```
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                 6: */
                 7:
                 8:
               9:
            10: #pragma once
            11: #include <stdint.h>
            12: #include <cstdlib>
            13:
            14: using namespace std;
            15:
            16: // Data from beans.ppm
            17:
            18: const uint32_t actualHistBean[256] = {0,0,58,365,639,876,1196,1270,1373,1754,1665,1630,1802,1717,1921,1754
 , 1699, 1844, 1721, 1668, 1639, 1587, 1611, 1520, 1508, 1483, 1497, 1473, 1395, 1367, 1398, 1310, 1282, 1223, 1258, 1306, 1289, 1293, 1278, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 1293, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 12933, 
5,1231,1297,1233,1299,1280,1276,1318,1325,1306,1352,1392,1348,1324,1385,1426,1415,1427,1403,1418,1412,1573,1454,14
48, 1463, 1566, 1491, 1470, 1517, 1537, 1484, 1487, 1492, 1485, 1507, 1504, 1516, 1490, 1470, 1486, 1504, 1490, 1482, 1478, 1498, 1423, 1486, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 1491, 
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1371, 1442, 1373, 1390, 1363, 1412, 1382, 1358, 1371, 1383, 1294, 1423, 1381, 1417, 1345, 1308, 1386, 1315, 1378, 1352, 1377, 1315, 1323, 1386, 1315, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318, 1318
 , 1379, 1409, 1306, 1324, 1331, 1360, 1320, 1318, 1282, 1269, 1317, 1285, 1307, 1311, 1347, 1354, 1339, 1320, 1341, 1304, 1280, 1341, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 1282, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12822, 12
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91, 1147, 1065, 1140, 1103, 1027, 1131, 1080, 1107, 1064, 1029, 1026, 1038, 988, 992, 1043, 979, 988, 972, 1012, 919, 959, 966, 909, 872, 910, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040, 1040,
,291,207,208,187,151,147,121,106,74,75,60,63,36,26,27,19,18,15,23,15,13,10,9,3,0,0,0};
            19: const float actualMeanBean = 104.263387784091;
             20: const uchar actualminBean = 2;
             21: const uchar actualMaxBean = 252;
             22: const float actualStdBean = 61.106823;
             23: const uint32_t actualSumBean = 29360570;
            25: const uint32_t actualHistBeanMask[256] = {0,0,30,156,238,363,484,509,534,695,651,653,745,708,741,676,611,64
4,648,600,596,590,588,526,559,528,531,556,486,494,524,476,454,475,469,491,455,467,454,457,495,444,463,486,490,521,
490,500,522,554,514,531,528,555,571,533,535,550,522,608,582,596,537,616,577,577,611,599,544,570,592,560,560,565,58
9,575,522,562,591,575,587,561,578,547,539,587,569,582,569,523,541,626,538,597,521,542,557,516,523,505,525,531,528,
560,531,539,539,522,537,510,508,525,530,523,511,504,527,495,503,507,539,511,495,507,502,505,506,545,482,553,525,55
0,502,511,537,524,491,507,531,461,510,493,507,506,486,477,528,505,533,492,444,486,520,498,468,462,488,491,493,484,
481,434,477,449,433,460,429,483,430,462,455,465,442,410,435,440,420,407,487,423,407,431,393,448,424,378,397,392,41
8,394,408,391,394,376,365,354,354,366,381,347,352,344,312,308,329,312,291,288,299,262,292,255,267,229,276,268,240,
261, 230, 253, 216, 223, 201, 175, 171, 171, 127, 122, 137, 102, 86, 94, 65, 63, 57, 59, 41, 37, 34, 24, 25, 14, 12, 12, 11, 8, 5, 15, 8, 10, 8, 5, 0
 ,0,0,0};
            26: const float acutalMeanBeanMask = 105.113610746688;
             27: const uint32_t actualSumBeanMask = 11377287;
             28: const uchar actualminBeanMask = 2;
             29: const uchar actualMaxBeanMask = 251;
             30: const float actualStdBeanMask = 61.4932556;
             31:
            32:
```

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           * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
      7:
      8:
      9:
    10: #include <stdint.h>
    11: #include <cstdlib>
    12:
    13: using namespace std;
    14:
    15: const double meanTestResult = 127.445198;
    16: const uint8 t mediaanTestResult = 128;
    17: const double stdTestResult = 73.5821;
    18: const uint32_t nTestResult = 40000;
    19: const uint8_t modeTestResult = 173;
     20: const uint8_t rangeTestResult = 255;
    21: const uint32_t sumTestResult = 5097808;
    22: const uint8_t minTestResult = 0;
     23: const uint8_t maxTestResult = 255;
     25: const uint8_t histTestResult[256] =
    26: { 89, 139, 157, 150, 165, 149, 146, 166, 147, 164, 144, 128, 153, 162, 182, 164, 160, 167, 142, 171, 148, 1
58, 173, 181, 170, 154, 156, 161, 167, 138, 154, 148, 162, 167, 172, 148, 146, 169, 149, 183, 150, 166, 179, 143,
148, 141, 148, 140, 171, 153, 155, 150, 152, 162, 140, 167, 167, 131, 163, 163, 153, 161, 157, 163, 149, 149, 174,
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56, 174, 143, 156, 176, 150, 158, 165, 164, 135, 166, 158, 151, 132, 169, 162, 147, 169, 154, 159, 172, 159, 169,
151, 155, 172, 166, 147, 155, 154, 149, 167, 160, 161, 170, 175, 168, 160, 185, 167, 166, 134, 165, 140, 166, 141,
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, 167, 151, 152, 163, 151, 133, 138, 147, 174, 151, 150, 155, 149, 158, 159, 171, 163, 164, 144, 145, 164, 149, 17
5, 157, 169, 163, 155, 164, 169, 177, 142, 158, 145, 160, 163, 162, 151, 162, 172, 148, 172, 162, 140, 135, 168, 1
43, 134, 156, 155, 148, 148, 86 };
     27:
     28: const uint8_t testMatrix[200][200] =
 29: { { 208, 164, 108, 217, 174, 161, 128, 128, 171, 51, 190, 14, 208, 13, 124, 97, 63, 183, 234, 161, 109, 32, 190, 75, 114, 43, 112, 77, 191, 155, 59, 139, 126, 85, 166, 197, 230, 85, 5, 86, 173, 4, 171, 159, 240, 225, 24,
106, 215, 168, 39, 163, 152, 211, 208, 105, 34, 213, 242, 205, 148, 31, 71, 110, 161, 60, 161, 24, 163, 56, 87, 24
8, 227, 190, 168, 73, 140, 158, 217, 230, 248, 89, 166, 47, 21, 10, 230, 29, 60, 222, 189, 186, 33, 53, 122, 154,
87, 81, 254, 83, 111, 106, 178, 243, 177, 94, 48, 85, 42, 33, 26, 144, 2, 37, 80, 98, 102, 193, 215, 62, 166, 234,
212, 41, 41, 167, 64, 178, 80, 146, 107, 194, 143, 187, 135, 172, 187, 37, 2, 105, 249, 206, 67, 53, 39, 48, 17, 200, 54, 183, 210, 51, 72, 144, 212, 74, 107, 238, 95, 56, 172, 248, 136, 143, 59, 87, 91, 128, 5, 56, 19, 177, 22
0, 6, 136, 127, 119, 177, 187, 138, 29, 96, 75, 151, 214, 248, 78, 224, 96, 43, 179, 122, 178, 184, 214, 66, 48, 2
41, 86, 13
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    30: { 231, 97, 24, 143, 34, 91, 125, 156, 110, 50, 228, 208, 48, 139, 127, 81, 99, 34, 154, 251, 244, 93, 214,
7, 166, 190, 82, 155, 124, 197, 189, 140, 155, 52, 37, 175, 101, 252, 186, 110, 124, 174, 15, 232, 217, 131, 51, 0, 58, 30, 245, 179, 136, 154, 180, 4, 194, 98, 3, 205, 18, 251, 92, 86, 131, 250, 37, 112, 78, 200, 228, 36, 80,
75, 45, 237, 199, 111, 180, 133, 148, 69, 156, 126, 214, 211, 18, 187, 70, 225, 68, 138, 125, 20, 236, 55, 214, 20
7, 46, 191, 0, 69, 58, 120, 75, 216, 27, 150, 203, 139, 82, 139, 118, 112, 147, 40, 13, 21, 173, 43, 228, 90, 236,
59, 235, 170, 153, 134, 105, 134, 168, 23, 222, 192, 68, 75, 172, 214, 93, 138, 21, 203, 94, 98, 59, 173, 130, 182, 110, 161, 23, 0, 187, 162, 80, 121, 169, 6, 254, 124, 98, 165, 101, 121, 238, 168, 177, 194, 111, 208, 195, 127, 25, 191, 10, 98, 234, 220, 194, 158, 175, 252, 12, 173, 204, 80, 83, 245, 85, 169, 201, 188, 91, 152, 99, 240, 1
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    31: { 32, 207, 153, 237, 184, 254, 224, 209, 177, 83, 62, 135, 32, 241, 239, 251, 110, 114, 179, 162, 185,
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                                      * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
                     7:
                     8:
                    9:
                10: #include <stdint.h>
                11: #include <cstdlib>
                12:
                13: using namespace std;
                14:
                15: const double fmeanTestResult = 0.00739355106;
                16: const float fmediaanTestResult = 0.0172;
                17: const double fstdTestResult = 0.9935;
                18: const uint32_t fnTestResult = 2500;
                19: const float fmodeTestResult = -3.2320;
                 20: const float frangeTestResult = 6.8104;
                21: const float fsumTestResult = 18.4839;
                22: const float fminTestResult = -3.2320;
                23: const float fmaxTestResult = 3.5784;
                25: const uint32_t fhistTestResult[256] =
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- 37: { 3.57839693972576, -0.225584402271252, 1.71188778298155, -0.224771056052584, -0.162337672803828, 2.2294456 8045690, 0.826069998469923, 0.113596996734002, 1.26155071814115, -0.993019006549601, -1.16666503019464, 0.17657779 4642316, 0.149808732632761, -0.226950464706233, -1.53269301392951, -1.38521980111084, -0.599272040041946, 0.942376 933302384, -0.191668280046305, 1.52607796250707, -0.423428837836487, -0.899868519999532, -1.26563642223797, 0.3953 16122368463, 0.160227276748647, 0.0362226680441225, 1.20325198868524, 0.991440438825251, 0.404324826134680, -0.327 344521688306, -0.796384050833210, -1.32855255183639, 0.412113496148595, 0.974988055068974, 1.10719924542420, -0.23 3953540330954, 0.959473500735373, 0.643018393161373, 0.105586399266945, 0.00755762356315009, -0.686773118719217, 0.511735412760480, -0.729305831865504, 0.865514396302755, -1.22646737376364, 0.760979810218383, 0.101129606013110, -1.11259905275320, -1.45654658794687, -0.813314487744495 },
- $38: \left\{ \begin{array}{llll} 2.76943702988488 & 1.11735613881447 & -0.194123535758265 & -0.589029030720801 & -0.146054634331526 & 0.3375637 \\ 0.0613106 & 0.536157079925919 & -0.904726212798032 & 0.475424811707271 & 0.974950224811312 & -1.85429908268969 & 0.970737 \\ 823554689 & 1.40493344567698 & -1.14891228961879 & -1.09786776954067 & -1.95675395423192 & -0.589588991418034 & 0.093725 \\ 4906669184 & -0.865815207739937 & 0.168507500217456 & 0.361587164848056 & 0.634745461257071 & -0.149331353183561 & -0.87 \\ 0.562842057010 & 0.287400320243155 & -0.364631168089117 & 0.522017729698728 & 1.07714011343418 & -0.793852875281775 & 0.4 \\ 75517983984108 & 0.725337571127988 & -0.319885618861164 & -0.937149595361607 & 0.289718984218535 & -0.185590108437143 & -1.04673406988337 & -0.340930438594071 & -0.0127600440560323 & 1.12835040662740 & -0.937585768802114 & 0.47168286344277 \\ 3 & 0.257774911374408 & -0.864574687578243 & -0.415696466595698 & 0.792950363598215 & 0.254429502250390 & 1.083982536864 \\ 58 & 0.956939568099376 & 1.32183450188479 & 0.793402558851875 \\ \end{array} \right\},$
- $39: \left\{ \begin{array}{llll} -1.34988694015652, & -1.08906429505224, & -2.13835526943994, & -0.293753597735416, & -0.532011376808821, & 1.00006081958912, & 0.897888425985076, & -0.467714582451856, & 1.17411675149372, & -0.640709506726058, & -1.14068114466963, & -0.413972274974230, & 1.03412153956971, & 2.02433259954387, & -1.41577332156794, & 0.420683700201250, & 0.853540834064481, & -1.12231172152804, & 0.180664133586186, & -0.301206529323699, & -0.351889241946106, & 0.0674535908285647, & -1.63644667825389, & -0.497688378204225, & 0.632905577041240, & 1.77101956701827, & 0.397046092297073, & 0.776841798206994, & 0.859783195732961, & -0.13004891142355, & 1.68654447698160, & 0.825430464554896, & 0.835157036407438, & 1.16540825109215, & -1.12141781251190, & 1.58331887778704, & -0.173318330984157, & 0.914259725009371, & 0.742478041095634, & -0.681559682509183, & 0.288342465455934, & 1.96244739500166, & -0.0949209914065763, & -1.11493810592624, & -2.10994043184427, & -0.152833676937382, & -1.85452723738297, & -1.36305158893729, & 0.487203937551093, & -0.381945253951334 \\ \end{array}, \right\},$
- $40: \left\{\begin{array}{llll} 3.03492346633185, & 0.0325574641649735, & -0.839588747336614, & -0.847926243637934, & 1.68210359466318, & -1.66416447498706, & -0.131937867924581, & -0.124889947223107, & 0.126947068043646, & 1.80886262051925, & -1.09334345623960, & -0.438270518204902, & 0.291570288770806, & -2.35952351095849, & 0.0595705885660458, & 0.400737998146962, & -1.85300807141960, & 0.306157818568223, & 1.26652847557265, & -0.698654270705207, & 0.269540707973063, & -0.187120544841388, & 0.0173443460436582, & -0.106671817056153, & -1.45904186908361, & 0.221273067715513, & -0.482810840319050, & -2.25984035153099, & 0.0668692106170284, & -0.594353281657676, & -0.386394169497248, & -0.229292809268995, & 1.09453846090965, & -0.908705616318882, & 0.246449516399111, & -0.249413421524592, & 0.616300507674839, & 1.10769457603403, & 1.14360315451890, & -0.260139430391064, & 1.39185483504681, & 1.40631490892524, & 1.38321391556811, & 0.685252427932931, & -0.799395126005953, & -0.557410875209181, & 1.79975278578809, & 0.680584962724148, & -1.56662624914657, & -1.37120417016298 & \right\},$
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- 42: { -0.0630548731896562, 1.10061021788087, -1.07215528838425, 2.52599969211831, -0.483815050110121, -0.278064 163765309, 1.00777340530544, -0.860815690006961, -1.48139907157878, 0.199189444075264, -0.168469878275448, 0.95099 3499549085, 0.566696097539305, -1.32162559081010, -0.368010733040955, 0.496684391636530, 0.270378202689916, -0.960 966563537669, -0.204570050663136, -0.694605254222804, 0.465864128078826, 0.987694691911684, 0.217738348381478, 0.3 31880876981422, -1.83014932210345, -0.296165383347162, 0.613385212333465, 0.901491435092922, -2.42474991337221, -1.32252964774282, 0.408073894625228, -0.897979544722800, 0.0151128385440506, -0.654046335191623, -1.19662171456272, 0.361980137920309, -1.41691416697625, -0.817611832254945, 0.179801671924433, -0.524812993989912, 0.00074740619173 4232, 0.0828305622755246, -0.125812180556037, 1.82221152843106, -0.00144289886256035, 0.849297440422057, 0.6477327 26433212, -0.143267546672041, -0.587577796579298, 0.204132045747979 },
- $43: \{ 0.714742903826096, 1.54421189550395, 0.960953869740567, 1.65549759288735, -0.712004549027423, 0.42271569120478, -2.12365546241575, 0.784668467287822, 0.155488995903894, -1.52102656176895, -0.218533560026581, -0.432003843727780, -1.38262115948035, -0.636128249660041, -1.36096312939369, 1.08224059616070, -0.652771012058928, -0.653735016358028, -2.20152190603627, -0.461882993134125, 1.85356094249385, 0.392934569877554, -1.90924490126273, 2.36522474259891, -0.449103079849422, 0.564295551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934991, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 1.68285053633205, 0.394675531568292, -0.283829926302804, -0.859551934993, 0.394675531568292, -0.283829926302804, -0.859551934993, 0.394675531568292, -0.283829926302804, -0.859551934993, 0.394675531568292, -0.283829926302804, -0.859551934993, 0.394675531568292, -0.283829926302804, -0.859551934992, -0.283829926302804, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.859551934994, -0.8595519349$

