

The main work of median cut is in the method `FindRepresentativeColors()`, which iteratively partitions the color space into increasingly smaller boxes. It returns a set of representative colors (Cr) that are subsequently used by procedure `QuantizeImage()` to quantize the original image I.

Median-Cut Users Manual

First, compile the java file with the command

```
$ javac MedianCut.java
```

Then run the code for the test image or any other .png image

```
$ java MedianCut test1.png output.png
```

You will get an output image with 64 colors.

If you want other max colors, you can run by

```
$ java MedianCut test1.png output.png (number)
```

For example,

```
$ java MedianCut test1.png output.png 16
```

You will get an output image with 16 colors.