713
docs/maps	447	1810
docs/scala-for-java-programmers	962	4983
docs/classes	227	430
docs/sets	453	1854

1.1 Total tokens

tokens : 16273 terms : 1709

 $tokens\ split\ by\ Punct\ and\ normalized\ to\ terms\ just\ by\ lowercase$

```
val raw = io.Source.fromFile(file).mkString
// tokenization
val tokens = raw.split("[\\p{Punct}\\s]+")
val words = tokens.map(word => word.toLowerCase())
val roughly = words.toSet
```

1.2 Stop words

First 9 by occurrence:

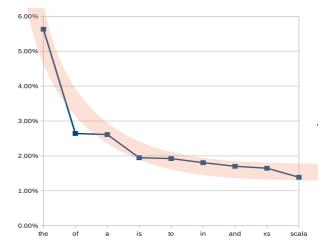
the of a is to in and xs scala 916 430 425 317 313 294 277 268 226

Total: 3466 out of 16273 tokens

As we can see, this is logarithmic distribution. **xs** and **scala** appears because of test doc set:

src (http://docs.scala-lang.org/tutorials/)

or, if you wanna, by percentage to tokens:



2 Boolean search

Query: define

200th most frequent occurrence : 15 5 of 9 documents

Result docId:

docs/arrays
docs/mutable-and-immutable-collections
docs/collections-trait-traversable
docs/maps
docs/scala-for-java-programmers