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Sun Jun 07 11:35:54 2015
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 $68: \{ -1.71151641885370, -1.16584393148205, -0.299066030332982, -0.0678655535426873, 1.24244840639074, -1.61183038867781, 0.441326931727609, 0.319949134382331, -0.326814228785906, 0.439997904822629, -0.140321722056366, -0.009814918438231, -0.326814228785906, 0.439997904822629, -0.140321722056366, -0.009814918438231, -0.326814228785906, 0.439997904822629, -0.140321722056366, -0.00981491848818, -0.00981491848818, -0.00981491848818, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.00981491848, -0.0098149184, -0.00981484, -0.$ 1245666352581, -0.938247210627779, -1.76841403231106, 2.75255787759549, 0.790683469747323, 0.112439710593741, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.6683469747323, -1.66834697474740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.668346974740, -1.66846974740, -1.66846974740, -1.6684697440, -1.6684697440, -1.6684697440, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.668469740, -1.66846000, -1.6684600, -1.66846000, -1.66846000, -1.66840000, -1.6684000, -1.6684000, -1.66840000, -1.6684000, -1.66840000, -1.6684000 $-2.07681148516310,\ 0.154120187534393,\ -0.613171560234073,\ -1.17189080414528,\ 0.528265783681366,\ -1.32563829453186,\ -1.$, -0.116771141304530, 0.0845369570761526, 0.349156337155410 },

69: { -0.102242446085491, -1.14795277889859, 0.0228897927516298, -0.195221197898754, -1.06670139898475, -0.0244 619366359185, -1.39813787581107, -0.558294284850904, 0.812323004640796, -0.616865928889227, 0.899822328897224, -0.689810537631710, -0.990532220484176, 0.0780200809780775, -0.571773218349456, -1.42447009141638, 1.38449851135426, $-0.414658917455486,\ 1.67421595177913,\ -0.422919535898430,\ 0.138317724815553,\ -0.116571328658856,\ -0.30862493454702$ $96113,\ 0.0759474321256630,\ -1.27813736919090,\ 0.441056579174584,\ 1.04368893647872,\ -0.854353379120009,\ 0.219453518$ $638082, -0.107191878127395, \ 0.669365130823024, \ 0.664281757759034, \ -0.864214645938950, \ -0.106555151565640, \ 0.7636478127395, \ 0.669365130823024, \ 0.664281757759034, \ -0.864214645938950, \ -0.106555151565640, \ 0.7636478127395, \ 0.669365130823024, \ 0.664281757759034, \ -0.864214645938950, \ -0.106555151565640, \ 0.7636478127395, \ 0.669365130823024, \ 0.664281757759034, \ -0.864214645938950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.86421464593950, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.8642146459300, \ -0.864214645000, \ -0.864214645000, \ -0.8642146450000, \ -0.864214645000000, \ -0.8642146400000000000000000000$ 57882848501, -0.648296910104249, -0.574514061258489, 1.85928030068645 },

66699153601164, -1.17303232726741, 1.32438544916022, -0.250032278035044, 0.717442315507358, -0.0627267940412559, 1.066699153601164, -1.17303232726741, 1.32438544916022, -0.250032278035044, 0.717442315507358, -0.0627267940412559, 1.066699153601164, -0.0666915601164, -0.0666915601164, -0.06669164, - $.91218083836386,\ 0.124988173845023,\ -1.05310242919018,\ -1.90706620837312,\ 0.553089887878288,\ 0.456659609115151,\ -0.6669116181,\ -0.6669118181,\ -0.6669116181,\ -0.66691181,\ -0.66691181,\ -0.66691181,\ -0.66691181,\ -0.66691181,\$ $.654768851858015, \ -1.44493941921490, \ -0.473237143331362, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.473237143331362, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.473237143331362, \ -0.47323714331362, \ -0.47323714331362, \ -0.47323714331362, \ -0.47323714331362, \ -0.47323714331362, \ -0.47323714331362, \ -0.47323714331362, \ -0.47323714331432, \ -0.47323714331414, \ -0.4732371431414, \ -0.4732371431414, \ -0.4732371431414, \ -0.473237143144, \ -$ 321, -1.71287908652886, 0.683236637724418, -0.702264007180178, -0.376554951987101, -0.215161246502892, 1.127442346 333062860, -0.0379812048876393, 0.499750630743405, 0.927071973161696 },

79: 80:

 $73: \left\{ \begin{array}{llll} -0.864879917324457, & -0.666890670701386, & -0.831366511567624, & 0.0512903558487747, & 0.182452167505983, & 0.00116208348351385, & -0.273046949402907, & -0.908745586874325, & -0.751894738681892, & 1.72984139157236, & 1.01280186426298, & 0.398362846165994, & -1.59418372026681, & -1.17135581792030, & -1.33797665356226, & 1.40653513807679, & -1.02058339313102, & -1.14242816812144, & 0.854042818220478, & 1.76899156918657, & -0.764753364521138, & 0.761200281866834, & -0.134765126722850, & -0.904834447327702, & -0.347877973085105, & 0.716342804277267, & -0.630515032828478, & 0.825264441429846, & 0.609239402441208, & -1.22512571743544, & 0.482987052893212, & -0.370261565518122, & 0.353453034782426, & 0.433979032773600, & -0.689427057923177, & -0.163880256756727, & 0.433139398845963, & 0.990750986531975, & -0.163741836804853, & -1.63780371606913, & 0.6706379095533, & 0.279045918708163, & 0.730050867444302, & 0.667241351746618, & 0.302320074946896, & -1.99775912436652, & 1.2374021264301, & -0.0561440709069334, & 0.778248191474934, & 0.891646400708002 \end{array} \right\},$

 $75: \left\{ \begin{array}{llll} -0.164879019209038, & -0.0824944253709554, & -1.15640165566400, & 1.52697668673337, & -0.0845394798177242, & -2.48628392070328, & -0.480937151778845, & -1.69886408417261, & -0.0325665091944807, & -0.737059771697806, & -0.213015082641055, & 0.180257693987047, & 0.787066676357980, & 0.310508318600499, & 0.853086767518578, & 0.929660284419656, & 0.626278997699139, & -1.16872284991455, & -1.15600108495170, & 0.164010316907443, & 0.0781888950833453, & 1.63205721592088, & 0.460789425007212, & -0.725798166048959, & 1.34115381887992, & 0.433986613232231, & 0.782334970498853, & -0.534204178984686, & 0.277457471578041, & -0.274574741578041, & -0.274574741578041, & -0.274574741, & -0.274574741, & -0.274574741, & -0.274574741, &$

 $77: \left\{ \begin{array}{llll} 1.09326566903948, & -0.438966153934773, & -2.00263573588306, & -0.209713338388737, & 0.0983477746401080, & -2.19243491996591, & 0.664734120627595, & -0.117798289267962, & -0.425058490610031, & 0.910482579647112, & -1.04310830133763, & 0.682964276111937, & 0.0931087600588035, & 0.503744055737328, & -0.700620213418206, & 0.661536244123409, & -0.197342906850919, & 1.30183950434961, & -0.450598603707587, & 1.15216580794839, & -0.715847393133824, & -1.33685240472023, & 0.451874567380709, & -0.421846780441972, & 0.875135601991687, & -1.09224451734164, & 0.302407416537707, & -0.100647949072058, & 0.173593051437428, & 0.403880739292361, & 0.00532168979485395, & -1.09541491865986, & 0.0776686794320303, & 0.497899500583305, & -0.941791969061035, & -1.35155634252200, & -1.18212703394540, & 0.0483900176597465, & -1.35010016594322, & -0.126011360116434, & -0.398163107155880, & -1.28940788194516, & 1.01414104094213, & 0.618953085869227, & 0.541608366255458, & -0.847371160164792, & 0.75416580828282410, & -0.414907279235850, & 1.85120493279698, & -1.55186406853224 \right\},$

 $78: \left\{\begin{array}{llll} 1.10927329761440, & -1.79467884145512, & 0.964229422631628, & 0.625190357087626, & 0.0413736134896147, & -2.3192803 \\ 0.064330, & 0.0851885927211602, & 0.699160333644167, & 0.589433366718221, & 0.867082552947325, & -0.270068812648099, & 1.170608 \\ 0.03560, & -0.378157056589758, & -0.892661403477038, & -1.63054289274725, & 2.13850225382851, & 0.405605372640549, & -0.59364 \\ 1761840396, & 0.109247941665665, & -1.14650763211670, & -0.280515661741481, & -1.47384649800853, & 1.64838365704617, & -0.9426 \\ 0.03542880616, & 1.39544988693277, & -0.225794451802544, & 0.0583198538886379, & -1.62504844947823, & 0.453591153371088, & 1.192 \\ 0.0354280616, & 1.3914949095078, & 0.549233489827528, & 1.79093025896060, & 2.31562610334450, & -0.652861505816215, & 0.364211 \\ 0.05636417288340, & 0.583847690104213, & -0.664853402867584, & -1.16224097904506, & 0.299580407299929, & -0.0854625512885032, & 0.6575636417288340, & -0.0843484107867966, & 1.80306351071647, & -0.821128258718891, & 1.33723804312817, & 1.52449750573379, & -0.658616762511396, & -1.89766476744468, & 0.444083312031626 \end{array}\right\};$

```
1: /* Copyright (C) Jelle Spijker - All Rights Reserved
 2: * Unauthorized copying of this file, via any measure 12: 3: * and only allowed with the written consent of the author (Jelle Spijker)
    * Unauthorized copying of this file, via any medium is strictly prohibited
 4: * This software is proprietary and confidential
    * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
 6: */
7:
8: #define QCLOSE_COMPARE(actual, expected, A)
9:
      QCOMPARE((int64)((actual) / A), (int64)((expected) / A))
10: #define QCOMPARE_RANGE(actual, expected, endcount, type)
11: count = 0;
     12:
13:
14: #define QCLOSE_COMPARE_RANGE(actual, expected, endcount, A, type)
15:
     count = 0;
16:
     for each(actual, actual + endcount,
               [&](type & AC) { QCLOSE_COMPARE(AC, (type)expected[count++], A); })
17:
18:
19: #include <QString>
20: #include <QtTest>
21:
22: #include <stdint.h>
23:
24: #include <opencv2/core.hpp>
25: #include <opencv2/highgui.hpp>
26:
27: #include "SoilMath.h"
28:
29: #include "StatisticalComparisonDefinition.h"
30: #include "FloatTestMatrix.h"
31: #include "TestMatrix.h"
32: #include "beanhisttest.h"
33:
34: class SoilMath_Test : public QObject {
35:
     O OBJECT
36:
37: public:
38:
     SoilMath_Test();
39:
40: private:
41:
     uint32_t count = 0;
42:
43: private Q_SLOTS:
44: void testCase_Sort();
45:
     void testCase_Sort_withKey();
46:
47:
      void testCase_Stats_BigNoDiscrete();
48:
      void testCase_Stats_Shifted();
49:
50:
     void testCase_Mat_Stats();
51:
      void testCase_Mat_Stats_Mask();
52:
53:
      void testCase_benchmark_roundcast();
54:
     void testCase_benchmark_float2intround();
55:
56:
     void testCase_quickPow();
57:
     void testCase_fastPow();
58:
59:
     void testCase_benchmark_quickPow();
     void testCase_benchmark_fastPow();
60:
61:
     void testCase_benchmark_normalPow();
62: };
63:
64: SoilMath_Test::SoilMath_Test() {}
65:
66: void SoilMath_Test::testCase_Sort() {
        uint16_t compArr[10] = {1, 2, 4, 4, 5, 6, 7, 10, 10, 10};
uint16_t startArr[10] = {10, 2, 5, 1, 7, 10, 4, 10, 4, 6};
67:
68:
        SoilMath::Sort::QuickSort<uint16_t>(startArr, 10);
69:
70:
71:
        QCOMPARE_RANGE(startArr, compArr, 10, uint16_t);
72:
73:
        QBENCHMARK {
            uint16_t sArr[10] = {10, 2, 5, 1, 7, 10, 4, 10, 4, 6};
74:
75:
            SoilMath::Sort::QuickSort<uint16_t>(sArr, 10);
76:
77:
78:
79: }
80:
81: void SoilMath_Test::testCase_Sort_withKey() {
        uint16_t compArr[10] = {1, 2, 4, 4, 5, 6, 7, 10, 10, 10};
uint16_t compKeyArr[10] = {3, 1, 6, 8, 2, 9, 4, 7, 5, 0};
82:
83:
```

```
./SoilMath_Test/tst_soilmath_test.cpp
```

