## Instructions

## **Prerequisites**

Apache-Hadoop Gradle

## Steps

- Open the folder path in Terminal/CMD
- \$ gradle clean build

```
Songmengs-MBP:hip meng$ gradle clean build

> Task :compileJava

BUILD SUCCESSFUL in 2s
```

 \$ gradle build (build jar file for Hadoop)

Songmengs-MBP:hip meng\$ gradle build

BUTLD SUCCESSFUL in 937ms

 \$ hadoop fs -copyFromLocal input/ (upload input: copy input images to hadoop user/input/)

Songmengs-MBP:hip meng\$ hadoop fs -copyFromLocal input/
2021-05-03 12:28:12,242 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-jaya classes where applicable

\$ hadoop jar my-jar/ImageProcessing.jar search/filter inputDir outputDir1 outputDir2

Songmengs-MBP:hip meng\$ hadoop jar my-jar/ImageProcessing.jar search input /usr/local/Celler/hadoop/hip/output1 /usr/local/Celler/hadoop/hip/output2 2021-05-03 12:37:55,197 WARN util.NativeCodeLoader: Unable to load native-hadoop

(Argument after the jar files: <search/filter> choose the type of image processing

<inputDir> where you upload input images

<outputDir1> a path for output 1
<outputDir2> a path for output 2

! Note ! two output path can't be the same

! Note ! output folder need to be empty

\$hadoop fs -cat /output/part-r-00000
 Check the output file part-r-00000
 /output is your customized output path

321620523554\_.pic.jpg
16126618213943649116581815025053939329398283525910373161150508076649152661157349
242084896410200261
341620523566\_.pic.jpg
34653763431405836162923647675777813546314632167538789362217147917314483649712583
85253366548429158
331620523556\_.pic.jpg
23584151068002504673293164816453569724023434694693899641497205143446035072115359
9164849523880262718
351620523578\_.pic.jpg
96031802369960810547616605010682539701348264145373901587026440899891805471355008
93127116064604
351620523578\_.pic\_thumb.jpg
27143458316875487598322071023590049036384657398326030671078447033192029157046544
098017228717020992312

\$hadoop fs -get /output/part-r-00000 out.txt
 Get the output text (out.txt)
 /output is your customized output path

Songmengs-MBP:hip meng\$ hadoop fs -cat /usr/local/Cerller/hadoop/hip/output1/par t-r-00000

## If you want to insert your own image processing....

Simply replace the /src/main/java/hip/search/CustomSearch.java code if it's search based. replace the /src/main/java/hip/filter/CustomFilter.java code if it's a filter. Then repeat the step as above.