

Deskriptor: Mittelwert

Trefferquote: 77.5 %

	App le Gre en	App le Red	Ban ana	Cara mbo la	Gua va	Kiw i	Man go	Mus kme lon	Ora nge	Peac h	Pear	Pers imm on	Pita ya	Plu m	Pom egra nate	Tom ato
App le Gre en	120	0	9	0	11	6	2	38	1	0	10	0	0	2	1	0
App le Red	0	168	0	0	0	0	0	0	0	2	0	3	13	0	0	14
Ban ana	6	0	98	1	17	15	29	3	2	0	8	0	0	6	15	0
Cara mbo la	0	0	4	196	0	0	0	0	0	0	0	0	0	0	0	0
Gua va	7	0	14	0	167	7	0	5	0	0	0	0	0	0	0	0
Kiw i	6	0	7	0	3	130	7	8	1	13	12	0	0	0	13	0
Man go	4	0	23	0	2	5	125	2	6	1	18	0	0	1	13	0
Mus kme lon	45	0	3	0	10	5	2	120	0	0	12	0	0	2	1	0
Ora nge	1	0	1	0	0	2	5	0	179	0	4	7	0	0	1	0
Peac h	0	7	1	0	0	6	0	0	0	165	0	4	12	0	4	1
Pear	10	0	5	0	1	10	12	5	2	1	148	0	0	1	5	0
Pers imm on	0	1	0	0	0	0	0	0	6	0	0	188	4	0	1	0
Pita ya	0	13	0	0	0	0	0	0	0	20	0	0	165	0	1	1
Plu m	2	0	2	0	0	0	0	2	0	0	0	0	0	193	1	0
Pom egra nate	1	1	23	0	0	14	7	2	2	12	7	0	0	0	131	0
Tom ato	0	11	0	0	0	0	0	0	0	0	0	1	0	1	0	187

Nach Erfolg sortiert:

Platz	Frucht	Anzahl richtig erkannt
1	Carambola	196
2	Plum	193
3	Persimmon	188
4	Tomato	187
5	Orange	179
6	Apple Red	168
7	Guava	167
8	Peach	165
9	Pitaya	165
10	Pear	148
11	Pomegranate	131
12	Kiwi	130
13	Mango	125
14	Muskmelon	120
15	Apple Green	120
16	Banana	98

Häufigste Fehler:

Platz	Eigentlich	Erkannt als	Häufigkeit
1	Muskmelon	Apple Green	45
2	Apple Green	Muskmelon	38
3	Banana	Mango	29
4	Mango	Banana	23
5	Pomegranate	Banana	23
6	Pitaya	Peach	20
7	Mango	Pear	18
8	Banana	Guava	17
9	Banana	Kiwi	15
10	Banana	Pomegranate	15
11	Apple Red	Tomato	14
12	Guava	Banana	14
13	Apple Red	Pitaya	13
14	Kiwi	Peach	13
15	Kiwi	Pomegranate	13

[illegible]

Deskriptor: Mittelwert und Standardabweichung

Trefferquote: 86.96875 %

	App le Gre en	App le Red	Ban ana	Cara mbo la	Gua va	Kiw i	Man go	Mus kme lon	Ora nge	Peac h	Pear	Pers imm on	Pita ya	Plu m	Pom egra nate	Tom ato
App le Gre en	148	0	0	0	2	2	0	40	0	1	5	0	0	1	1	0
App le Red	0	187	0	0	0	0	0	0	0	2	0	0	6	0	0	5
Ban ana	7	0	125	1	10	5	22	3	0	0	14	0	0	0	13	0
Cara mbo la	0	0	9	190	0	1	0	0	0	0	0	0	0	0	0	0
Gua va	1	0	6	1	185	3	0	4	0	0	0	0	0	0	0	0
Kiw i	3	0	1	0	1	167	1	3	0	13	11	0	0	0	0	0
Man go	3	0	21	0	2	0	148	3	1	0	9	0	0	0	13	0
Mus kme lon	32	0	3	0	4	1	6	146	0	0	6	0	0	2	0	0
Ora nge	0	0	0	0	0	0	2	0	188	0	1	5	0	0	4	0
Peac h	0	2	0	0	0	1	0	0	0	188	1	0	8	0	0	0
Pear	6	0	3	0	0	8	5	3	0	2	172	0	0	0	1	0
Pers imm on	0	1	0	0	0	0	0	0	2	1	0	195	0	0	1	0
Pita ya	0	0	0	0	0	0	0	0	0	5	0	0	195	0	0	0
Plu m	2	0	0	0	0	0	0	0	0	0	1	0	0	197	0	0
Pom egra nate	0	1	16	1	1	2	9	0	0	4	4	0	0	0	162	0
Tom ato	0	8	0	0	0	0	0	0	0	0	0	1	0	1	0	190