Tue Jul 14 22:01:55 2015

```
2
```

```
uint16_t startArr[10] = {10, 2, 5, 1, 7, 10, 4, 10, 4, 6};
uint16_t startKeyarr[10] = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9};
 85:
 86:
 87:
         SoilMath::Sort::QuickSort<uint16_t>(startArr, startKeyarr, 10);
 88:
         QCOMPARE_RANGE(startArr, compArr, 10, uint16_t);
 89:
         OCOMPARE RANGE(startKeyarr, compKeyArr, 10, uint16 t);
 90:
 91:
         OBENCHMARK {
             uint16_t sArr[10] = {10, 2, 5, 1, 7, 10, 4, 10, 4, 6};
uint16_t sKeyarr[10] = {0, 1, 2, 3, 4, 5, 6, 7, 8, 9};
 92:
 93:
 94:
             SoilMath::Sort::OuickSort<uint16 t>(sArr, sKeyarr, 10);
         }
 95:
 96: }
 97:
 98: void SoilMath_Test::testCase_Stats_BigNoDiscrete() {
 99:
       uint16_t *BigNoTestMatrix = new uint16_t[40000];
100:
       uint32_t count = 0;
101:
       for (uint32_t i = 0; i < 200; i++) {</pre>
         for (uint32_t j = 0; j < 200; j++) {</pre>
102:
103:
           BigNoTestMatrix[count++] = testMatrix[i][j] * 10;
104:
       }
105:
106:
107:
       uint16Stat_t Test(BigNoTestMatrix, 200, 200);
108:
109:
       QCOMPARE_RANGE(Test.bins, histTestResult, 255, uint32_t);
110:
       QCLOSE_COMPARE(Test.Mean, meanTestResult * 10, 0.01);
111:
       QCOMPARE(Test.n, nTestResult);
112:
       QCOMPARE((uint64_t)Test.Sum, (uint64_t)(sumTestResult * 10));
113:
       {\tt QCOMPARE((uint32\_t)Test.min, (uint32\_t)(minTestResult * 10));}
       QCOMPARE((uint32_t)Test.max, (uint32_t)(maxTestResult * 10));
114:
115:
       QCOMPARE((uint32_t)Test.Range, (uint32_t)(rangeTestResult * 10));
116:
       QCLOSE_COMPARE(Test.Std, stdTestResult * 10, 0.025);
117:
118:
       delete[] BigNoTestMatrix;
119: }
120:
121: void SoilMath_Test::testCase_Stats_Shifted() {
122:
      uint16_t *BigNoTestMatrix = new uint16_t[40000];
123:
       uint32 t count = 0;
       for (uint32_t i = 0; i < 200; i++) {</pre>
124:
125:
         for (uint32_t j = 0; j < 200; j++) {
126:
           BigNoTestMatrix[count++] = testMatrix[i][j] + 10;
127:
         }
128:
       }
129:
130:
       uint32_t *histTestResultShifted = new uint32_t[266]{};
131:
       for (uint32_t i = 10; i < 266; i++) {</pre>
132:
         histTestResultShifted[i] = histTestResult[i - 10];
133:
134:
135:
       uint16Stat_t Test(BigNoTestMatrix, 200, 200, 266, 0, 265);
136:
137:
       QCOMPARE_RANGE(Test.bins, histTestResultShifted, 266, uint32_t);
       QCLOSE_COMPARE(Test.Mean, meanTestResult + 10, 0.01);
138:
139:
       QCOMPARE(Test.n, nTestResult);
140:
       QCLOSE_COMPARE(Test.Std, stdTestResult, 0.025);
141:
142:
       delete[] BigNoTestMatrix;
143: }
144:
145: void SoilMath_Test::testCase_Mat_Stats() {
       cv::Mat beans = cv::imread("Images/beans.ppm", 0);
146:
       ucharStat_t Test((uchar *)beans.data, beans.cols, beans.rows);
147:
148:
       QCLOSE_COMPARE(Test.Mean, actualMeanBean, 0.001);
149:
       QCOMPARE_RANGE(Test.bins, actualHistBean, 256, uint32_t);
150:
       QCOMPARE(Test.min, actualminBean);
151:
       QCOMPARE(Test.max, actualMaxBean);
152:
       QCLOSE_COMPARE(Test.Std, actualStdBean, 0.01);
153:
       QCOMPARE((uint64_t)Test.Sum, (uint64_t)actualSumBean);
154:
155:
       OBENCHMARK {
156:
         ucharStat_t TestBench((uchar *)beans.data, beans.cols, beans.rows);
157:
158: }
159:
160: void SoilMath_Test::testCase_Mat_Stats_Mask() {
161:
      cv::Mat beans = cv::imread("Images/beans.ppm", 0);
       cv::Mat mask = cv::imread("Images/beansmask.ppm", 0);
162:
       ucharStat_t Test((uchar *)beans.data, beans.cols, beans.rows,
163:
                         (uchar *)mask.data);
164:
165:
       QCLOSE_COMPARE(Test.Mean, acutalMeanBeanMask, 0.001);
166:
       QCOMPARE_RANGE(Test.bins, actualHistBeanMask, 256, uint32_t);
```

```
QCOMPARE(Test.min, actualminBeanMask);
       QCOMPARE(Test.max, actualMaxBeanMask);
168:
169:
       QCOMPARE((uint64_t)Test.Sum, (uint64_t)actualSumBeanMask);
170:
       QCLOSE_COMPARE(Test.Std, actualStdBeanMask, 0.01);
171:
       QBENCHMARK {
172:
         ucharStat_t TestBench((uchar *)beans.data, beans.cols, beans.rows,
                               (uchar *)mask.data);
173:
174:
175: }
176:
177: void SoilMath_Test::testCase_benchmark_roundcast() {
178:
      float testf = 254.5;
179:
180:
       QBENCHMARK { static_cast<int>(std::round(testf)); }
181: }
182:
183: void SoilMath_Test::testCase_benchmark_float2intround() {
184:
      float testf = 254.5;
185:
186:
       QBENCHMARK { SoilMath::float2intRound(testf); }
187: }
188:
189: void SoilMath_Test::testCase_quickPow() {
190:
     for (int i = -255; i < 256; i++) {</pre>
191:
        QCLOSE_COMPARE(SoilMath::quick_pow2(i), std::pow(i, 2), 0.0001);
192:
193:
194:
       QBENCHMARK { SoilMath::quick_pow2(127); }
195: }
196:
197: void SoilMath_Test::testCase_fastPow() {
198:
     for (int i = 1; i < 256; i++) {</pre>
199:
        QCLOSE_COMPARE(SoilMath::fastPow(i, 2), std::pow(i, 2), 1.2);
200:
201:
202:
       QBENCHMARK { SoilMath::fastPow(127, 2); }
203: }
204:
205: void SoilMath_Test::testCase_benchmark_quickPow() {
     QBENCHMARK { SoilMath::quick_pow2(127); }
206:
207: }
208:
209: void SoilMath_Test::testCase_benchmark_fastPow() {
210:
      QBENCHMARK { SoilMath::fastPow(127, 2); }
211: }
212:
213: void SoilMath_Test::testCase_benchmark_normalPow() {
214:
      QBENCHMARK { std::pow(127, 2); }
215: }
216:
217: QTEST_APPLESS_MAIN(SoilMath_Test)
218:
219: #include "tst_soilmath_test.moc"
```

```
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 3: * and only allowed with the written consent of the author (Jelle Spijker)
 4: * This software is proprietary and confidential
    * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
 6: */
 7:
8:
9:
10: // Comparison values
11: #define N_MAT 3145728
12:
13: #define L_STD 5.028381605997681
14: #define L_MEAN 80.890745699097508
15: #define L_RANGE 79.936077729332197
16: #define L_MIN 16.742040567344091
17: #define L_MAX 96.678118296676288
18: #define L_SUM 2.544602836865306e8
19:
20: #define A_STD 0.866299119209983
21: #define A MEAN -3.380512963778564
22: #define A_RANGE 28.974365656143501
23: #define A_MIN -21.293453236190196
24: #define A_MAX 7.680912419953306
25: #define A_SUM -0.106341742845212e8
26:
27: #define B_STD 1.582722966505156
28: #define B_MEAN -14.069966616731605
29: #define B_RANGE 52.152618100375619
30: #define B_MIN -49.577771326645184
31: #define B_MAX 2.574846773730433
32: #define B_SUM -0.442602879453179e8
33:
34: #define X_STD 0.063845026292892
35: #define X_MEAN 0.544538411135235
36: #define X_RANGE 0.783231866666667
37: #define X_MIN 0.019708690196078
38: #define X_MAX 0.802940556862745
39: #define X_SUM 1.712969726983621e6
40:
41: #define Y_STD 0.068325856701040
42: #define Y_MEAN 0.586997317935942
43: #define Y_RANGE 0.894038392156863
44: #define Y_MIN 0.022487607843137
45: #define Y_MAX 0.916526000000000
46: #define Y_SUM 1.846533898955995e6
47:
48: #define Z_STD 0.097003939083143
49: #define Z_MEAN 0.814970278082424
50: #define Z_RANGE 1.032072011764706
51: #define Z_MIN 0.048455952941176
52: #define Z_MAX 1.080527964705882
53: #define Z_SUM 2.563674822931669e6
54:
55: #define RI_STD 0.215470901001717
56: #define RI_MEAN -0.061338583528514
57: #define RI_RANGE 1.861278665280243e2
58: #define RI_MIN -1.210658478499890e2
59: #define RI_MAX 65.062018678035301
60: #define RI_SUM -1.929544996859839e5
```

```
1: #include <opencv2/core.hpp>
    2: #include <opencv2/highgui.hpp>
    3: #include <QDebug>
    4:
    5: #include "Vision.h"
    6: #include "VisionFunctions.h"
    7:
    8: void VisionFunctions::CLAHE(Mat &src, Mat &newImage, int GridSize = 3){
    9:
          // apply the CLAHE algorithm to the L channel
   10:
           std::vector<cv::Mat> lab_planes(3);
   11:
           cv::split(src, lab_planes);
   12:
   13:
           // create the CLAHE algorithm and apply it
   14:
          cv::Ptr<cv::CLAHE> clahe = cv::createCLAHE();
   15:
           //clahe->setClipLimit(GetThresholdLevel(src, Vision::Segment::Dark, 0, 2));
   16:
           clahe->setTilesGridSize(cv::Size(GridSize,GridSize));
   17:
           clahe->apply(lab_planes[0], newImage);
   18:
   19: };
   20:
   21: void VisionFunctions::Laplace(Mat &src, Mat &newImage,int kernelSize) {
   22:
           cv::Laplacian(src, newImage, -1, kernelSize); // CV_16S
   23: };
   25: void VisionFunctions::AdaptiveThreshold(Mat &src, Mat &newImage, uchar kernelSize, Vision::Segment::TypeOfO
bjects Object) {
   26:
   27:
           // reset the values in the newImage
   28:
           newImage = Scalar(0);
   29:
           // determine the length of an arm of the window
   30:
   31:
           int length = (kernelSize - 1)/2;
   32:
   33:
           for(int i = length; i < (src.cols - length); i++)</pre>
   34:
   35:
               for(int j = length; j < (src.rows - length); j++)</pre>
   36:
               {
   37:
                   // determine the threshold level for a local pixel
   38:
   39:
                   //cv::Mat subImage = src.colRange(i-length,i+length).rowRange(j-length,j+length);
                   //{\tt Mat\ subImage(src,\ cv::Rect(i\ -\ length,\ j\ -\ length,\ kernelSize,\ kernelSize));}
   40:
   41:
   42:
                   if (j == length \&\& i == length){}
   43:
                       //imshow("one", subImage);
   44:
   45:
   46:
                    // determine if the local pixel is 0 or 1
   47:
                   if (src.at<uchar>(j,i) < T){</pre>
   48:
                       newImage.at<uchar>(j,i) = 255;
   49:
   50:
                   else{
   51:
                       newImage.at<uchar>(j,i) = 0;
   52:
   53:
               }
   54:
   55:
   56: };
   57:
   58: uint8_t VisionFunctions::GetThresholdLevel(Mat &src, Vision::Segment::TypeOfObjects TypeObject,int threshol
dOffset = 0, int sigma = 2) {
   59:
         // Calculate the statistics of the whole picture
   60:
         ucharStat_t OriginalImgStats(src.data, src.rows, src.cols);
   61:
   62:
         // Sets the initial threshold with the mean of the total picture
         pair<uchar, uchar> T;
   63:
   64:
         T.first = (uchar)(OriginalImgStats.Mean + 0.5);
   65:
        T.second = 0;
   66:
   67:
         uchar Rstd = 0;
   68:
         uchar Lstd = 0;
   69:
         uchar Rmean = 0;
   70:
         uchar Lmean = 0;
   71:
   72:
         // Iterate till optimum Threshold is found between back- & foreground
   73:
         while (T.first != T.second) {
   74:
           // Gets an array of the left part of the histogram
   75:
           uint32_t i = T.first;
   76:
           uint32_t *Left = new uint32_t[i]{};
   77:
           while (i-- > 0) {
   78:
             Left[i] = OriginalImgStats.bins[i];
   79:
   80:
   81:
           // Gets an array of the right part of the histogram
```

```
uint32_t rightEnd = 256 - T.first;
        uint32_t *Right = new uint32_t[rightEnd]{};
 83:
84:
        i = rightEnd;
 85:
        while (i-- > 0) {
 86:
          Right[i] = OriginalImgStats.bins[i + T.first];
 87:
 88:
 89:
        // Calculate the statistics of both histograms,
 90:
        // taking into account the current threshold
 91:
        ucharStat_t sLeft(Left, 0, T.first);
        ucharStat_t sRight(Right, T.first, 256);
 92:
93:
94:
        // Calculate the new threshold the mean of the means
 95:
       T.second = T.first;
 96:
        T.first = (uchar)(((sLeft.Mean + sRight.Mean) / 2) + 0.5);
97:
       Rmean = (uchar)(sRight.Mean + 0.5);
98:
99:
        Lmean = (uchar)(sLeft.Mean + 0.5);
100:
       Rstd = (uchar)(sRight.Std + 0.5);
101:
        Lstd = (uchar)(sLeft.Std + 0.5);
       delete[] Left;
102:
103:
        delete[] Right;
104:
105:
106:
      // Assumes the pixel value of the sought object lies between 2 sigma
107:
      int val = 0;
108:
      switch (TypeObject) {
109:
      case Vision::Segment::Bright: // bright
110:
       val = Rmean - (sigma * Rstd) - thresholdOffset;
        if (val < 0) {
111:
          val = 0;
112:
       } else if (val > 255) {
113:
114:
          val = 255;
115:
116:
        T.first = (uchar)val;
        break;
117:
118:
      case Vision::Segment::Dark: // dark
119:
        val = Lmean + (sigma * Lstd) + thresholdOffset;
        if (val < 0) {
120:
121:
          val = 0;
        } else if (val > 255) {
122:
123:
          val = 255;
124:
125:
        T.first = (uchar)val;
126:
        break;
127:
128:
129:
      return T.first;
130: }
131:
```

```
1: #define NO_OF_BLOBS 379
 2: #define SMALL_NO_OF_BLOBS 4
 3:
 4: #include <QString>
 5: #include <QtTest>
 6: #include <opencv2/core.hpp>
 7: #include <opencv2/highgui.hpp>
 8:
9: #include "Vision.h"
10:
11: class Vision_Test : public QObject
12: {
13:
        Q_OBJECT
14:
15: public:
16:
        Vision_Test();
17:
18: private Q_SLOTS:
19:
      void TestCase_SimpleLabelBlob();
20:
        void TestCase_SingleComplexLabelBlob();
21:
        void TestCase_LabelBlobs();
22: };
23:
24: Vision_Test::Vision_Test()
25: {
26: }
27:
28: void Vision_Test::TestCase_SimpleLabelBlob() {
    uchar testImgData[100] = { 0, 0, 1, 1, 0, 0, 1, 1, 1, 1,
                                  0, 0, 0, 1, 0, 0, 0, 1, 1, 1,
30:
                                  1, 0, 0, 1, 0, 1, 0, 0, 1, 1,
31:
32:
                                  1, 1, 1, 1, 0, 1, 1, 0, 1, 1,
33:
                                  1, 1, 0, 0, 0, 0, 1, 0, 1, 1,
34:
                                  0, 0, 0, 1, 1, 0, 0, 0, 0, 1,
35:
                                  1, 1, 0, 0, 1, 1, 0, 0, 1, 1,
36:
                                  1, 1, 1, 0, 0, 1, 1, 0, 1, 1,
37:
                                  0, 0, 1, 1, 0, 1, 1, 0, 1, 1,
38:
                                  0, 0, 0, 1, 0, 0, 1, 1, 1, 1};
39:
     cv::Mat testImg(10, 10, CV_8UC1, testImgData);
40:
41:
     testImg *= 255;
42:
     Vision::Segment Segmenter(testImg);
43:
      Segmenter.ConvertToBW(Vision::Segment::Bright);
44:
      Segmenter.GetBlobList(true);
     uint16_t totalNoOfBlobs = Segmenter.MaxLabel;
45:
      QCOMPARE(totalNoOfBlobs, uint16_t(SMALL_NO_OF_BLOBS));
46:
47: }
48:
49: void Vision_Test::TestCase_SingleComplexLabelBlob() {
     uchar testImgData[100] = { 0, 0, 0, 0, 0, 0, 0, 1, 1, 0,
50:
51:
                                  0, 0, 0, 0, 0, 1, 1, 1, 1, 1,
52:
                                  0, 0, 0, 1, 1, 1, 1, 1, 1, 1,
53:
                                  0, 1, 1, 1, 1, 1, 1, 1, 1, 1,
54:
                                  1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
55:
                                  0, 0, 0, 1, 0, 0, 0, 1, 1, 1,
56:
                                  0, 0, 0, 0, 0, 1, 1, 1, 1, 1,
57:
                                  0, 0, 0, 1, 1, 1, 1, 1, 0, 0,
58:
                                  0, 1, 1, 1, 1, 1, 1, 0, 0, 0,
59:
                                  1, 1, 1, 1, 1, 1, 1, 0, 0, 0};
60:
      cv::Mat testImg(10, 10, CV_8UC1, testImgData);
61:
62:
      testImg *= 255;
63:
      Vision::Segment Segmenter(testImg);
64:
      Segmenter.ConvertToBW(Vision::Segment::Bright);
65:
      Segmenter.GetBlobList(true);
66:
      uint16_t totalNoOfBlobs = Segmenter.MaxLabel;
67:
      QCOMPARE(totalNoOfBlobs, uint16_t(1));
68:
69: }
70:
71: void Vision_Test::TestCase_LabelBlobs()
72: {
73:
        cv::Mat testImg = cv::imread("42_blobs.ppm", 0);
74:
75:
        Vision::Segment Segmenter(testImg);
76:
        Segmenter.ConvertToBW(Vision::Segment::Bright);
77:
        Segmenter.GetBlobList(true);
78:
        std::vector<int> params;
79:
        params.push_back(CV_IMWRITE_PXM_BINARY);
80:
        params.push_back(0);
81:
        cv::Mat temp(Segmenter.LabelledImg.rows, Segmenter.LabelledImg.cols, CV_8UC1);
82:
        Segmenter.LabelledImg.convertTo(temp, CV_8UC1);
        cv::imwrite("L.pgm", temp, params);
83:
```

