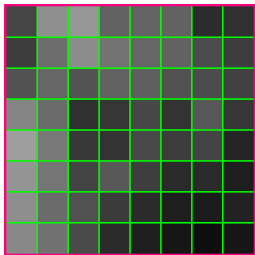
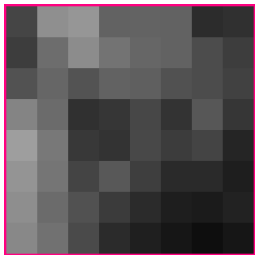


$$\text{Rotwerte} = \begin{pmatrix} 76 & 152 & 153 & 93 & 93 & 92 & 46 & 54 \\ 69 & 118 & 144 & 109 & 93 & 92 & 74 & 65 \\ 85 & 100 & 77 & 89 & 87 & 74 & 70 & 59 \\ 132 & 102 & 43 & 49 & 64 & 46 & 77 & 46 \\ 156 & 110 & 49 & 46 & 65 & 54 & 60 & 30 \\ 145 & 106 & 58 & 80 & 55 & 37 & 37 & 27 \\ 136 & 98 & 69 & 47 & 35 & 28 & 27 & 30 \\ 130 & 105 & 63 & 33 & 25 & 22 & 16 & 21 \end{pmatrix} .$$

$$\text{Grünwerte} = \begin{pmatrix} 62 & 134 & 148 & 102 & 104 & 101 & 42 & 43 \\ 54 & 101 & 136 & 112 & 99 & 95 & 71 & 57 \\ 80 & 101 & 82 & 96 & 89 & 71 & 66 & 60 \\ 132 & 107 & 50 & 56 & 68 & 43 & 81 & 52 \\ 158 & 118 & 53 & 52 & 71 & 57 & 65 & 36 \\ 145 & 111 & 61 & 83 & 57 & 38 & 42 & 31 \\ 139 & 100 & 76 & 56 & 38 & 26 & 24 & 33 \\ 136 & 112 & 72 & 40 & 27 & 19 & 13 & 23 \end{pmatrix}.$$

$$\text{Blauwerte} = \begin{pmatrix} 74 & 146 & 151 & 104 & 106 & 105 & 48 & 51 \\ 63 & 112 & 144 & 123 & 110 & 106 & 81 & 66 \\ 83 & 105 & 90 & 109 & 105 & 92 & 87 & 73 \\ 134 & 113 & 55 & 60 & 79 & 60 & 97 & 63 \\ 161 & 131 & 63 & 57 & 79 & 67 & 76 & 45 \\ 153 & 130 & 79 & 97 & 70 & 47 & 48 & 35 \\ 148 & 116 & 94 & 72 & 53 & 36 & 32 & 37 \\ 141 & 123 & 85 & 54 & 38 & 25 & 15 & 23 \end{pmatrix}.$$



Helligkeitswerte =

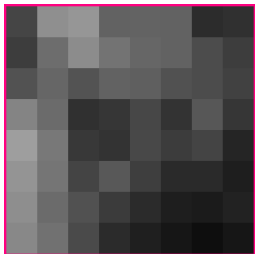
$$\begin{pmatrix} 65 & 135 & 142 & 93 & 94 & 93 & 42 & 46 \\ 58 & 103 & 132 & 109 & 96 & 93 & 72 & 58 \\ 78 & 96 & 79 & 93 & 90 & 77 & 72 & 62 \\ 125 & 101 & 46 & 51 & 67 & 48 & 82 & 51 \\ 149 & 113 & 53 & 48 & 68 & 57 & 64 & 35 \\ 140 & 111 & 64 & 83 & 59 & 40 & 40 & 29 \\ 134 & 101 & 77 & 56 & 41 & 29 & 26 & 32 \\ 128 & 107 & 70 & 41 & 30 & 21 & 14 & 21 \end{pmatrix}$$

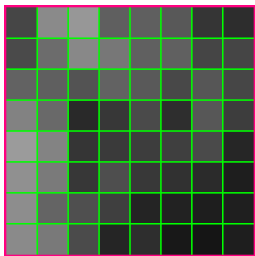
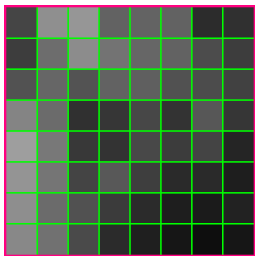
$$\text{Farbtonwerte} = \begin{pmatrix} 206 & 213 & 216 & 127 & 126 & 132 & 187 & 211 \\ 216 & 214 & 200 & 151 & 146 & 151 & 172 & 196 \\ 216 & 152 & 145 & 146 & 156 & 166 & 168 & 157 \\ 160 & 142 & 137 & 135 & 149 & 167 & 152 & 146 \\ 144 & 145 & 149 & 138 & 143 & 151 & 148 & 144 \\ 160 & 152 & 154 & 153 & 155 & 156 & 142 & 140 \\ 150 & 156 & 149 & 146 & 153 & 168 & 175 & 143 \\ 138 & 144 & 144 & 147 & 154 & 180 & 213 & 120 \end{pmatrix}.$$