Nach Erfolg sortiert:

Platz	Frucht	Anzahl richtig erkannt	Vorher (nur Mittelwert)
1	Plum	197	193 +
2	Persimmon	195	188 +
3	Pitaya	195	165 +
4	Carambola	190	196 -
5	Tomato	190	187 +
6	Orange	188	179 +
7	Peach	188	165 +
8	Apple Red	187	168 +
9	Guava	185	167 +
10	Pear	172	148 +
11	Kiwi	167	130 +
12	Pomegranate	162	131 +
13	Apple Green	148	120 +
14	Mango	148	125 +
15	Muskmelon	146	120 +
16	Banana	125	98 +

Deskriptor: 1D Histogramm 16 bins gewichtet

Trefferquote: 89.96875 %

```
[[164 0 1 0 4 3 1 13 0 1 7 0 1 3 2 0]
 [ 0 185 0 0 0 1 0 0 0 2 0 0 5 0 0 7]
 [ 6 0 137 4 4 8 20 0 0 1 5 0 0 0 15 0]
 [ 0 0 1 194 1 2 1 0 0 0 0 0 0 0 1 0]
 [ 3 0 0 0 193 1 0 1 0 0 2 0 0 0 0 0]
 [ 1 0 4 0 0 182 0 0 0 7 5 0 0 0 1 0]
 [ 2 0 17 2 0 0 159 2 0 0 6 1 0 0 11 0]
 [20 0 6 0 1 2 2 164 0 0 3 0 0 2 0 0]
 [ 0 0 0 0 0 0 1 0 190 0 0 7 0 0 2 0]
 [ 0 0 0 0 0 3 0 0 0 196 0 0 0 0 0 1]
 [ 1 0 2 0 4 8 2 3 0 2 174 0 0 1 3 0]
 [ 0 0 0 0 0 0 0 0 4 0 1 189 1 0 3 2]
 [ 0 3 0 0 0 0 0 0 0 1 0 0 196 0 0 0]
 [ 3 0 1 0 0 0 0 0 0 0 1 0 0 195 0 0]
 [ 0 0 14 0 1 1 7 0 1 1 4 2 1 0 168 0]
 [ 0 4 0 0 0 0 0 0 0 0 0 0 1 1 1 193]]
```

Deskriptor: 3D Histogramm 8 bins

Trefferquote: 95.8125 %

```
[[183 0 0 0 1 3 0 9 0 0 2 0 0 1 1 0]
 [ 0 196 0 0 0 1 0 0 0 1 0 0 0 0 0 2]
 [ 0 0 182 0 4 2 6 0 0 0 2 0 0 0 4 0]
 [ 0 0 1 196 0 0 1 1 0 0 0 0 0 0 1 0]
 [ 1 0 0 0 196 0 0 0 0 0 2 0 0 0 1 0]
 [ 0 0 0 0 0 195 0 1 0 3 1 0 0 0 0 0]
 [ 1 0 13 0 0 1 174 0 0 0 3 0 0 0 8 0]
 [12 0 1 0 2 0 2 180 0 0 2 0 0 1 0 0]
 [ 0 0 0 0 0 0 0 0 197 0 0 1 0 0 2 0]
 [ 0 0 0 0 0 0 0 0 0 199 0 0 0 0 1 0]
 [ 0 0 1 0 1 5 2 2 0 1 188 0 0 0 0 0]
 [ 0 1 0 0 0 1 0 0 1 0 0 196 0 0 0 1]
 [ 0 0 0 0 0 1 0 0 0 0 0 0 199 0 0 0]
 [ 0 0 0 0 0 0 0 0 0 0 0 0 0 200 0 0]
 [ 1 0 7 0 0 0 2 0 0 1 0 2 0 0 187 0]
 [ 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 198]]
```