91: #include "tst_vision_test.moc"

```
1: #ifndef VISIONFUNCTIONS_H
    2: #define VISIONFUNCTIONS_H
   3:
   4: #include <opencv2/core.hpp>
   5: #include <opencv2/highgui.hpp>
   6:
   7: #include "Vision.h"
   8:
   9: class VisionFunctions{
  10:
  11:
          public:
              void Laplace(Mat &src, Mat &newImage,int kernelSize);
  12:
  13:
              void CLAHE(Mat &src, Mat &newImage, int GridSize);
  14:
              void AdaptiveThreshold(Mat &src, Mat &newImage, uchar kernelSize, Vision::Segment::TypeOfObjects Ob
ject);
  15:
        private:
  16:
              uint8_t GetThresholdLevel(Mat &src, Vision::Segment::TypeOfObjects TypeObject,int thresholdOffset,
  17:
int sigma);
  18:
  19: };
  20:
  21: #endif // VISIONFUNCTIONS_H
```

```
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 2: * Unauthorized copying of this file, via any medium is strictly prohibited
3: * and only allowed with the written consent of the author (Jelle Spijker)
 4: * This software is proprietary and confidential
5: * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
 6: */
 7:
 8:
9: #include <QString>
10: #include <QtTest>
11:
12: class Soil_TestTest : public QObject
13: {
14:
         Q_OBJECT
15:
16: public:
17:
       Soil_TestTest();
18:
19: private Q_SLOTS:
20:
       void testCase1();
21: };
22:
23: Soil_TestTest::Soil_TestTest()
24: {
25: }
26:
27: void Soil_TestTest::testCase1()
28: {
29:
         QVERIFY2(true, "Failure");
30: }
31:
32: QTEST_APPLESS_MAIN(Soil_TestTest)
33:
34: #include "tst_soil_testtest.moc"
```

```
./VSA_UT/VSA_UT.cpp
```

```
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```

```
1
```

```
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 3: * and only allowed with the written consent of the author (Jelle Spijker)
 4: * This software is proprietary and confidential
 5: * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
 6: */
 7:
 8:
9: #define BOOST_TEST_MODULE VSA_UNIT_TESTS
10:
11: // Custom libraries
12: #include "../../../src/VisionSoilAnalyzer/Vision/Vision.h"
13: #include "../../../src/VisionSoilAnalyzer/Soil/VisionSoil.h"
14: #include "../../../src/VisionSoilAnalyzer/SoilMath/SoilMath.h"
15: #include "../../../src/VisionSoilAnalyzer/SoilPlot/SoilPlot.h"
16:
17: // Test Libraries
18: #include "FloatTestMatrix.h"
19: #include "TestMatrix.h"
20: #include "StatisticalComparisonDefinition.h"
21:
22: #include <boost/test/unit_test.hpp>
23: #include <boost/test/results_reporter.hpp>
24: #include <iostream>
25: #include <fstream>
26: #include <sstream>
27: #include <opencv2/core/core.hpp>
28: #include <opencv2/highgui/highgui.hpp>
29: #include <string>
30: #include <boost/archive/xml_oarchive.hpp>
31: #include <boost/archive/xml_iarchive.hpp>
32: #include <boost/archive/binary_iarchive.hpp>
33: #include <boost/archive/binary_oarchive.hpp>
34: #include <boost/serialization/vector.hpp>
35:
36: // Statistical analysis
37:
38: #include <math.h>
39: #include <cmath>
40: #include <random>
41: #include <sys/time.h>
42:
43: using namespace cv;
44: using namespace std;
45:
46: // Create the Report Redirector
47: struct LogToFile
48: {
49:
            LogToFile()
50:
51:
                    std::string logFileName(boost::unit_test::framework::master_test_suite().p_name);
52:
                    logFileName.append(".log");
53:
                    logFile.open(logFileName.c_str());
54:
                    boost::unit_test::unit_test_log.set_stream(logFile);
55:
            }
~LogToFile()
56:
57:
            {
58:
                    boost::unit_test::unit_test_log.test_finish();
59:
                    logFile.close();
60:
                    boost::unit_test::unit_test_log.set_stream(std::cout);
61:
62:
            std::ofstream logFile;
63: };
64: BOOST_GLOBAL_FIXTURE(LogToFile);
65:
66: struct M {
67:
           M()
68:
            {
                    BOOST_TEST_MESSAGE("setup fixture");
69:
70:
                    src = imread("../ComparisionPictures/SoilSampleRGB.ppm");
71:
72:
            ~M() { BOOST_TEST_MESSAGE("teardown fixture"); }
73:
74:
            friend class SoilAnalyzer::Sample;
75:
           Mat src;
76:
            Mat dst;
77:
           Mat comp;
78: };
79:
80: struct B {
81:
            B()
82:
            {
83:
                    BOOST_TEST_MESSAGE("Setup fixture");
```

```
src = imread("../ComparisionPictures/BlobTest.ppm", 0);
   85:
   86:
                ~B()
   87:
               {
   88:
                       src.release();
   89:
                       BOOST_TEST_MESSAGE("teardown fixture");
               }
   90:
   91:
   92:
               Mat src;
   93:
               Mat dst;
   94:
               Mat comp;
   95: };
   96:
   97: struct BM {
               BM()
   98:
   99:
               {
  100:
                       BOOST TEST MESSAGE("Setup fixture");
  101:
                       src = imread("../ComparisionPictures/BlobTestMany.ppm", 0);
  102:
  103:
                "BM() { BOOST_TEST_MESSAGE("teardown fixture"); }
  104:
  105:
               Mat src;
  106:
               Mat dst;
  107:
               Mat comp;
  108: };
  109:
  110: struct PM {
  111:
               PM()
  112:
               {
  113:
                       BOOST TEST MESSAGE("Setup fixture");
  114:
                       checker = imread("../ComparisionPictures/checker.ppm", 0);
  115:
                       std::vector<cv::Mat> RGB;
  116:
                       for (uint32_t i = 0; i < 3; i++)</pre>
  117:
                       {
  118:
                                RGB.push back(checker);
  119:
  120:
                       cv::Mat alpha(checker.rows, checker.cols, CV_8UC1);
  121:
                       alpha.setTo(255);
  122:
                       RGB.push_back(alpha);
                       merge(RGB, RGBchecker);
  123:
  124:
  125:
               ~PM() { BOOST_TEST_MESSAGE("teardown fixture"); }
  126:
  127:
               std::string TestWindow = "SoilPlot Image window";
  128:
               Mat checker;
  129:
               Mat RGBchecker;
  130:
               Mat comp;
  131: };
  132:
  133: //SoilPlot Test
  134: BOOST_FIXTURE_TEST_CASE(SoilPlot_Label, PM)
  135: {
  136:
           SoilPlot::Label TestR("RED", "times", 30, cv::Scalar(255, 0, 0, 255), cv::Scalar(0,0,0,0), false, true)
  137:
           SoilPlot::Label TestG("GREEN", "times", 30, cv::Scalar(0, 255, 0, 255), cv::Scalar(0, 0, 0, 0), false,
true);
  138:
           SoilPlot::Label TestB("BLUE", "times", 30, cv::Scalar(0, 0, 255, 255), cv::Scalar(0, 0, 0, 0), false, t
rue);
 139:
           SoilPlot::Label TestA("ALPHA", "times", 30, cv::Scalar(255, 125, 0, 10), cv::Scalar(0, 0, 0, 0), false,
 true);
  140:
           namedWindow(TestWindow, cv::WINDOW_NORMAL);
  141:
  142:
           TestR.TopLeftCorner = cv::Point(50, 10);
  143:
               TestR.Draw();
  144:
           imshow(TestWindow, TestR.Figure);
  145:
           cv::waitKey(0);
  146:
               TestR.DrawOnTop(RGBchecker);
  147:
           TestG.TopLeftCorner = cv::Point(50, TestR.Figure.rows + 30);
  148:
               TestG.Draw();
  149:
           imshow(TestWindow, TestG.Figure);
  150:
           cv::waitKey(0);
  151:
               TestG.DrawOnTop(RGBchecker);
  152:
           TestB.TopLeftCorner = cv::Point(50, TestG.TopLeftCorner.y + TestG.Figure.rows + 20);
  153:
               TestB.Draw();
  154:
           imshow(TestWindow, TestB.Figure);
  155:
           cv::waitKey(0);
  156:
               TestB.DrawOnTop(RGBchecker);
  157:
           TestA.TopLeftCorner = cv::Point(50, TestB.TopLeftCorner.y + TestB.Figure.rows + 20);
  158:
               TestA.Draw();
  159:
           imshow(TestWindow, TestA.Figure);
  160:
           cv::waitKey(0);
  161:
               TestA.DrawOnTop(RGBchecker);
```

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162:

```
163:
  164:
               imshow(TestWindow, RGBchecker);
  165:
               cv::waitKey(0);
  166: }
  167:
  168: BOOST_FIXTURE_TEST_CASE(SoilPlot_Lines, PM)
  169: {
  170:
               std::vector<SoilPlot::Line> Lines;
  171:
               Lines.push_back(SoilPlot::Line(cv::Point(80, 80), cv::Point(150, 150), 1, cv::Scalar(255, 0, 0, 255
)));
 172:
               Lines.push_back(SoilPlot::Line(cv::Point(80, 80), cv::Point(10, 150), 2, cv::Scalar(0, 255, 0, 255)
));
 173:
               Lines.push_back(SoilPlot::Line(cv::Point(80, 80), cv::Point(10, 10), 3, cv::Scalar(0, 0,255, 255)))
 174:
               Lines.push_back(SoilPlot::Line(cv::Point(80, 80), cv::Point(150, 10), 4, cv::Scalar(255, 0, 0, 255)
));
 175:
               Lines.push_back(SoilPlot::Line(cv::Point(80, 10), cv::Point(80, 150), 5, cv::Scalar(255, 0, 255, 25
5)));
  176:
               Lines.push_back(SoilPlot::Line(cv::Point(10, 80), cv::Point(150, 80), 10, cv::Scalar(255, 255, 0, 2
00)));
               for_each(Lines.begin(), Lines.end(), [&](SoilPlot::Line &L)
  177:
  178:
               {
  179:
                       L.Draw();
  180:
                       L.DrawOnTop(RGBchecker);
  181:
               });
  182:
  183:
               namedWindow(TestWindow, cv::WINDOW_NORMAL);
  184:
               imshow(TestWindow, RGBchecker);
  185:
               cv::waitKey(0);
  186: }
  187:
  188: BOOST_FIXTURE_TEST_CASE(SoilPlot_Axis, PM)
  189: {
  190:
               std::vector<SoilPlot::Axis> axes;
               SoilPlot::Label axisLabel("Horizontal", "times", 30, cv::Scalar(200, 80, 80, 255), cv::Scalar(0, 0,
 191:
 0, 0), true, true);
  192:
  193:
               std::vector<SoilPlot::Label> Values;
  194:
               Values.push_back(SoilPlot::Label("1", "times", 16, cv::Scalar(200,80,3,255), cv::Scalar(0,0,0,0), f
alse, true));
               Values.push_back(SoilPlot::Label("2", "times", 16, cv::Scalar(200,80,3,255), cv::Scalar(0,0,0,0), f
  195:
alse, true));
               Values.push_back(SoilPlot::Label("3", "times", 16, cv::Scalar(200,80,3,255), cv::Scalar(0,0,0,0), f
  196:
alse, true));
  197:
               axes.push_back(SoilPlot::Axis(cv::Point(20,140), 120, SoilPlot::Axis::Orientation_enum::Horizontal,
  198:
Values, axisLabel, SoilPlot::Axis::ValuePosition::UnderTick, false));
  199:
               for_each(axes.begin(), axes.end(), [&](SoilPlot::Axis &A)
  200:
  201:
                       A. Draw();
  202:
                       A.DrawOnTop(RGBchecker);
  203:
               });
  204: }
  205:
  206:
  207: BOOST_AUTO_TEST_CASE(SoilPlot_Bar_Graph)
  208: {
  209:
  210: }
  211:
  212: // SoilMath Test
  213: BOOST_AUTO_TEST_CASE(Vision_Create_Blobs)
  214: {
  215:
               cv::Mat src = imread(".../ComparisionPictures/BlobTest.ppm", 0);
  216:
  217:
               Vision::Segment Test(src);
               Test.ConvertToBW(Vision::Segment::Bright);
  218:
  219:
               Test.GetBlobList(true);
  220:
               imwrite("LabeledBlobs.ppm", Test.LabelledImg);
  221:
               BOOST_CHECK_EQUAL(42, Test.BlobList.size());
  222:
               for_each(Test.BlobList.begin(), Test.BlobList.end(), [](Vision::Segment::Blob_t &b)
  223:
               {
  224:
                       stringstream ss;
                       ss << b.Label << "_few_lnd.ppm";
  225:
  226:
                       imwrite(ss.str(), b.Img);
  227:
               });
  228: }
  229:
  230: BOOST_FIXTURE_TEST_CASE(Vision_Create_Many_Blobs, BM)
  231: {
  232:
               Vision::Segment Test(src);
  233:
               Test.ConvertToBW(Vision::Segment::Bright);
```

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234:

Test.GetBlobList(true);