$$\text{Sättigungswerte} = \begin{pmatrix} 24 & 19 & 6 & 13 & 16 & 16 & 16 & 27 \\ 29 & 19 & 8 & 14 & 20 & 17 & 16 & 18 \\ 7 & 6 & 19 & 24 & 23 & 31 & 33 & 25 \\ 2 & 12 & 29 & 24 & 25 & 40 & 28 & 37 \\ 6 & 21 & 30 & 26 & 23 & 26 & 28 & 48 \\ 9 & 24 & 37 & 23 & 29 & 29 & 31 & 31 \\ 13 & 20 & 37 & 50 & 49 & 39 & 34 & 25 \\ 11 & 19 & 36 & 58 & 50 & 33 & 25 & 11 \end{pmatrix}.$$

$$\text{dft} \begin{pmatrix} 65 \\ 58 \\ 103 \\ 135 \\ 78 \\ 125 \\ 101 \\ 96 \\ 79 \\ 46 \\ 51 \\ 93 \\ 142 \\ 132 \\ 109 \\ 93 \\ 149 \\ 140 \\ 111 \\ 113 \\ 134 \\ 128 \\ 107 \\ 101 \\ 77 \\ 70 \\ 41 \\ 56 \\ 53 \\ 64 \\ 83 \\ 48 \\ \downarrow \end{pmatrix} \begin{pmatrix} \downarrow \\ 68 \\ 59 \\ 40 \\ 57 \\ 41 \\ 30 \\ 21 \\ 29 \\ 26 \\ 14 \\ 21 \\ 32 \\ 64 \\ 40 \\ 29 \\ 35 \\ 94 \\ 96 \\ 93 \\ 93 \\ 90 \\ 67 \\ 48 \\ 77 \\ 72 \\ 82 \\ 51 \\ 62 \\ 42 \\ 72 \\ 58 \\ 46 \end{pmatrix} = \begin{pmatrix} 74 \\ 7 + 14i \\ 7 - 14i \\ -8 - 4i \\ -8 + 4i \\ -1 + i \\ -1 - i \\ 5 + 7i \\ 5 - 7i \\ -2 + 2i \\ -2 - 2i \\ -1 + 2i \\ -1 - 2i \\ -5 + 3i \\ -5 - 3i \\ -3 \\ -3 \\ 2 - i \\ 2 + i \\ 1 - 3i \\ 1 + 3i \\ 0 \\ 0 \\ -1 + 3i \\ -1 - 3i \\ -2 + i \\ -2 - i \\ -4 - 2i \\ -4 + 2i \\ 0 \\ 0 \\ 3 + i \\ \downarrow \end{pmatrix} \begin{pmatrix} \downarrow \\ 3 - i \\ -1 \\ -1 \\ -2 - i \\ -2 + i \\ i \\ 1 + i \\ 1 - i \\ -i \\ i \\ 1 \\ 1 \\ 2 - i \\ 2 + i \\ 2 + i \\ 2 - i \\ 1 \\ 1 \\ 2 + i \\ 2 - i \\ 1 \\ 1 \\ 2 + 2i \\ 2 - 2i \\ 0 \\ 0 \\ -2 - i \\ -2 + i \\ -1 \\ -1 \\ -1 \end{pmatrix} .$$

$r = 1$:

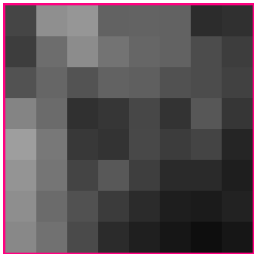


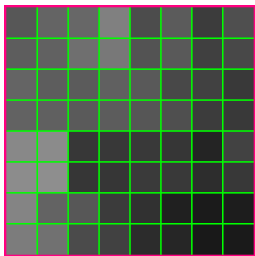
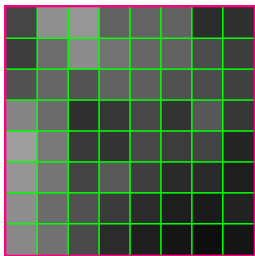


Helligkeitswerte =

$$\begin{pmatrix} 66 & 130 & 143 & 90 & 90 & 83 & 50 & 43 \\ 70 & 102 & 128 & 112 & 91 & 91 & 65 & 65 \\ 93 & 90 & 79 & 92 & 84 & 68 & 81 & 66 \\ 123 & 99 & 39 & 52 & 70 & 44 & 82 & 58 \\ 146 & 124 & 50 & 55 & 58 & 60 & 70 & 36 \\ 136 & 115 & 52 & 74 & 53 & 47 & 41 & 29 \\ 133 & 95 & 75 & 60 & 34 & 32 & 29 & 30 \\ 130 & 114 & 71 & 35 & 44 & 23 & 20 & 29 \end{pmatrix}$$

$r = 5$:





Helligkeitswerte =

$$\begin{pmatrix} 82 & 95 & 97 & 121 & 72 & 86 & 57 & 75 \\ 88 & 92 & 105 & 113 & 79 & 84 & 61 & 68 \\ 95 & 88 & 86 & 91 & 84 & 68 & 62 & 54 \\ 93 & 91 & 85 & 87 & 81 & 75 & 57 & 54 \\ 128 & 131 & 52 & 53 & 54 & 51 & 34 & 63 \\ 132 & 134 & 51 & 51 & 55 & 54 & 43 & 53 \\ 125 & 94 & 82 & 56 & 47 & 31 & 26 & 28 \\ 117 & 106 & 71 & 62 & 42 & 36 & 24 & 25 \end{pmatrix}$$