Deskriptor: 3D Histogramm 8 bins gewichtet

Trefferquote: 95.6875 %

```
[[184 0 0 0 0 1 1 7 0 0 5 0 0 2 0 0]
 [ 0 194 0 0 0 0 0 0 0 1 0 0 0 0 0 5]
 [ 0 0 181 1 3 1 6 0 0 0 3 0 0 0 5 0]
 [ 0 0 3 197 0 0 0 0 0 0 0 0 0 0 0 0]
 [ 1 0 1 0 198 0 0 0 0 0 0 0 0 0 0 0]
 [ 0 0 1 0 0 191 0 0 0 3 4 0 0 0 1 0]
 [ 0 0 13 0 0 1 172 2 0 0 3 0 0 0 9 0]
 [ 17 0 0 0 1 0 1 180 0 0 1 0 0 0 0 0]
 [ 0 0 0 0 0 1 1 0 195 0 0 2 0 0 1 0]
 [ 0 0 0 0 0 0 0 0 0 199 0 0 0 0 1 0]
 [ 1 0 0 0 1 6 1 1 0 0 189 0 0 0 1 0]
 [ 0 0 0 0 0 1 0 0 1 0 0 198 0 0 0 0]
 [ 0 0 0 0 0 0 0 0 0 0 0 0 200 0 0 0]
 [ 2 0 0 0 0 1 0 0 0 0 1 0 0 196 0 0]
 [ 0 0 4 0 1 0 2 0 0 1 0 1 0 0 191 0]
 [ 0 2 0 0 0 0 0 0 0 0 0 0 0 1 0 197]]
```

k-Nearest Neighbour:

3D Histo:

Trefferquote k = 1: 95.8125 %

Trefferquote k = 2: 94.65625 %

Trefferquote k = 3: 95.03125 %

Trefferquote k = 4: 94.46875 %

Trefferquote k = 5: 94.40625 %

Trefferquote k = 6: 94.0 %

Trefferquote k = 7: 93.4375 %

Trefferquote k = 8: 93.25 %

Trefferquote k = 9: 92.75 %

Trefferquote k = 10: 92.625 %

3D Histo gewichtet:

Trefferquote k = 1: 95.6875 %

Trefferquote k = 2: 95.25 %

Trefferquote k = 3: 95.4375 %

Trefferquote k = 4: 95.375 %

Trefferquote k = 5: 94.75 %

Trefferquote k = 6: 94.5625 %

Trefferquote k = 7: 94.53125 %

Trefferquote k = 8: 94.3125 %

Trefferquote k = 9: 93.875 %

Trefferquote k = 10: 93.71875 %

Mittelwert (maskiert) 400 Trainingsbilder

Trefferquote: 75.59375 %

```
[[102 0 10 0 11 3 5 54 0 0 11 0 0 3 1 0]
 [ 0 162 0 0 0 0 0 0 0 1 0 3 16 0 0 18]
 [ 6 0 88 3 17 13 31 5 2 0 10 0 0 6 19 0]
 [ 0 0 1 198 1 0 0 0 0 0 0 0 0 0 0 0]
 [ 6 0 16 0 165 8 0 5 0 0 0 0 0 0 0 0]
 [ 5 0 9 0 4 128 5 11 0 14 13 0 0 0 11 0]
 [ 1 0 27 0 1 5 128 3 3 0 15 0 0 2 15 0]
 [54 0 5 0 14 8 2 104 0 0 12 0 0 1 0 0]
 [ 1 0 1 0 0 3 2 0 185 0 3 5 0 0 0 0]
 [ 0 10 0 0 0 6 1 0 0 165 0 3 13 0 2 0]
 [10 0 10 0 0 10 12 8 0 1 143 0 0 1 5 0]
 [ 0 1 0 0 0 0 0 0 10 1 1 182 4 0 0 1]
 [ 0 16 0 0 0 0 0 0 0 17 0 1 164 0 1 1]
 [ 2 0 3 0 0 3 0 4 1 0 0 0 0 186 1 0]
 [ 1 1 20 1 0 19 8 3 0 11 4 1 0 1 130 0]
 [ 0 10 0 0 0 0 0 0 0 0 0 0 0 1 0 189]]
```