```
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               imwrite("LabeledBlobsMany.ppm", Test.LabelledImg);
               BOOST_CHECK_EQUAL(370, Test.BlobList.size());
  236:
 237:
               for_each(Test.BlobList.begin(), Test.BlobList.end(), [](Vision::Segment::Blob_t &b)
 238:
 239:
                       stringstream ss;
                       ss << b.Label << "_many_.ppm";
 240:
 241:
                       imwrite(ss.str(), b.Img);
 242:
               });
  243: }
 244:
 245: BOOST_AUTO_TEST_CASE(SoilMath_Stats_BigNoDiscrete)
 246: {
 247:
               uint16_t *BigNoTestMatrix = new uint16_t[40000];
               uint32_t count = 0;
  248:
  249:
               for (uint32_t i = 0; i < 200; i++)</pre>
  250:
                       for (uint32_t j = 0; j < 200; j++)
  251:
 252:
  253:
                                BigNoTestMatrix[count++] = testMatrix[i][j] * 10;
  254:
                        }
               }
  255:
 256:
  257:
               uint16Stat_t Test(BigNoTestMatrix, 200, 200);
  258:
               BOOST_CHECK_EQUAL_COLLECTIONS(Test.bins, Test.bins + 255, histTestResult, histTestResult + 255);
 259:
               BOOST_CHECK_CLOSE(Test.Mean, meanTestResult * 10, 0.0001);
               BOOST_CHECK_EQUAL(Test.n, nTestResult);
  260:
 261:
               BOOST_CHECK_EQUAL(Test.Sum, sumTestResult * 10);
  262:
               BOOST_CHECK_EQUAL(Test.min, minTestResult * 10);
               BOOST_CHECK_EQUAL(Test.max, maxTestResult * 10);
 263:
 264:
               BOOST_CHECK_EQUAL(Test.Range, rangeTestResult * 10);
               BOOST_CHECK_CLOSE(Test.Std, stdTestResult * 10, 0.01);
 265:
 266:
               delete[] BigNoTestMatrix;
  267: }
 268:
 269: BOOST_AUTO_TEST_CASE(SoilMath_Sort)
 270: {
               int testDiscrete[] = { 2, 8, 1, 3, 0, 7, 4, 5, 9, 6, 6 };
int ucomp[] = { 0, 1, 2, 3, 4, 5, 6, 6, 7, 8, 9 };
 271:
 272:
               SoilMath::Sort::QuickSort<int>(testDiscrete, 11);
 273:
               BOOST_CHECK_EQUAL_COLLECTIONS(testDiscrete, testDiscrete + 10, ucomp, ucomp + 10);
 274:
 275: }
 276:
  277: BOOST_AUTO_TEST_CASE(SoilMath_Stats_ucharStat_t)
 278: {
 279:
               ucharStat_t Test((uint8_t *)testMatrix, 200, 200);
 280:
 281:
               BOOST_CHECK_EQUAL_COLLECTIONS(Test.bins, Test.bins + 255, histTestResult, histTestResult + 255);
  282:
               BOOST_CHECK_CLOSE(Test.Mean, meanTestResult, 0.0001);
 283:
               BOOST_CHECK_EQUAL(Test.n, nTestResult);
               BOOST_CHECK_EQUAL(Test.Sum, sumTestResult);
 284:
 285:
               BOOST_CHECK_EQUAL(Test.min, minTestResult);
 286:
               BOOST_CHECK_EQUAL(Test.max, maxTestResult);
  287:
               BOOST_CHECK_EQUAL(Test.Range, rangeTestResult);
 288:
               BOOST_CHECK_CLOSE(Test.Std, stdTestResult, 0.01);
 289: }
 290:
 291: BOOST_AUTO_TEST_CASE(SoilMath_Stats_floatStat_t)
  292: {
 293:
               floatStat_t Test((float *)ftestMatrix, 50, 50);
  294:
               BOOST_CHECK_EQUAL_COLLECTIONS(Test.bins, Test.bins + 255, fhistTestResult, fhistTestResult + 255);
  295:
  296:
               BOOST_CHECK_CLOSE(Test.Mean, fmeanTestResult, 0.01);
  297:
               BOOST_CHECK_EQUAL(Test.n, fnTestResult);
 298:
               BOOST_CHECK_CLOSE(Test.Sum, fsumTestResult, 0.01);
 299:
               BOOST_CHECK_CLOSE(Test.min, fminTestResult, 0.01);
  300:
               BOOST_CHECK_CLOSE(Test.max, fmaxTestResult, 0.01);
  301:
               BOOST_CHECK_CLOSE(Test.Range, frangeTestResult, 0.01);
  302:
               BOOST_CHECK_CLOSE(Test.Std, fstdTestResult, 0.025);
 303: }
 304:
  305: BOOST_AUTO_TEST_CASE(SoilMath_FFT_GetDescriptors)
  306: {
  307:
               uchar data[] =
  308:
               { 0, 0, 1, 1, 0, 0,
  309:
               0, 1, 0, 0, 1, 0,
  310:
               0, 1, 0, 0, 1, 0,
               1, 0, 0, 0, 0, 1,
  311:
  312:
               1, 0, 0, 0, 0, 1,
 313:
               0, 1, 0, 0, 1, 0,
 314:
               0, 1, 0, 0, 1, 0,
  315:
               0, 0, 1, 1, 0, 0 };
               cv::Mat src(8, 6, CV_8UC1, &data, 1);
```

317:

SoilMath::FFT Test;

```
318:
             ComplexVect_t desc = Test.GetDescriptors(src);
319:
             Complex_t desc_exp[] = {
320:
                     Complex_t(-1.6666667, -6),
321:
                     Complex_t(2.02375780, -0.16742019),
                     Complex_t(-3.1094758, -6.13316500),
322:
323:
                     Complex_t(-1.8036530, 1.023864110),
                     Complex_t(-0.6666667, -1),
324:
325:
                     Complex_t(0.04350554, -2.55884126),
326:
                     Complex_t(-3.0522848, -0.63807119),
                     Complex_t(-0.7780360, -0.31809187),
327:
                     Complex_t(-0.3333333, 0),
328:
329:
                     Complex_t(-1.3856866, -1.43021101),
330:
                     Complex_t(-1.2238576, 0.466498316),
331:
                     Complex_t(-0.3295119, 1.459385072),
332:
                     Complex_t(1.33333331, -1),
333:
                     Complex_t(-0.3482434, 0.489805636),
                     Complex_t(0.71895134, 0.304737878),
334:
335:
                     Complex_t(5.24453433, -0.49849056)
             };
336:
337:
             BOOST_CHECK_EQUAL(desc.size(), 16);
338:
339:
340:
             for (uint32_t i = 0; i < 16; i++)</pre>
341:
             {
342:
                     BOOST_CHECK_CLOSE(desc[i].real(), desc_exp[i].real(), 0.0001);
                     BOOST_CHECK_CLOSE(desc[i].imag(), desc_exp[i].imag(), 0.0001);
343:
             }
344:
345: }
346:
347: BOOST AUTO TEST CASE (SoilMath FFT GetDescriptors Non Continues Contour)
348: {
349:
             uchar data[] =
350:
             { 0, 0, 0, 1, 0, 0,
             0, 1, 0, 0, 1, 0,
351:
352:
             0, 1, 0, 0, 1, 0,
353:
             1, 0, 0, 0, 0, 1,
354:
             1, 0, 0, 0, 0, 1,
355:
             0, 1, 0, 0, 1, 0,
356:
             0, 1, 0, 0, 1, 0,
357:
             0, 0, 1, 1, 0, 0 };
             cv::Mat src(8, 6, CV_8UC1, &data, 1);
358:
359:
             SoilMath::FFT Test;
360:
             BOOST_CHECK_THROW(Test.GetDescriptors(src), SoilMath::Exception::MathException);
361: }
362:
363: BOOST_AUTO_TEST_CASE(SoilMath_NN_Save_And_Load)
364: {
365:
             SoilMath::NN Test(3, 5, 2);
366:
367:
             InputLearnVector t inputVect;
368:
             OutputLearnVector_t outputVect;
369:
370:
             //Population_t pop;
371:
             unsigned seed = std::chrono::system_clock::now().time_since_epoch().count();
372:
             std::default_random_engine gen(seed);
373:
             std::uniform_real_distribution<float> dis(0.0, 1.0);
374:
375:
             float i1 = 0.0, i2 = 0.0, i3 = 0.0;
376:
             float o1 = 0.0, o2 = 0.0;
377:
             for (uint32_t i = 0; i < 200; i++)</pre>
378:
379:
             {
                     if (dis(gen) > 0.5f) { i1 = 1.0; }
380:
381:
                     else { i1 = 0.0; }
                     if (dis(gen) > 0.5f) { i2 = 1.0; }
382:
383:
                     else { i2 = 0.0; }
384:
                     if (dis(gen) > 0.5f) { i3 = 1.0; }
385:
                     else { i3 = 0.0; }
386:
                     if (i1 == 1.0 && i2 == 1.0 && i3 == 0.0)
387:
388:
                      {
389:
                              01 = 1.0;
390:
                              02 = -1.0;
391:
                     }
                     else if (i1 == 0.0 && i2 == 0.0 && i3 == 1.0)
392:
393:
394:
                              01 = 1.0;
395:
                              02 = -1.0;
396:
                     }
397:
                     else
398:
399:
                              01 = -1.0;
```

02 = 1.0;

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400:

```
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  401:
  402:
 403:
                       ComplexVect_t inputTemp;
 404:
                       inputTemp.push_back(Complex_t(i1, 0));
  405:
                       inputTemp.push_back(Complex_t(i2, 0));
  406:
                       inputTemp.push_back(Complex_t(i3, 0));
  407:
                       inputVect.push_back(inputTemp);
  408:
  409:
                       Predict_t outputTemp;
  410:
                       outputTemp.OutputNeurons.push_back(o1);
 411:
                       outputTemp.OutputNeurons.push_back(o2);
  412:
                       outputVect.push_back(outputTemp);
  413:
               }
  414:
  415:
               Test.Learn(inputVect, outputVect, 0);
 416:
               Test.SaveState("NN.xml");
 417:
 418:
               SoilMath::NN loadTest;
 419:
               loadTest.LoadState("NN.xml");
 420:
 421:
               std::vector<float> test_out = Test.Predict(inputVect[0]).OutputNeurons;
 422:
               std::vector<float> loadtest_out = loadTest.Predict(inputVect[0]).OutputNeurons;
 423:
 424:
              BOOST_REQUIRE_EQUAL_COLLECTIONS(Test.hWeights.begin(), Test.hWeights.end(), loadTest.hWeights.begin
(), loadTest.hWeights.end());
              BOOST_REQUIRE_EQUAL_COLLECTIONS(Test.iWeights.begin(), Test.iWeights.end(), loadTest.iWeights.begin
 425:
(), loadTest.iWeights.end());
 426: }
 427:
 428: BOOST_AUTO_TEST_CASE(SoilMath_NN_Prediction_Accurancy)
 429: {
 430:
               SoilMath::NN Test;
 431:
          Test.LoadState("../ComparisionPictures/NN_Test.xml");
 432:
 433:
               InputLearnVector_t inputVect;
 434:
               OutputLearnVector_t outputVect;
 435:
               OutputLearnVector_t outputPredictVect;
  436:
 437:
               unsigned seed = std::chrono::system_clock::now().time_since_epoch().count();
 438:
               std::default_random_engine gen(seed);
               std::uniform_real_distribution<float> dis(0.0, 1.0);
 439:
 440:
  441:
               float i1 = 0.0, i2 = 0.0, i3 = 0.0;
 442:
               float o1 = 0.0, o2 = 0.0;
 443:
               for (uint32_t i = 0; i < 10; i++)</pre>
 444:
  445:
               {
  446:
                       if (dis(gen) > 0.5f) { i1 = 1.0; }
 447:
                       else { i1 = 0.0; }
                       if (dis(gen) > 0.5f) { i2 = 1.0; }
 448:
 449:
                       else { i2 = 0.0; }
 450:
                       if (dis(gen) > 0.5f) { i3 = 1.0; }
  451:
                       else { i3 = 0.0; }
 452:
                       if (i1 == 1.0 && i2 == 1.0 && i3 == 0.0)
 453:
 454:
 455:
                               01 = 1.0;
  456:
                               02 = -1.0;
 457:
                       }
                       else if (i1 == 0.0 && i2 == 0.0 && i3 == 1.0)
 458:
 459:
  460:
                               01 = 1.0;
                               02 = -1.0;
  461:
 462:
                       }
  463:
                       else
  464:
  465:
                               01 = -1.0;
  466:
                               02 = 1.0;
 467:
                       }
  468:
 469:
                       ComplexVect_t inputTemp;
  470:
                       inputTemp.push_back(Complex_t(i1, 0));
 471:
                       inputTemp.push_back(Complex_t(i2, 0));
 472:
                       inputTemp.push_back(Complex_t(i3, 0));
 473:
                       inputVect.push_back(inputTemp);
 474:
  475:
                       Predict_t outputTemp;
 476:
                       outputTemp.OutputNeurons.push_back(o1);
 477:
                       outputTemp.OutputNeurons.push_back(o2);
 478:
                       outputVect.push_back(outputTemp);
  479:
  480:
                       Predict_t outputPredictTemp;
  481:
                       outputPredictTemp.OutputNeurons = Test.Predict(inputTemp).OutputNeurons;
```

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 482:
  483:
                       for (uint32_t j = 0; j < outputTemp.OutputNeurons.size(); j++)</pre>
 484:
 485:
                               BOOST_CHECK_CLOSE(outputPredictTemp.OutputNeurons[j], outputTemp.OutputNeurons[j],
5);
 486:
                       }
               }
 487:
 488: }
 489:
 490: // Vision Test
 491:
 492: BOOST_FIXTURE_TEST_CASE(Vision_Convert_RGB_To_Intensity, M)
  493: {
  494:
               // Convert the RGB picture to an intensity picture
  495:
               Vision::Conversion Test;
 496:
               Test.Convert(src, dst, Vision::Conversion::RGB, Vision::Conversion::Intensity);
  497:
  498:
               // Read in the Matlab converted intensity picture converted with the Matlab command:
               // Matlab_int=0.2126*RGB(:,:,1)+0.7152*RGB(:,:,2)+0.0722*RGB(:,:,3);
  499:
  500:
               comp = imread("../ComparisionPictures/Matlab_int.ppm", 0);
  501:
  502:
               // Calculate the statistics of the two images
  503:
               ucharStat_t statDst(dst.data, dst.rows, dst.cols);
  504:
               ucharStat_t statComp(comp.data, comp.rows, comp.cols);
  505:
  506:
               // Simple comparison
  507:
               BOOST_CHECK_CLOSE(statDst.Mean, statComp.Mean, 0.5);
  508:
               BOOST_CHECK_CLOSE(statDst.Std, statComp.Std, 0.5);
 509:
               BOOST_CHECK_CLOSE((double)statDst.Range, (double)statComp.Range, 0.5);
 510:
               {\tt BOOST\_CHECK\_CLOSE((double)statDst.min, (double)statComp.min, 0.5);}
 511:
               BOOST_CHECK_CLOSE((double)statDst.max, (double)statComp.max, 0.5);
 512:
               BOOST_CHECK_CLOSE((double)statDst.Sum, (double)statComp.Sum, 0.5);
 513: }
 514:
 515: BOOST_FIXTURE_TEST_CASE(Vision_Convert_RGB_To_CIEXYZ, M)
 516: {
 517:
               // Convert the RGB to an CIElab
  518:
               Vision::Conversion Test;
 519:
               Test.Convert(src, dst, Vision::Conversion::RGB, Vision::Conversion::CIE_XYZ);
 520:
               vector<Mat> LAB = Test.extractChannel(dst);
 521:
 522:
               floatStat_t statDstX((float *)LAB[0].data, src.rows, src.cols);
  523:
               floatStat_t statCompX;
 524:
               statCompX.Std = X_STD;
               statCompX.n = N_MAT;
 525:
 526:
               statCompX.Mean = X_MEAN;
 527:
               statCompX.Range = X_RANGE;
  528:
               statCompX.min = X_MIN;
 529:
               statCompX.max = X_MAX;
 530:
               statCompX.Sum = X_SUM;
 531:
 532:
               // Simple comparison
  533:
               BOOST_CHECK_CLOSE(statDstX.Mean, statCompX.Mean, 0.5);
 534:
               BOOST_CHECK_CLOSE(statDstX.Std, statCompX.Std, 0.5);
 535:
               BOOST_CHECK_CLOSE((double)statDstX.Range, (double)statCompX.Range, 0.5);
 536:
               BOOST_CHECK_CLOSE((double)statDstX.min, (double)statCompX.min, 0.5);
 537:
               BOOST_CHECK_CLOSE((double)statDstX.max, (double)statCompX.max, 0.5);
  538:
               BOOST_CHECK_CLOSE((double)statDstX.Sum, (double)statCompX.Sum, 0.5);
 539:
               floatStat_t statDstY((float *)LAB[1].data, src.rows, src.cols);
 540:
 541:
               floatStat_t statCompY;
 542:
               statCompY.Std = Y_STD;
  543:
               statCompY.n = N_MAT;
 544:
               statCompY.Mean = Y_MEAN;
 545:
               statCompY.Range = Y_RANGE;
 546:
               statCompY.min = Y_MIN;
               statCompY.max = Y_MAX;
  547:
  548:
               statCompY.Sum = Y_SUM;
 549:
  550:
               // Simple comparison
 551:
               BOOST_CHECK_CLOSE(statDstY.Mean, statCompY.Mean, 0.5);
               BOOST_CHECK_CLOSE(statDstY.Std, statCompY.Std, 0.5);
  552:
  553:
               BOOST_CHECK_CLOSE((double)statDstY.Range, (double)statCompY.Range, 0.5);
 554:
               BOOST_CHECK_CLOSE((double)statDstY.min, (double)statCompY.min, 0.5);
 555:
               BOOST_CHECK_CLOSE((double)statDstY.max, (double)statCompY.max, 0.5);
 556:
               BOOST_CHECK_CLOSE((double)statDstY.Sum, (double)statCompY.Sum, 0.5);
  557:
               floatStat_t statDstZ((float *)LAB[2].data, src.rows, src.cols);
  558:
 559:
               floatStat_t statCompZ;
 560:
               statCompZ.Std = Z_STD;
               statCompZ.n = N_MAT;
  561:
  562:
               statCompZ.Mean = Z_MEAN;
  563:
               statCompZ.Range = Z_RANGE;
```

