

```
int bin_w = cvRound( (double) hist_w/histSize );
      Mat histImage( hist_h, hist_w, CV_8UC3, Scalar( 0,0,0) );
59
60
61
       /// Normalize the result to [ 0, histImage.rows ]
62
      normalize(b_hist, b_hist, 0, histImage.rows, NORM_MINMAX, -1, Mat() );
63
      normalize(g_hist, g_hist, 0, histImage.rows, NORM_MINMAX, -1, Mat() );
      normalize(r_hist, r_hist, 0, histImage.rows, NORM_MINMAX, -1, Mat() );
64
65
66
       /// Draw for each channel
      for( int i = 1; i < histSize; i++ )</pre>
67
68
69
           line( histImage, Point( bin_w*(i-1), hist_h - cvRound(b_hist.at<float>(i-1)) ) ,
70
                            Point( bin_w*(i), hist_h - cvRound(b_hist.at<float>(i)) ),
                            Scalar( 255, 0, 0), 2, 8, 0 );
           line(\ histImage,\ Point(\ bin\_w^*(i-1),\ hist\_h\ -\ cvRound(g\_hist.at<float>(i-1))\ )\ ,
                            Point( bin_w*(i), hist_h - cvRound(g_hist.at<float>(i)) ),
74
                            Scalar( 0, 255, 0), 2, 8, 0 );
           line( histImage, Point( bin_w*(i-1), hist_h - cvRound(r_hist.at<float>(i-1)) ) ,
76
                            Point( bin_w*(i), hist_h - cvRound(r_hist.at<float>(i)) ),
                            Scalar( 0, 0, 255), 2, 8, 0 );
78
      }
79
80
      /// Display
81
      namedWindow("calcHist Demo", WINDOW_AUTOSIZE );
82
       imshow("calcHist Demo", histImage );
83
84
      waitKey(0);
85
86
      return 0;
87
    }
```

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