3D Histo 16 bins

Trefferquote: 96.0 %

```
[[183 0 0 0 1 1 0 6 0 1 4 0 0 4 0 0]
 [ 0 199 0 0 0 1 0 0 0 0 0 0 0 0 0 0]
 [ 1 0 179 0 4 1 7 1 0 0 2 0 0 1 4 0]
 [ 0 0 1 198 0 0 1 0 0 0 0 0 0 0 0 0]
 [ 0 0 1 0 196 0 0 0 0 0 0 0 0 1 2 0]
 [ 0 0 0 0 0 195 0 1 0 2 0 1 0 1 0 0]
 [ 0 0 8 0 2 0 178 0 0 0 3 1 0 1 7 0]
 [ 3 0 1 0 1 0 2 191 0 0 1 0 0 1 0 0]
 [ 0 0 0 0 0 0 1 0 194 0 0 3 0 1 1 0]
 [ 0 0 0 0 0 0 0 0 0 200 0 0 0 0 0 0]
 [ 2 0 0 0 0 4 1 1 0 0 189 0 0 0 3 0]
 [ 1 0 0 0 0 1 0 0 0 0 0 196 0 0 1 1]
 [ 0 0 0 0 0 1 0 0 0 0 0 1 198 0 0 0]
 [ 1 0 0 0 0 0 0 0 0 0 0 0 0 199 0 0]
 [ 2 0 4 0 0 1 3 1 0 0 3 0 1 2 183 0]
 [ 0 3 0 0 0 0 0 0 0 0 0 0 0 2 1 194]]
```


3D Histo 4 bins

Trefferquote: 91.59375 %

```
[[175 0 0 0 2 3 0 12 0 2 4 0 0 2 0 0]
 [ 0 191 0 0 0 0 0 0 0 0 0 3 0 0 0 6]
 [ 0 0 149 3 4 5 17 3 0 0 5 0 0 0 14 0]
 [ 1 0 3 195 1 0 0 0 0 0 0 0 0 0 0 0]
 [ 2 0 4 0 189 3 0 0 0 0 1 0 0 0 1 0]
 [ 1 0 1 0 1 185 0 0 0 5 4 0 0 3 0 0]
 [ 2 0 15 0 1 0 164 3 0 0 6 0 0 0 9 0]
 [14 0 3 0 4 0 1 173 0 0 4 0 0 1 0 0]
 [ 0 2 0 0 0 0 3 0 184 0 0 7 0 0 4 0]
 [ 0 0 0 0 0 2 0 0 0 195 0 0 2 0 1 0]
 [ 4 0 4 0 4 5 2 2 0 1 177 0 0 0 1 0]
 [ 0 1 1 0 0 0 0 0 4 0 0 192 0 0 2 0]
 [ 0 1 0 0 0 0 0 0 0 0 0 0 199 0 0 0]
 [ 1 0 0 0 0 1 0 2 0 0 0 0 0 196 0 0]
 [ 0 1 7 0 0 2 4 0 1 1 7 0 0 2 175 0]
 [ 0 6 0 0 0 0 0 0 0 0 0 0 0 1 1 192]]
```

3D Histo 16 bins gewichtet

Trefferquote: 96.34375 %

```
[[183 0 0 0 1 1 0 8 0 0 4 0 0 3 0 0]
 [ 0 199 0 0 0 1 0 0 0 0 0 0 0 0 0 0]
 [ 1 0 183 1 3 0 4 1 0 0 0 0 0 0 7 0]
 [ 0 0 0 200 0 0 0 0 0 0 0 0 0 0 0 0]
 [ 0 0 1 0 197 0 0 0 0 0 0 0 0 0 2 0]
 [ 0 0 1 0 0 193 0 1 0 1 3 1 0 0 0 0]
 [ 0 0 9 0 0 1 172 0 0 0 3 0 0 0 15 0]
 [ 8 0 0 0 1 1 0 189 0 0 1 0 0 0 0 0]
 [ 0 0 0 0 0 1 1 0 193 0 0 3 0 0 2 0]
 [ 0 0 0 0 0 0 0 0 0 200 0 0 0 0 0 0]
 [ 0 0 1 0 0 5 1 1 0 0 191 0 0 0 1 0]
 [ 0 0 0 0 0 1 0 0 0 0 0 196 1 0 2 0]
 [ 0 0 0 0 0 0 0 0 0 0 0 0 200 0 0 0]
 [ 1 0 0 0 0 0 0 0 0 0 0 0 0 199 0 0]
 [ 0 0 3 0 0 0 1 1 0 1 2 1 1 0 190 0]
 [ 0 1 0 0 0 0 0 0 0 0 0 0 0 1 0 198]]
```