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              statCompZ.min = Z_MIN;
 565:
              statCompZ.max = Z_MAX;
 566:
              statCompZ.Sum = Z_SUM;
 567:
  568:
               // Simple comparison
              BOOST_CHECK_CLOSE(statDstZ.Mean, statCompZ.Mean, 0.5);
  569:
 570:
              {\tt BOOST\_CHECK\_CLOSE(statDstZ.Std, statCompZ.Std, 0.5);}
 571:
              BOOST_CHECK_CLOSE((double)statDstZ.Range, (double)statCompZ.Range, 0.5);
 572:
               {\tt BOOST\_CHECK\_CLOSE((double)statDstZ.min, (double)statCompZ.min, 0.5);}
 573:
               {\tt BOOST\_CHECK\_CLOSE((double)statDstZ.max, (double)statCompZ.max, 0.5);}
 574:
              BOOST_CHECK_CLOSE((double)statDstZ.Sum, (double)statCompZ.Sum, 0.5);
 575: }
 576:
  577: BOOST_FIXTURE_TEST_CASE(Vision_Convert_RGB_To_CIElab, M)
  578: {
  579:
               // Convert the RGB to an CIElab
 580:
              Vision::Conversion Test;
  581:
              Test.Convert(src, dst, Vision::Conversion::RGB, Vision::Conversion::CIE_lab);
  582:
              vector<Mat> LAB = Test.extractChannel(dst);
  583:
              floatStat_t statDstL((float *)LAB[0].data, src.rows, src.cols);
  584:
  585:
              floatStat_t statCompL;
  586:
              statCompL.Std = L_STD;
  587:
              statCompL.n = N_MAT;
  588:
              statCompL.Mean = L MEAN;
  589:
              statCompL.Range = L_RANGE;
  590:
              statCompL.min = L_MIN;
  591:
              statCompL.max = L_MAX;
  592:
              statCompL.Sum = L_SUM;
 593:
  594:
              // Simple comparison
  595:
              BOOST_CHECK_CLOSE(statDstL.Mean, statCompL.Mean, 0.5);
  596:
              BOOST_CHECK_CLOSE(statDstL.Std, statCompL.Std, 0.5);
  597:
              BOOST_CHECK_CLOSE((double)statDstL.Range, (double)statCompL.Range, 0.5);
              BOOST_CHECK_CLOSE((double)statDstL.min, (double)statCompL.min, 0.5);
  598:
  599:
              BOOST_CHECK_CLOSE((double)statDstL.max, (double)statCompL.max, 0.5);
  600:
              BOOST_CHECK_CLOSE((double)statDstL.Sum, (double)statCompL.Sum, 0.5);
  601:
 602:
              floatStat_t statDstA((float *)LAB[1].data, src.rows, src.cols);
 603:
              floatStat_t statCompA;
 604:
              statCompA.Std = A_STD;
  605:
              statCompA.n = N_MAT;
  606:
              statCompA.Mean = A_MEAN;
 607:
              statCompA.Range = A_RANGE;
 608:
              statCompA.min = A_MIN;
 609:
              statCompA.max = A_MAX;
  610:
              statCompA.Sum = A_SUM;
  611:
 612:
              // Simple comparison
 613:
              BOOST_CHECK_CLOSE(statDstA.Mean, statCompA.Mean, 0.5);
 614:
              BOOST_CHECK_CLOSE(statDstA.Std, statCompA.Std, 0.5);
  615:
              BOOST_CHECK_CLOSE((double)statDstA.Range, (double)statCompA.Range, 0.5);
  616:
              BOOST_CHECK_CLOSE((double)statDstA.min, (double)statCompA.min, 0.5);
 617:
              BOOST_CHECK_CLOSE((double)statDstA.max, (double)statCompA.max, 0.5);
              BOOST_CHECK_CLOSE((double)statDstA.Sum, (double)statCompA.Sum, 0.5);
 618:
 619:
  620:
              floatStat_t statDstB((float *)LAB[2].data, src.rows, src.cols);
  621:
              floatStat_t statCompB;
 622:
              statCompB.Std = B_STD;
              statCompB.n = N_MAT;
 623:
 624:
              statCompB.Mean = B_MEAN;
  625:
              statCompB.Range = B_RANGE;
 626:
              statCompB.min = B_MIN;
 627:
              statCompB.max = B MAX;
 628:
              statCompB.Sum = B_SUM;
 629:
  630:
              // Simple comparison
 631:
              BOOST_CHECK_CLOSE(statDstB.Mean, statCompB.Mean, 0.5);
              BOOST_CHECK_CLOSE(statDstB.Std, statCompB.Std, 0.5);
 632:
              BOOST_CHECK_CLOSE((double)statDstB.Range, (double)statCompB.Range, 0.5);
 633:
 634:
              BOOST_CHECK_CLOSE((double)statDstB.min, (double)statCompB.min, 0.5);
 635:
               BOOST_CHECK_CLOSE((double)statDstB.max, (double)statCompB.max, 0.5);
 636:
              BOOST_CHECK_CLOSE((double)statDstB.Sum, (double)statCompB.Sum, 0.5);
 637: }
 638:
 639: BOOST_FIXTURE_TEST_CASE(Vision_Convert_LAB_To_RI, M)
  640: {
 641:
               // Convert the RGB to an CIElab
 642:
              Vision::Conversion Test;
 643:
              Test.Convert(src, src, Vision::Conversion::RGB, Vision::Conversion::CIE_lab);
 644:
  645:
              Test.Convert(src, dst, Vision::Conversion::CIE_lab, Vision::Conversion::RI);
```

646:

```
./VSA_UT/VSA_UT.cpp
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               floatStat_t statDstRI((float *)dst.data, src.rows, src.cols);
  648:
               floatStat_t statCompRI;
  649:
               statCompRI.Std = RI_STD;
  650:
               statCompRI.n = N_MAT;
  651:
               statCompRI.Mean = RI_MEAN;
              statCompRI.Range = RI_RANGE;
  652:
               statCompRI.min = RI_MIN;
  653:
  654:
               statCompRI.max = RI_MAX;
               statCompRI.Sum = RI_SUM;
  655:
  656:
  657:
               // Simple comparison
               BOOST_CHECK_CLOSE(statDstRI.Mean, statCompRI.Mean, 1.25);
  658:
  659:
               BOOST_CHECK_CLOSE(statDstRI.Std, statCompRI.Std, 1.25);
  660:
               BOOST_CHECK_CLOSE((double)statDstRI.Range, (double)statCompRI.Range, 1.25);
  661:
               BOOST_CHECK_CLOSE((double)statDstRI.min, (double)statCompRI.min, 1.25);
  662:
               BOOST_CHECK_CLOSE((double)statDstRI.max, (double)statCompRI.max, 1.25);
               BOOST_CHECK_CLOSE((double)statDstRI.Sum, (double)statCompRI.Sum, 1.25);
  663:
  664: }
  665:
  666: BOOST_AUTO_TEST_CASE(Vision_CopyMat_3_Uchar_Channel_With_Mask)
  667: {
  668:
              Mat RGB_crop = imread("../ComparisionPictures/RGB_crop.ppm", 1);
  669:
               Mat mask = imread("../ComparisionPictures/mask.ppm", 0);
  670:
              Mat RGB_res = imread("../ComparisionPictures/RGB_res.ppm", 1);
  671:
              Mat copiedMat = Vision::ImageProcessing::CopyMat<uchar>(RGB_crop, mask, CV_8UC1);
  672:
  673:
  674:
              BOOST_CHECK_EQUAL_COLLECTIONS(copiedMat.begin<cv::Vec3b>(), copiedMat.end<cv::Vec3b>(), RGB_res.beg
in<cv::Vec3b>(), RGB_res.end<cv::Vec3b>());
              cv::imwrite("Copy_with_Mask.ppm", copiedMat);
  675:
  676: }
  677:
  678: BOOST_AUTO_TEST_CASE(Vision_CopyMat_1_Uchar_Channel_With_Mask)
  679: {
  680:
              Mat Int = imread("../ComparisionPictures/RGB_crop.ppm", 0);
              Mat mask = imread("../ComparisionPictures/mask.ppm", 0);
  681:
  682:
              Mat Int_res = imread("../ComparisionPictures/RGB_res.ppm", 0);
  683:
  684:
              Mat copiedMat = Vision::ImageProcessing::CopyMat<uchar>(Int, mask, CV_8UC1);
  685:
  686:
              BOOST_CHECK_EQUAL_COLLECTIONS(copiedMat.begin<uchar>(), copiedMat.end<uchar>(), Int_res.begin<uchar
>(), Int_res.end<uchar>());
  687:
              cv::imwrite("Copy_with_Mask.ppm", copiedMat);
 688: }
  689:
  690: BOOST_AUTO_TEST_CASE(Vision_CopyMat_1_Float_Channel_With_Mask)
  691: {
  692:
              Mat floatTest = (Mat < float > (5, 5) < 0.1, 0.2, 0.3, 0.4, 0.5)
  693:
                                                                                                1.1, 1.2, 1.3, 1.4,
1.5.
  694:
                                                                                                2.1, 2.2, 2.3, 2.4,
2.5,
  695:
                                                                                                 3.1, 3.2, 3.3, 3.4,
3.5.
 696:
                                                                                                 4.1, 4.2, 4.3, 4.4,
4.5,
  697:
                                                                                                 5.1, 5.2, 5.3, 5.4,
5.5);
  698:
              Mat mask = (Mat_<float>(5, 5) <<</pre>
  699:
                                                              0, 0, 0, 0, 0,
  700:
                                                                                                0, 1, 1, 0, 0,
  701:
                                                                                                1, 1, 1, 1, 0,
  702:
                                                                                                0, 0, 0, 1, 1,
  703:
                                                                                                0, 0, 0, 0, 0,
  704:
                                                                                                0, 0, 0, 0, 0);
  705:
  706:
              Mat floatres = (Mat_<float>(5, 5) << 0, 0, 0, 0, 0,
  707:
                                                                                                 0, 1.2, 1.3,0, 0,
                                                                                                2.1, 2.2, 2.3, 2.4,
  708:
  709:
                                                                                                0, 0, 0, 3.4, 3.5,
  710:
                                                                                                 0, 0, 0, 0, 0,
  711:
                                                                                                0, 0, 0, 0, 0);
              Mat copiedMat = Vision::ImageProcessing::CopyMat<float>(floatTest, mask, CV_32F);
  712:
 713:
              BOOST_CHECK_EQUAL_COLLECTIONS(copiedMat.begin<float>(), copiedMat.end<float>(), floatres.begin<float
t>(), floatres.end<float>());
 714: }
  715:
  716: BOOST_AUTO_TEST_CASE(Vision_CopyMat_With_LUT)
  717: {
  718:
               Mat BW_res = imread(".../ComparisionPictures/mask.ppm", 0);
           Mat Label = imread("../ComparisionPictures/label.ppm", 0);
  719:
```

720:

uint8_t *LUT = new uint8_t[300]{};

