

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help HistogramEqualization - Apache NetBeans IDE 13 Search (Ctrl+I)

Projects Files Services

- Convolution
- DIPBasic_IOforClass
- HistogramEqualization
 - Source Packages
 - histogramequalization
 - HistogramEqualization.java
 - HistogramEqualize.java
 - ImageIo.java
 - Test Packages
 - Libraries
 - Test Libraries
 - ImageStatistics
 - RGBColorModel
 - Thresholding22

main - Navigator

Members

- HistogramEqualization
 - HistogramEqualization()
 - main(String[] args)

Source History

```
23 // 2- Convert to Gray (3-channels go to one)
24 BufferedImage grayImage = ImageIo.toGray(inImage);
25
26 //3 Extract 2-d byte arrays
27 //Get 1 array
28 byte[][] byteData = ImageIo.getGrayByteImageArray2DFromBufferedImage(grayImage);
29
30 // processing
31 HistogramEqualize thobject = new HistogramEqualize();
32 int[] orgHistogram = thobject.getHistogram(byteData);
33
34 System.out.println("Original Histogram:");
35 for (int i = 0; i < orgHistogram.length; i++) {
36     System.out.println(i + "\t" + orgHistogram[i]);
37 }
38
39
40 byte[][] equalizedData = thobject.equalize(byteData);
41 int[] newHistogram = thobject.getHistogram(equalizedData);
42
43 System.out.println("New Histogram:");
44 for (int i = 0; i < newHistogram.length; i++) {
45     System.out.println(i + "\t" + newHistogram[i]);
46 }
47
48 //5- Put back in a buffered image
49 BufferedImage outImage = ImageIo.setGrayByteImageArray2DToBufferedImage(equalizedData);
50
51 //6- Write out as a file
52 ImageIo.writeImage(grayImage, "jpg", "backyard-gray.jpg");
53 ImageIo.writeImage(outImage, "jpg", "backyard-gray-equalized.jpg");
54 }
```

histogramequalization.HistogramEqualization main

Output - HistogramEqualization (run)

```
247 1102
248 995
249 891
250 1035
251 938
252 1162
253 1139
254 1014
255 533
BUILD SUCCESSFUL (total time: 0 seconds)
```

47:9 INS Windows (CRLF)