Am Schlechtesten:

1. Mango 172
2. + 3. Apple_Green + Banana 183
4. Muskmelon 189

Häufigste Fehler:

1. Mango → Pomegranate 15
2. Mango → Banana 9
- 3,4. Apple_Green → Muskmelon, Muskmelon → Apple_Green 8
5. Banana → Pomegranate 7

Apple_Green_801 is closest to Kiwi_619

Apple_Green_820 is closest to Pear_318

Apple_Green_858 is closest to Plum_456

Apple_Green_871is closest to Muskmelon_154
Apple_Green_876is closest to Muskmelon_255
Apple_Green_884is closest to Pear_280
Apple_Green_898is closest to Muskmelon_150
Apple_Green_900is closest to Muskmelon_347
Apple_Green_917is closest to Muskmelon_224
Apple_Green_920is closest to Muskmelon_518
Apple_Green_921is closest to Muskmelon_596
Apple_Green_924is closest to Muskmelon_763
Apple_Green_947is closest to Plum_468
Apple_Green_971is closest to Guava_136
Apple_Green_972is closest to Pear_45
Apple_Green_990is closest to Plum_144
Apple_Green_993is closest to Pear_312
Apple_Red_951is closest to Kiwi_310
Banana_805is closest to Pomegranate_700
Banana_807is closest to Pomegranate_306
Banana_818is closest to Pomegranate_631
Banana_822is closest to Carambola_344
Banana_848is closest to Mango_86
Banana_872is closest to Mango_144
Banana_876is closest to Mango_131
Banana_877is closest to Pomegranate_247
Banana_881is closest to Guava_452
Banana_891is closest to Guava_370
Banana_908is closest to Pomegranate_110
Banana_913is closest to Muskmelon_87
Banana_955is closest to Mango_709
Banana_956is closest to Pomegranate_668
Banana_981is closest to Apple_Green_232
Banana_988is closest to Guava_390
Banana_994is closest to Pomegranate_11
Guava_912is closest to Pomegranate_788
Guava_954is closest to Pomegranate_237
Guava_967is closest to Banana_111
Kiwi_819is closest to Pear_394
Kiwi_864is closest to Peach_736
Kiwi_874is closest to Pear_583
Kiwi_883is closest to Banana_661
Kiwi_897is closest to Persimmon_229
Kiwi_957is closest to Pear_562
Kiwi_979is closest to Muskmelon_130
Mango_802is closest to Pomegranate_695
Mango_803is closest to Pomegranate_649
Mango_816is closest to Banana_480
Mango_823is closest to Banana_487
Mango_828is closest to Pear_481
Mango_851is closest to Kiwi_161
Mango_861is closest to Banana_298
Mango_863is closest to Pomegranate_326
Mango_867is closest to Pomegranate_513
Mango_869is closest to Pomegranate_431