```
./VSA_UT/VSA_UT.cpp
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                                                                                                                10
   721:
                      LUT[255] = 1;
   722:
   723:
                       Mat copiedMat = Vision::ImageProcessing::CopyMat<uint8_t, uint8_t>(Label, LUT, CV_8UC1);
   724:
                       imwrite("copiedMat.ppm", copiedMat);
   725:
                       BOOST_CHECK_EQUAL_COLLECTIONS(copiedMat.data, copiedMat.data + (copiedMat.rows * copiedMat.cols), B
W_res.data, BW_res.data + (BW_res.rows * BW_res.cols));
   726:
                       delete[] LUT;
   727: }
   728:
   729: BOOST_AUTO_TEST_CASE(Vision_RemoveBorder)
   730: {
   731:
                       cv::Mat Border = imread("../ComparisionPictures/Border.ppm", 0);
   732:
                       cv::Mat noBorderComp = imread("../ComparisionPictures/noBorder.ppm", 0);
   733:
   734:
                       Vision::Segment Test(Border);
   735:
                       Test.RemoveBorderBlobs(1);
   736:
                       imwrite("noBorder.ppm", Test.ProcessedImg);
   737:
                       {\tt BOOST\_CHECK\_EQUAL\_COLLECTIONS(Test.ProcessedImg.data, Test.ProcessedImg.data + (Test.ProcessedImg.rational CollectImg.data)} \\
ows * Test.ProcessedImg.cols), noBorderComp.data, noBorderComp.data + (noBorderComp.rows * noBorderComp.cols));
   738: }
   739:
   740: BOOST_AUTO_TEST_CASE(Vision_RemoveBorder_Chain_Event)
   741: {
   742:
                       cv::Mat Border = imread("../ComparisionPictures/Border.ppm", 0);
   743:
                       cv::Mat noBorderComp = imread("../ComparisionPictures/noBorder.ppm", 0);
                       Border *= 255;
   744:
   745:
   746:
                       Vision::Segment Test(Border);
   747:
                       Test.ConvertToBW(Vision::Segment::Bright);
   748:
                       Test.FillHoles(true);
   749:
                       Test.RemoveBorderBlobs(1, true);
   750:
                       imwrite("noBorder.ppm", Test.ProcessedImg);
   751:
                       BOOST_CHECK_EQUAL_COLLECTIONS(Test.ProcessedImg.data, Test.ProcessedImg.data + (Test.ProcessedImg.r
ows * Test.ProcessedImg.cols), noBorderComp.data, noBorderComp.data + (noBorderComp.rows * noBorderComp.cols));
   752: }
   753:
   754: BOOST_AUTO_TEST_CASE(Vision_MorphologicalFilter_Erode)
   755: {
   756:
                 cv::Mat FilterImg = imread("../ComparisionPictures/FilterImg.ppm", 0);
   757:
                 cv::Mat ErosionComp = imread("../ComparisionPictures/erodedResult.ppm", 0);
   758:
                       Mat mask = imread("../ComparisionPictures/MorphMask.ppm", 0);
   759:
                       Vision::MorphologicalFilter Test(FilterImg);
   760:
                       Test.Erosion(mask);
   761:
   762:
                       BOOST_CHECK_EQUAL_COLLECTIONS(Test.ProcessedImg.begin<uchar>(), Test.ProcessedImg.end<uchar>(), Ero
sionComp.begin<uchar>(), ErosionComp.end<uchar>());
   763: }
   764:
   765: BOOST_AUTO_TEST_CASE(Vision_MorphologicalFilter_Dilate)
   766: {
   767:
                       cv::Mat FilterImg = imread(".../ComparisionPictures/FilterImg.ppm", 0);
   768:
                 cv::Mat DilateComp = imread("../ComparisionPictures/DilatedResult.ppm", 0);
   769:
                      Mat mask = imread("../ComparisionPictures/MorphMask.ppm", 0);
   770:
                       Vision::MorphologicalFilter Test(FilterImg);
   771:
                       Test.Dilation(mask);
   772:
   773:
                       BOOST_CHECK_EQUAL_COLLECTIONS(Test.ProcessedImg.begin<uchar>(), Test.ProcessedImg.end<uchar>(), Dil
ateComp.begin<uchar>(), DilateComp.end<uchar>());
   774: }
   775:
   776: BOOST_AUTO_TEST_CASE(Vision_MorphologicalFilter_Open)
   777: {
   778:
                       cv::Mat FilterImg = imread("../ComparisionPictures/FilterImg.ppm", 0);
                       cv::Mat OpenComp = imread("../ComparisionPictures/openResult.ppm", 0);
   779:
                Mat mask = imread("../ComparisionPictures/MorphMask.ppm", 0);
   780:
   781:
                       Vision::MorphologicalFilter Test(FilterImg);
   782:
                       Test.Open(mask);
   783:
   784:
                      BOOST_CHECK_EQUAL_COLLECTIONS(Test.ProcessedImg.begin<uchar>(), Test.ProcessedImg.end<uchar>(), Ope
nComp.begin<uchar>(), OpenComp.end<uchar>());
   785: }
   786:
   787: BOOST_AUTO_TEST_CASE(Vision_MorphologicalFilter_Close)
   788: {
   789:
                       cv::Mat FilterImg = imread(".../ComparisionPictures/FilterImg.ppm", 0);
   790:
                       cv::Mat CloseComp = imread("../ComparisionPictures/closeResult.ppm", 0);
                       Mat mask = imread("../ComparisionPictures/MorphMask.ppm", 0);
   791:
   792:
                       Vision::MorphologicalFilter Test(FilterImg);
   793:
                       Test.Close(mask);
   794:
                       {\tt BOOST\_CHECK\_EQUAL\_COLLECTIONS(Test.ProcessedImg.begin < char>(), Test.ProcessedImg.end < char>(), Clouding (), Test.ProcessedImg.end < characteristics (), Test.ProcessedImg.end < charac
seComp.begin<uchar>(), CloseComp.end<uchar>());
   795: }
   796:
```

```
797: BOOST_AUTO_TEST_CASE(Vision_Segment_GetEdgesByErosion)
  798: {
                cv::Mat BlobImg = imread("../ComparisionPictures/FilterImg.ppm", 0);
  799:
  800:
                cv::Mat EdgeComp = imread("../ComparisionPictures/BlobTestEdgeResult.ppm", 0);
  801:
  802:
               Vision::Segment Test(BlobImg);
               Test.GetEdgesEroding();
  803:
  804:
               BOOST_CHECK_EQUAL_COLLECTIONS(Test.ProcessedImg.begin<uchar>(), Test.ProcessedImg.end<uchar>(), Edg
eComp.begin<uchar>(), EdgeComp.end<uchar>());
  805: }
  806:
  807: // Soil Test
  808:
  809: BOOST_FIXTURE_TEST_CASE(Soil_Particle_Analyze, M)
  810: {
  811:
               SoilMath::NN nn;
           nn.LoadState("../ComparisionPictures/NN_Test.xml");
  812:
  813:
  814:
               SoilAnalyzer::Sample Test(src);
  815:
               Test.Analyse(nn);
  816:
  817:
               std::string filename = "SoilSample.vsa";
  818:
               Test.Save(filename);
  819:
  820:
               imwrite("BW.ppm", Test.BW);
  821: //
               imwrite("Edge.ppm", Test.Edge);
  222:
  823:
               //uint32_t i = 0;
  824:
               //for_each(Test.Population.begin(), Test.Population.end(), [&](SoilAnalyzer::Particle &p)
  825:
               //{
  826:
                        stringstream ss_edge;
  827:
                        stringstream ss_RGB;
                        ss_edge << i << "_edge.ppm";
ss_RGB << i << "_RGB.ppm";</pre>
  828:
  829:
  830:
                        imwrite(ss_edge.str(), p.Edge);
  831:
                        imwrite(ss_RGB.str(), p.RGB);
                //});
  832:
  833: }
  834:
  835: BOOST_FIXTURE_TEST_CASE(Soil_Sample_Save_And_Load, M)
  836: {
  837:
               SoilAnalyzer::Sample Test(src);
  838:
                std::string filename = "SoilSample.vsa";
               Test.Save(filename);
  839:
  840:
  841:
               SoilAnalyzer::Sample TestLoad;
  842:
               TestLoad.Load(filename);
  843:
  844:
               BOOST_CHECK_EQUAL_COLLECTIONS(Test.OriginalImage.data, Test.OriginalImage.data + 1000, TestLoad.Ori
ginalImage.data, TestLoad.OriginalImage.data + 1000);
  845: }
  846:
  847: BOOST_FIXTURE_TEST_CASE(Soil_Sample_Analyze, M)
  848: {
  849:
               //SoilAnalvzer::Sample Test(src);
  850:
               //Test.Analyse();
  851:
  852:
               //imwrite("A_BW.ppm", Test.BW);
               //imwrite("A_Edge.ppm", Test.Edge);
//imwrite("A_Int.ppm", Test.Intensity);
  853:
  854:
  855:
               //for (uint32_t i = 0; i < Test.Population.size(); i++)</pre>
  856:
  857:
               //{
  858:
                        std::stringstream ss;
  859:
                        ss << i << "_BW.ppm";
  860:
                        imwrite(ss.str(), Test.Population[i].BW);
  861:
                        std::stringstream sss:
  862:
                        sss << i << "_Edge.ppm";
  863:
                        imwrite(sss.str(), Test.Population[i].Edge);
  864:
                        std::stringstream ssss;
                        ssss << i << "_RGB.ppm";
  865:
                        imwrite(ssss.str(), Test.Population[i].RGB);
  866:
  867:
  868: }
  869:
```

```
1: /* Copyright (C) Jelle Spijker - All Rights Reserved
           * Unauthorized copying of this file, via any medium is strictly prohibited
           * and only allowed with the written consent of the author (Jelle Spijker)
      4: * This software is proprietary and confidential
           * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
      7:
      8:
      9:
    10: #include <stdint.h>
    11: #include <cstdlib>
    12:
    13: using namespace std;
    14:
    15: const double meanTestResult = 127.445198;
    16: const uint8 t mediaanTestResult = 128;
    17: const double stdTestResult = 73.5821;
    18: const uint32_t nTestResult = 40000;
    19: const uint8_t modeTestResult = 173;
     20: const uint8_t rangeTestResult = 255;
    21: const uint32_t sumTestResult = 5097808;
    22: const uint8_t minTestResult = 0;
     23: const uint8_t maxTestResult = 255;
    25: const uint8_t histTestResult[256] =
    26: { 89, 139, 157, 150, 165, 149, 146, 166, 147, 164, 144, 128, 153, 162, 182, 164, 160, 167, 142, 171, 148, 1
58, 173, 181, 170, 154, 156, 161, 167, 138, 154, 148, 162, 167, 172, 148, 146, 169, 149, 183, 150, 166, 179, 143,
148, 141, 148, 140, 171, 153, 155, 150, 152, 162, 140, 167, 167, 131, 163, 163, 153, 161, 157, 163, 149, 149, 174,
 144, 155, 162, 164, 141, 168, 159, 146, 162, 165, 168, 151, 151, 159, 148, 151, 184, 166, 161, 162, 144, 148, 154
, 149, 150, 161, 154, 156, 156, 178, 178, 179, 167, 143, 150, 168, 145, 154, 154, 165, 148, 155, 136, 163, 156, 17
6, 164, 155, 141, 154, 153, 149, 153, 156, 135, 139, 129, 152, 172, 130, 171, 165, 157, 148, 152, 152, 173, 135, 1
56, 174, 143, 156, 176, 150, 158, 165, 164, 135, 166, 158, 151, 132, 169, 162, 147, 169, 154, 159, 172, 159, 169,
151, 155, 172, 166, 147, 155, 154, 149, 167, 160, 161, 170, 175, 168, 160, 185, 167, 166, 134, 165, 140, 166, 141,
 160, 134, 168, 150, 151, 168, 172, 135, 136, 153, 161, 170, 167, 138, 167, 160, 151, 176, 181, 164, 148, 152, 150
, 167, 151, 152, 163, 151, 133, 138, 147, 174, 151, 150, 155, 149, 158, 159, 171, 163, 164, 144, 145, 164, 149, 17
5, 157, 169, 163, 155, 164, 169, 177, 142, 158, 145, 160, 163, 162, 151, 162, 172, 148, 172, 162, 140, 135, 168, 1
43, 134, 156, 155, 148, 148, 86 };
     27:
     28: const uint8_t testMatrix[200][200] =
 29: { { 208, 164, 108, 217, 174, 161, 128, 128, 171, 51, 190, 14, 208, 13, 124, 97, 63, 183, 234, 161, 109, 32, 190, 75, 114, 43, 112, 77, 191, 155, 59, 139, 126, 85, 166, 197, 230, 85, 5, 86, 173, 4, 171, 159, 240, 225, 24,
106, 215, 168, 39, 163, 152, 211, 208, 105, 34, 213, 242, 205, 148, 31, 71, 110, 161, 60, 161, 24, 163, 56, 87, 24
8, 227, 190, 168, 73, 140, 158, 217, 230, 248, 89, 166, 47, 21, 10, 230, 29, 60, 222, 189, 186, 33, 53, 122, 154,
87, 81, 254, 83, 111, 106, 178, 243, 177, 94, 48, 85, 42, 33, 26, 144, 2, 37, 80, 98, 102, 193, 215, 62, 166, 234,
212, 41, 41, 167, 64, 178, 80, 146, 107, 194, 143, 187, 135, 172, 187, 37, 2, 105, 249, 206, 67, 53, 39, 48, 17, 200, 54, 183, 210, 51, 72, 144, 212, 74, 107, 238, 95, 56, 172, 248, 136, 143, 59, 87, 91, 128, 5, 56, 19, 177, 22
0, 6, 136, 127, 119, 177, 187, 138, 29, 96, 75, 151, 214, 248, 78, 224, 96, 43, 179, 122, 178, 184, 214, 66, 48, 2
41, 86, 13
                },
    30: { 231, 97, 24, 143, 34, 91, 125, 156, 110, 50, 228, 208, 48, 139, 127, 81, 99, 34, 154, 251, 244, 93, 214,
7, 166, 190, 82, 155, 124, 197, 189, 140, 155, 52, 37, 175, 101, 252, 186, 110, 124, 174, 15, 232, 217, 131, 51, 0, 58, 30, 245, 179, 136, 154, 180, 4, 194, 98, 3, 205, 18, 251, 92, 86, 131, 250, 37, 112, 78, 200, 228, 36, 80,
75, 45, 237, 199, 111, 180, 133, 148, 69, 156, 126, 214, 211, 18, 187, 70, 225, 68, 138, 125, 20, 236, 55, 214, 20
7, 46, 191, 0, 69, 58, 120, 75, 216, 27, 150, 203, 139, 82, 139, 118, 112, 147, 40, 13, 21, 173, 43, 228, 90, 236,
59, 235, 170, 153, 134, 105, 134, 168, 23, 222, 192, 68, 75, 172, 214, 93, 138, 21, 203, 94, 98, 59, 173, 130, 182, 110, 161, 23, 0, 187, 162, 80, 121, 169, 6, 254, 124, 98, 165, 101, 121, 238, 168, 177, 194, 111, 208, 195, 127, 25, 191, 10, 98, 234, 220, 194, 158, 175, 252, 12, 173, 204, 80, 83, 245, 85, 169, 201, 188, 91, 152, 99, 240, 1
4, 171, 118, 79 },
    31: { 32, 207, 153, 237, 184, 254, 224, 209, 177, 83, 62, 135, 32, 241, 239, 251, 110, 114, 179, 162, 185,
 67, 24, 43, 122, 34, 71, 98, 14, 227, 177, 1, 126, 177, 221, 177, 121, 208, 202, 9, 224, 98, 155, 35, 96, 155, 80
 , 109, 33, 223, 220, 85, 209, 147, 191, 157, 2, 43, 224, 95, 151, 199, 116, 142, 240, 144, 80, 30, 74, 129, 219, 7
2, 47, 160, 204, 143, 106, 109, 41, 247, 190, 223, 86, 89, 7, 251, 227, 35, 87, 62, 161, 214, 149, 138, 172, 161,
26, 117, 57, 56, 186, 204, 180, 49, 70, 240, 205, 16, 84, 186, 248, 30, 116, 31, 164, 81, 131, 235, 164, 115, 17,
210, 42, 27, 128, 62, 160, 131, 65, 107, 174, 56, 16, 49, 36, 253, 33, 176, 247, 109, 29, 43, 202, 213, 91, 141, 1
70, 110, 146, 53, 207, 145, 175, 138, 156, 50, 200, 163, 72, 222, 245, 152, 50, 114, 95, 237, 144, 13, 145, 123, 5
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```
1: /* Copyright (C) Jelle Spijker - All Rights Reserved
                                      * Unauthorized copying of this file, via any medium is strictly prohibited
                    3: * and only allowed with the written consent of the author (Jelle Spijker)
                    4: * This software is proprietary and confidential
                                     * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
                    7:
                    8:
                   9:
               10: #include <stdint.h>
               11: #include <cstdlib>
               12:
               13: using namespace std;
               14:
               15: const double fmeanTestResult = 0.00739355106;
               16: const float fmediaanTestResult = 0.0172;
               17: const double fstdTestResult = 0.9935;
               18: const uint32_t fnTestResult = 2500;
               19: const float fmodeTestResult = -3.2320;
                20: const float frangeTestResult = 6.8104;
               21: const float fsumTestResult = 18.4839;
               22: const float fminTestResult = -3.2320;
               23: const float fmaxTestResult = 3.5784;
               25: const uint32_t fhistTestResult[256] =
               , 4, 2, 2, 5, 2, 4, 3, 4, 2, 3, 5, 4, 4, 6, 2, 6, 9, 1, 3, 7, 3, 5, 5, 4, 12, 5, 9, 12, 11, 9, 8, 7, 13, 8, 10, 15, 4, 11, 8, 11, 12, 18, 14, 15, 12, 20, 13, 13, 16, 19, 20, 20, 18, 24, 22, 21, 19, 13, 14, 18, 24, 15, 25, 25, 19
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 , 0,
                     1, 0, 1, 1, 0, 1, 0, 0, 0, 0, 1, 0, 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 0, 1, 2};
                28: const float ftestMatrix[50][50] =
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Sun Jun 07 11:35:54 2015
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 $68: \{ -1.71151641885370, -1.16584393148205, -0.299066030332982, -0.0678655535426873, 1.24244840639074, -1.61183038867781, 0.441326931727609, 0.319949134382331, -0.326814228785906, 0.439997904822629, -0.140321722056366, -0.009814918438231, -0.326814228785906, 0.439997904822629, -0.140321722056366, -0.00981491848818, -0.00981491848818, -0.00981491848818, -0.00981491848818, -0.00981491848818, -0.00981491848818, -0.00981491848818, -0.00981491848818, -0.00981491848, -0.0098148818, -0.00981488818, -0.0098148818, -0.009814888188818, -0.00981488188, -0.0098148818, -0.0098148818, -0.00981488188818, -0.0098148818, -0.0098$ $1245666352581, \\ -0.938247210627779, \\ -1.76841403231106, \\ 2.75255787759549, \\ 0.790683469747323, \\ 0.112439710593741, \\ -1.6641403231106, \\ 0.75255787759549, \\ 0.790683469747323, \\ 0.112439710593741, \\ -1.6641403231106, \\ 0.75255787759549, \\ 0.790683469747323, \\ 0.112439710593741, \\ -1.6641403231106, \\ 0.7525787759549, \\ 0.790683469747323, \\ 0.112439710593741, \\ -1.6641403231106, \\ 0.7525787759549, \\ 0.790683469747323, \\ 0.79068346974732, \\ 0.79068346974732, \\ 0.79068346974732, \\ 0.7906834697473, \\ 0.7906834743, \\ 0.7906834743, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.79068344, \\ 0.790683474, \\ 0.7906834, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.790683474, \\ 0.79068474, \\ 0.79068474, \\ 0.79068474, \\ 0.79068474, \\ 0.79068474, \\ 0.$ $-2.07681148516310,\ 0.154120187534393,\ -0.613171560234073,\ -1.17189080414528,\ 0.528265783681366,\ -1.32563829453186,\ -1.$, -0.116771141304530, 0.0845369570761526, 0.349156337155410 },