Mango_890is closest to Pomegranate_82
Mango_895is closest to Banana_140
Mango_898is closest to Pear_430
Mango_904is closest to Pomegranate_779
Mango_906is closest to Banana_230
Mango_929is closest to Pomegranate_411
Mango_932is closest to Banana_719
Mango_933is closest to Pomegranate_215
Mango_938is closest to Banana_104
Mango_944is closest to Pomegranate_617
Mango_948is closest to Banana_542
Mango_960is closest to Pomegranate_654
Mango_970is closest to Pomegranate_377
Mango_975is closest to Pomegranate_523
Mango_976is closest to Pomegranate_705
Mango_983is closest to Banana_512
Mango_990is closest to Pomegranate_198
Mango_995is closest to Pear_607
Muskmelon_807is closest to Apple_Green_500
Muskmelon_810is closest to Pear_454
Muskmelon_828is closest to Apple_Green_684
Muskmelon_845is closest to Apple_Green_76
Muskmelon_883is closest to Apple_Green_341
Muskmelon_889is closest to Apple_Green_325
Muskmelon_894is closest to Kiwi_356
Muskmelon_909is closest to Apple_Green_574
Muskmelon_918is closest to Apple_Green_122
Muskmelon_956is closest to Guava_689
Muskmelon_963is closest to Apple_Green_233
Orange_855is closest to Mango_645
Orange_867is closest to Persimmon_361
Orange_895is closest to Kiwi_347
Orange_923is closest to Pomegranate_640
Orange_941is closest to Pomegranate_745
Orange_959is closest to Persimmon_3
Orange_989is closest to Persimmon_548
Pear_810is closest to Kiwi_137
Pear_813is closest to Banana_734
Pear_829is closest to Pomegranate_32
Pear_853is closest to Kiwi_455
Pear_873is closest to Kiwi_563
Pear_893is closest to Kiwi_766
Pear_959is closest to Mango_692
Pear_969is closest to Kiwi_563
Pear_978is closest to Muskmelon_750
Persimmon_817is closest to Pomegranate_761
Persimmon_881is closest to Pomegranate_681
Persimmon_902is closest to Kiwi_448
Persimmon_923is closest to Pitaya_408
Plum_994is closest to Apple_Green_276
Pomegranate_836is closest to Pitaya_620
Pomegranate_856is closest to Banana_661

Pomegranate_866is closest to Mango_420
 Pomegranate_872is closest to Peach_45
 Pomegranate_879is closest to Persimmon_34
 Pomegranate_892is closest to Banana_467
 Pomegranate_920is closest to Muskmelon_193
 Pomegranate_924is closest to Pear_20
 Pomegranate_935is closest to Banana_81
 Pomegranate_952is closest to Pear_726
 Tomatoes_826is closest to Apple_Red_102
 Tomatoes_976is closest to Plum_164

Trefferquote k = 2: 96.03125 %
 Trefferquote k = 3: 96.125 %
 Trefferquote k = 4: 95.6875 %
 Trefferquote k = 5: 95.96875 %
 Trefferquote k = 6: 95.375 %
 Trefferquote k = 7: 95.21875 %
 Trefferquote k = 8: 95.375 %
 Trefferquote k = 9: 94.9375 %
 Trefferquote k = 10: 94.75 %

1D Histo 32 bins gewichtet

Trefferquote: 91.78125 %

```

[[165  0  1  0  5  7  0  7  0  1  6  0  1  2  5  0]
 [  0 189  0  0  0  1  0  0  0  0  0  0  4  0  0  6]
 [  1  0 154  1  5  7 13  0  0  0  8  0  0  0 11  0]
 [  0  0  1 195  0  0  0  0  1  0  0  0  0  0  3  0]
 [  1  0  2  0 192  3  0  0  0  0  1  0  0  0  1  0]
 [  0  0  5  0  2 182  0  1  0  3  4  0  2  0  1  0]
 [  0  0 20  2  2  1 159  2  0  0  4  0  0  0 10  0]
 [ 16  0  5  0  1  0  2 171  0  0  3  0  0  1  1  0]
 [  0  0  0  0  0  0  1  0 192  0  0  4  1  0  1  1]
 [  0  1  0  0  0  3  0  0  0 195  0  0  1  0  0  0]
 [  0  1  4  0  2  4  2  1  0  2 181  0  1  0  2  0]
 [  0  4  0  0  0  0  0  0  1  0  0 190  2  0  1  2]
 [  0  3  0  0  0  1  0  0  0  1  0  0 195  0  0  0]
 [  0  0  0  0  0  1  0  1  0  0  0  0  0 198  0  0]
 [  0  0 11  0  0  0  2  0  0  0  3  0  3  0 181  0]
 [  0  2  0  0  0  0  0  0  0  0  0  0  0  0  0 198]]
  
```

1D Histo 64 bins gewichtet

Trefferquote: 92.0625 %

```

[[165  0  0  0  5  7  0  5  0  1  7  0  1  3  6  0]
 [  0 191  0  0  0  1  0  0  0  0  0  0  5  0  0  3]
 [  0  0 160  0  5  6 10  1  0  0  6  0  0  0 12  0]
 [  0  0  2 194  0  0  0  0  1  0  0  0  0  0  3  0]
 [  1  0  1  0 193  2  0  0  0  0  1  0  0  0  2  0]
 [  0  0  5  0  0 184  0  1  0  3  4  0  2  0  1  0]
 [  0  0 19  0  2  1 160  3  0  0  5  0  0  0 10  0]
  
```

```
[ 14 2 5 0 1 0 2 173 0 0 2 0 0 1 0 0]
[ 0 0 0 0 0 0 1 0 191 0 0 4 1 0 2 1]
[ 0 0 0 0 0 3 0 0 0 193 0 0 4 0 0 0]
[ 0 1 4 0 2 4 1 1 0 2 180 0 1 0 4 0]
[ 0 4 0 0 0 0 0 0 1 0 0 187 2 0 1 5]
[ 0 3 0 0 0 1 0 0 0 0 0 0 196 0 0 0]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 200 0 0]
[ 0 0 8 0 1 0 2 1 0 1 3 0 3 0 181 0]
[ 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 198]]
```

1D Histo 128 bins gewichtet

Trefferquote: 92.34375 %

```
[[164 0 0 0 6 8 0 7 0 1 6 0 1 2 5 0]
[ 0 193 0 0 0 1 0 0 0 0 0 0 0 4 0 0 2]
[ 0 0 164 0 6 5 10 1 1 0 6 0 0 0 7 0]
[ 0 0 1 195 0 0 0 0 0 0 0 1 0 0 3 0]
[ 3 0 2 0 192 2 0 0 0 0 1 0 0 0 0 0]
[ 0 0 6 0 0 182 0 2 0 3 3 0 2 0 2 0]
[ 0 0 19 0 2 1 159 3 0 0 5 0 0 0 11 0]
[ 14 2 6 0 2 0 2 172 0 0 2 0 0 0 0 0]
[ 0 0 0 0 0 0 1 0 190 0 0 5 1 0 2 1]
[ 0 0 0 0 0 3 0 0 0 195 0 0 2 0 0 0]
[ 1 1 3 0 1 5 1 1 0 2 181 0 1 0 3 0]
[ 0 4 0 0 0 0 0 0 1 0 0 187 2 0 1 5]
[ 0 3 0 0 0 1 0 0 0 0 0 0 196 0 0 0]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 200 0 0]
[ 0 0 4 0 1 0 1 1 0 1 2 0 3 0 187 0]
[ 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 198]]
```

1D Histo 256 bins gewichtet

Trefferquote: 92.1875 %

```
[[164 0 1 0 5 9 0 6 0 1 9 0 0 2 3 0]
[ 0 189 0 0 0 1 0 0 0 0 0 0 0 6 0 0 4]
[ 1 0 165 0 6 5 10 1 1 0 3 1 0 0 7 0]
[ 0 0 2 194 0 0 0 0 0 0 0 1 0 0 3 0]
[ 3 0 2 0 191 2 0 0 0 0 1 0 0 0 1 0]
[ 0 0 6 0 0 182 0 2 0 4 2 0 3 0 1 0]
[ 0 0 19 0 2 1 160 4 0 0 4 0 0 0 10 0]
[ 13 1 5 0 2 0 2 174 0 0 2 0 0 1 0 0]
[ 0 0 0 0 0 0 1 0 186 0 0 7 1 0 4 1]
[ 0 0 0 0 0 3 0 0 0 194 0 0 3 0 0 0]
[ 0 2 2 0 1 5 3 1 0 2 180 0 1 0 3 0]
[ 0 5 0 0 0 0 0 0 1 0 0 187 2 0 1 4]
[ 0 4 0 0 0 0 0 0 0 0 0 0 196 0 0 0]
[ 0 0 0 0 0 0 0 0 0 0 0 0 0 200 0 0]
[ 0 0 4 0 0 0 1 0 0 1 2 0 3 0 189 0]
[ 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 199]]
```