69: { -0.102242446085491, -1.14795277889859, 0.0228897927516298, -0.195221197898754, -1.06670139898475, -0.0244 619366359185, -1.39813787581107, -0.558294284850904, 0.812323004640796, -0.616865928889227, 0.899822328897224, -0.689810537631710, -0.990532220484176, 0.0780200809780775, -0.571773218349456, -1.42447009141638, 1.38449851135426, $-0.414658917455486,\ 1.67421595177913,\ -0.422919535898430,\ 0.138317724815553,\ -0.116571328658856,\ -0.30862493454702$ $96113,\ 0.0759474321256630,\ -1.27813736919090,\ 0.441056579174584,\ 1.04368893647872,\ -0.854353379120009,\ 0.219453518$ 57882848501, -0.648296910104249, -0.574514061258489, 1.85928030068645 },

66699153601164, -1.17303232726741, 1.32438544916022, -0.250032278035044, 0.717442315507358, -0.0627267940412559, 1.266699153601164, -1.17303232726741, 1.32438544916022, -0.250032278035044, 0.717442315507358, -0.0627267940412559, 1.266699153601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.2666915601164, -0.26669164, -0.26669164, -0.26669164, -0.26669164, -0.26669164, -0.26669160164, -0.26669164 $.91218083836386,\ 0.124988173845023,\ -1.05310242919018,\ -1.90706620837312,\ 0.553089887878288,\ 0.456659609115151,\ -0.6669116181,\ -0.6669118181,\ -0.6669116181,\ -0.66691181,\ -0.66691181,\ -0.66691181,\ -0.66691181,\ -0.66691181,\$ $.654768851858015, \ -1.44493941921490, \ -0.473237143331362, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.720160379657291, \ 0.458445379977201, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.720160379657291, \ 0.265654717978835, \ -0.72016037967791, \ -0.72016037967791, \ -0.72016037967791, \ -0.72016037967791, \ -0.72016037967791, \ -0.72016037967791, \ -0.72016037967791, \ -0.72016037967791, \ -0.72016037967791, \ -0.7201603$ $-0.918769644159625, \ -0.584593101281239, \ -0.204764248303628, \ 0.802184648027535, \ 0.357318588185117, \ -0.114877251919,$ 321, -1.71287908652886, 0.683236637724418, -0.702264007180178, -0.376554951987101, -0.215161246502892, 1.127442346 333062860, -0.0379812048876393, 0.499750630743405, 0.927071973161696 },

79: 80:

 $\begin{array}{l} 1165126, & -1.72542778952869, & -0.213170486421586, & -1.56931547034070, & -0.777905520185398, & 0.448921120019170, & -0.390898732233772, & 0.530101256550695, & 0.647755244971729, & -0.364992993373478, & -0.960644804719149, & -0.275100830567669, & -0.296348315406598, & -0.967693807707260, & 2.18424078685721, & 0.0406571736321824, & 1.75528863174444, & -0.235105530923257, & -1.91946652982324, & -0.619405664233413, & -0.977806928725783, & -0.468824364835627, & 2.74846655587521, & 0.0686024694830988, & -0.459894542126372, & -0.882136223226941, & 0.501327534308470, & 0.788010405046767, & 0.473489692098451, & 0.141571167263054, & 0.156533803692640, & 1.00758668596220, & 0.378179296887144, & 0.852969530087173, & 1.61476126691229, & 0.306391425649500, & -0.199324818772115, & -0.484104482611851, & -1.22696384381571 \end{array} \right\},$

 $72: \left\{\begin{array}{llll} 0.312858596637428, & 2.58549125261624, & -0.285650971595330, & 0.0230456244251053, & -0.0290057637087263, & 0.861716302393419, & 0.747734028808123, & -1.02573361562871, & 0.397466995795309, & 0.0923079512389623, & -0.345065971567321, & 0.11349436226868, & 0.288228089665011, & -0.134478644555426, & -0.477382663694067, & 0.315985880708604, & -0.363258472467672, & 0.409182082547355, & -0.952068223401487, & -0.317628188513513, & -0.848110011574821, & -1.63380239579279, & 0.443143608783787, & -1.49691887644755, & 0.202051338217512, & 0.809881106272956, & -0.658981428583564, & 0.931490591541562, & 1.87729222495920, & -0.0364431430103087, & 0.535301045844483, & -1.57294658745839, & -0.0465923743265948, & -1.51297699352819, & 0.751494856970, & -0.0465923743265948, & -1.51297699352819, & 0.751494856970, & -0.850225794307347, & 0.113520280110208, & -1.11534259600817, & 0.477331178676579, & -0.815854961856177, & -0.939160465318, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & 0.238445635648528, & -0.327239140494225, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669872015693, & -0.881669$

 $73: \left\{ \begin{array}{llll} -0.864879917324457, & -0.666890670701386, & -0.831366511567624, & 0.0512903558487747, & 0.182452167505983, & 0.00116208348351385, & -0.273046949402907, & -0.908745586874325, & -0.751894738681892, & 1.72984139157236, & 1.01280186426298, & 0.3862846165994, & -1.59418372026681, & -1.17135581792030, & -1.33797665356226, & 1.40653513807679, & -1.02058339313102, & -1.18242816812144, & 0.854042818220478, & 1.76899156918657, & -0.764753364521138, & 0.761200281866834, & -0.134765126722850, & -0.804834447327702, & -0.347877973085105, & 0.716342804277267, & -0.630515032828478, & 0.825264441429846, & 0.609239402441208, & -1.22512571743544, & 0.482987052893212, & -0.370261565518122, & 0.353453034782426, & 0.433979032773600, & -0.689427057923177, & -0.163880256756727, & 0.433139398845963, & 0.990750986531975, & -0.163741836804853, & -1.63780371606913, & 0.6706379095533, & 0.279045918708163, & 0.730050867444302, & 0.667241351746618, & 0.302320074946896, & -1.99775912436652, & 1.2374021264301, & -0.0561440709069334, & 0.778248191474934, & 0.891646400708002 \end{array} \right\},$

 $75: \left\{ \begin{array}{llll} -0.164879019209038, & -0.0824944253709554, & -1.15640165566400, & 1.52697668673337, & -0.0845394798177242, & -2.48628392070328, & -0.480937151778845, & -1.69886408417261, & -0.0325665091944807, & -0.737059771697806, & -0.213015082641055, & 0.180257693987047, & 0.787066676357980, & 0.310508318600499, & 0.853086767518578, & 0.929660284419656, & 0.626278997699139, & -1.16872284991455, & -1.15600108495170, & 0.164010316907443, & 0.0781888950833453, & 1.63205721592088, & 0.460789425007212, & -0.725798166048959, & 1.34115381887992, & 0.433986613232231, & 0.782334970498853, & -0.534204178984686, & 0.277457471578041, & -0.274574741578041, & -0.274574741578041, & -0.274574741578041, & -0.274574741578041, & -0.274574741578041,$

 $77: \left\{ \begin{array}{llll} 1.09326566903948, & -0.438966153934773, & -2.00263573588306, & -0.209713338388737, & 0.0983477746401080, & -2.19243491996591, & 0.664734120627595, & -0.117798289267962, & -0.425058490610031, & 0.910482579647112, & -1.04310830133763, & 0.682964276111937, & 0.0931087600588035, & 0.503744055737328, & -0.700620213418206, & 0.661536244123409, & -0.197342906850919, & 1.30183950434961, & -0.450598603707587, & 1.15216580794839, & -0.715847393133824, & -1.33685240472023, & 0.451874567380709, & -0.421846780441972, & 0.875135601991687, & -1.09224451734164, & 0.302407416537707, & -0.100647949072058, & 0.173593051437428, & 0.403880739292361, & 0.00532168979485395, & -1.09541491865986, & 0.0776686794320303, & 0.497899500583305, & -0.941791969061035, & -1.35155634252200, & -1.18212703394540, & 0.0483900176597465, & -1.35010016594322, & -0.126011360116434, & -0.398163107155880, & -1.28940788194516, & 1.01414104094213, & 0.618953085869227, & 0.541608366255458, & -0.847371160164792, & 0.75416580828282410, & -0.414907279235850, & 1.85120493279698, & -1.55186406853224 \right\},$

 $78: \left\{\begin{array}{llll} 1.10927329761440, & -1.79467884145512, & 0.964229422631628, & 0.625190357087626, & 0.0413736134896147, & -2.3192803 \\ 0.064330, & 0.0851885927211602, & 0.699160333644167, & 0.589433366718221, & 0.867082552947325, & -0.270068812648099, & 1.170608 \\ 0.03560, & -0.378157056589758, & -0.892661403477038, & -1.63054289274725, & 2.13850225382851, & 0.405605372640549, & -0.59364 \\ 1761840396, & 0.109247941665665, & -1.14650763211670, & -0.280515661741481, & -1.47384649800853, & 1.64838365704617, & -0.9426 \\ 0.03542880616, & 1.39544988693277, & -0.225794451802544, & 0.0583198538886379, & -1.62504844947823, & 0.453591153371088, & 1.192 \\ 0.0354280616, & 1.3914949095078, & 0.549233489827528, & 1.79093025896060, & 2.31562610334450, & -0.652861505816215, & 0.364211 \\ 0.05636417288340, & 0.583847690104213, & -0.664853402867584, & -1.16224097904506, & 0.299580407299929, & -0.0854625512885032, & 0.6575636417288340, & -0.0843484107867966, & 1.80306351071647, & -0.821128258718891, & 1.33723804312817, & 1.52449750573379, & -0.658616762511396, & -1.89766476744468, & 0.444083312031626 \end{array}\right\};$

```
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5: * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
 6: */
 7:
8:
9:
10: // Comparison values
11: #define N_MAT 3145728
12:
13: #define L_STD 5.028381605997681
14: #define L_MEAN 80.890745699097508
15: #define L_RANGE 79.936077729332197
16: #define L_MIN 16.742040567344091
17: #define L_MAX 96.678118296676288
18: #define L_SUM 2.544602836865306e8
19:
20: #define A_STD 0.866299119209983
21: #define A MEAN -3.380512963778564
22: #define A_RANGE 28.974365656143501
23: #define A_MIN -21.293453236190196
24: #define A_MAX 7.680912419953306
25: #define A_SUM -0.106341742845212e8
26:
27: #define B_STD 1.582722966505156
28: #define B_MEAN -14.069966616731605
29: #define B_RANGE 52.152618100375619
30: #define B_MIN -49.577771326645184
31: #define B_MAX 2.574846773730433
32: #define B_SUM -0.442602879453179e8
33:
34: #define X_STD 0.063845026292892
35: #define X_MEAN 0.544538411135235
36: #define X_RANGE 0.783231866666667
37: #define X_MIN 0.019708690196078
38: #define X_MAX 0.802940556862745
39: #define X_SUM 1.712969726983621e6
40:
41: #define Y_STD 0.068325856701040
42: #define Y_MEAN 0.586997317935942
43: #define Y_RANGE 0.894038392156863
44: #define Y_MIN 0.022487607843137
45: #define Y_MAX 0.916526000000000
46: #define Y_SUM 1.846533898955995e6
47:
48: #define Z_STD 0.097003939083143
49: #define Z_MEAN 0.814970278082424
50: #define Z_RANGE 1.032072011764706
51: #define Z_MIN 0.048455952941176
52: #define Z_MAX 1.080527964705882
53: #define Z_SUM 2.563674822931669e6
54:
55: #define RI_STD 0.215470901001717
56: #define RI_MEAN -0.061338583528514
57: #define RI_RANGE 1.861278665280243e2
58: #define RI_MIN -1.210658478499890e2
59: #define RI_MAX 65.062018678035301
60: #define RI_SUM -1.929544996859839e5
```

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5: * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
    6: */
    7:
    8:
    9: #include "testparticlegenerator.h"
   10:
   11:
   12: TestParticleGenerator::TestParticleGenerator()
   13: {
   14: }
   15:
   16: cv::Mat TestParticleGenerator::GenParticle(uint32_t size, float ellipseratio, cv::Vec3b meanColor, cv::Vec3
f stdColor, float roughness, float angle)
   17: {
             uint32_t height, width;
            height = cv::Mat img(x ? x : y, );
   19:
   20:
            cv::ellipse(img, cv::Point(img.cols/2, img.rows/2), cv::Size(size, size * ellipseratio), angle, 0 360,
   21:
cv::Scalar(1,1,1), -1);
   22:
   23: }
```

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6: */
 7:
 8:
 9:
10: #ifndef TESTPARTICLEGENERATOR_GLOBAL_H
11: #define TESTPARTICLEGENERATOR_GLOBAL_H
12:
13: #include <QtCore/qglobal.h>
14:
15: #if defined(TESTPARTICLEGENERATOR_LIBRARY)
16: # define TESTPARTICLEGENERATORSHARED_EXPORT Q_DECL_EXPORT
17: #else
18: # define TESTPARTICLEGENERATORSHARED_EXPORT Q_DECL_IMPORT
19: #endif
20:
21: #endif // TESTPARTICLEGENERATOR_GLOBAL_H
```

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5: * Written by Jelle Spijker <spijker.jelle@gmail.com>, 2015
    6: */
    7:
    8:
    9:
   10: #ifndef TESTPARTICLEGENERATOR_H
   11: #define TESTPARTICLEGENERATOR_H
   12:
   13: #include "testparticlegenerator_global.h"
   14: #include <opencv2/core.hpp>
   15: #include <vector>
   16: #include <stdint.h>
   17:
   18: class TESTPARTICLEGENERATORSHARED_EXPORT TestParticleGenerator
   19: {
   20:
   21:
   22: public:
   23:
         std::vector<cv::Mat> particles;
           TestParticleGenerator();
   25:
            cv::Mat GenParticle(uint32_t size, float ellipseratio, cv::Vec3b meanColor, cv::Vec3f stdColor, float r
oughness, float angle);
   26: };
   27:
   28: #endif // TESTPARTICLEGENERATOR_H
```