3D Histo 32 bins gewichtet

Trefferquote: 96.09375 %

```
[[186 0 0 0 0 1 2 3 0 1 2 0 1 1 3 0]
 [ 0 199 0 0 0 0 0 0 0 0 0 0 0 0 0 1]
 [ 0 0 182 0 1 0 4 1 0 0 2 0 1 0 9 0]
 [ 0 0 0 200 0 0 0 0 0 0 0 0 0 0 0 0]
 [ 0 0 0 0 197 0 0 1 0 0 0 0 0 0 2 0]
 [ 0 0 2 0 0 189 1 1 0 0 2 2 1 0 2 0]
 [ 0 0 12 0 0 0 168 0 0 0 2 1 0 0 17 0]
 [ 1 0 0 0 2 0 0 192 0 0 4 0 0 0 1 0]
 [ 0 0 0 0 0 0 1 0 192 0 0 3 1 0 3 0]
 [ 0 0 0 0 0 0 0 0 0 199 0 0 1 0 0 0]
 [ 0 0 3 0 0 3 0 2 0 0 189 0 0 0 3 0]
 [ 0 0 0 0 0 2 0 0 0 0 0 195 2 0 1 0]
 [ 0 0 0 0 0 0 0 0 0 0 0 200 0 0 0 0]
 [ 0 0 0 0 0 1 0 0 0 0 1 0 0 198 0 0]
 [ 0 0 1 0 0 0 0 1 0 0 3 2 1 0 192 0]
```

3D Histo 16 bins Unmaskiert

Trefferquote: 93.09375 %

```
[[183 1 0 1 0 1 1 8 0 1 2 0 1 0 1 0]
 [ 0 188 0 1 1 0 0 1 0 4 0 1 0 1 2 1]
 [ 2 0 166 0 0 2 11 0 4 0 8 0 1 0 6 0]
 [ 1 1 1 191 0 0 0 2 1 0 0 0 2 0 1 0]
 [ 0 0 0 0 194 3 0 1 0 0 1 0 0 0 1 0]
 [ 0 0 0 0 0 182 1 0 0 0 1 2 14 0 0 0]
 [ 1 1 11 0 0 3 166 1 3 1 3 1 2 0 7 0]
 [ 3 0 0 0 0 0 0 192 1 0 2 0 1 0 1 0]
 [ 1 0 0 0 0 0 1 2 182 1 0 6 3 1 2 1]
 [ 0 0 0 0 0 0 0 0 0 197 1 0 0 1 0 1]
 [ 3 1 3 1 1 0 2 1 0 3 181 0 2 0 2 0]
 [ 0 0 0 0 0 3 0 0 4 0 0 186 6 0 1 0]
 [ 0 2 0 0 1 9 0 1 0 0 0 0 187 0 0 0]
 [ 0 2 0 0 1 0 0 0 0 0 0 0 1 196 0 0]
 [ 0 0 1 0 0 0 3 1 3 0 1 2 0 0 189 0]
 [ 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 199]]
```

Mittelwerte Unmaskiert

Trefferquote: 51.28125 %

```
[[ 55  0 10  6 24 15 10 44  4  1 12  0  0 11  8  0]
 [  1 144  0  0  0  0  0  0  4  6  0  5 18  5  0 17]
 [ 15  1 59 27 16  9 26 10  6  0 17  2  0  2 10  0]
 [  4  0 15 144 11  3 10  4  1  0  7  0  0  0  1  0]
 [ 22  0 22 14 91  4 11 14  0  0 21  0  0  0  1  0]
 [  8  0  6  0  4 82 16 30  5 13 14  4  0  7 11  0]
 [ 11  0 26  7 10 12 60  8 10  4 24  2  0  5 21  0]
 [ 27  0 12  3  9 30  5 78  2  1 19  0  0  4 10  0]
 [  7  3  4  2  3  3  5  1 112  5  5 30  1  5 12  2]
 [  1  8  2  0  0 10  2  4  4 117  2 14 16  0  9 11]
 [ 15  1 13  6 15 14 14 20  3  4 64  5  1  5 20  0]
 [  0  3  0  0  0  1  0  0 23 13  2 140  6  2  3  7]
 [  0 15  0  0  0  1  0  0  2  7  0  6 129  1  2 37]
 [  5  6  3  0  0  9  0  5  2  1  8  6  0 152  3  0]
 [  8  0 15  3  2 13 25  9 14  7 20  3  1  1 79  0]
 [  1 15  3  0  0  0  1  0  2  5  0  5 31  0  2 135]]
```