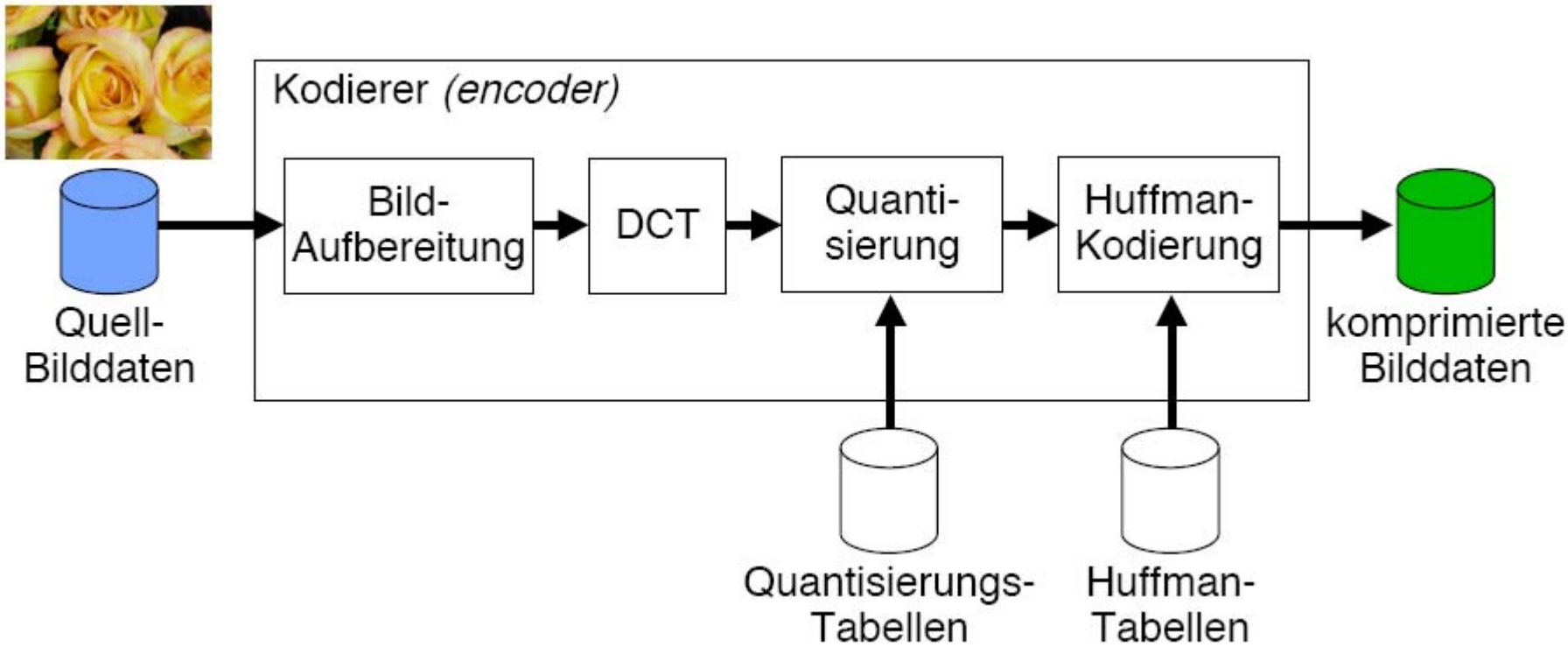
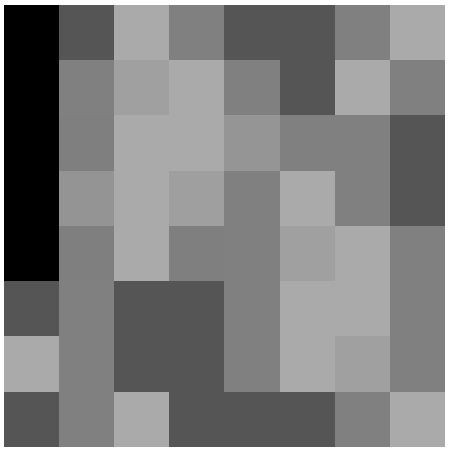
Digitale Medien

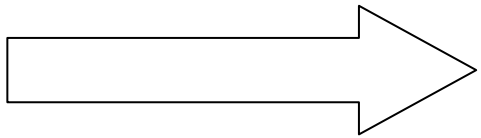
Übung

JPEG-Verfahren

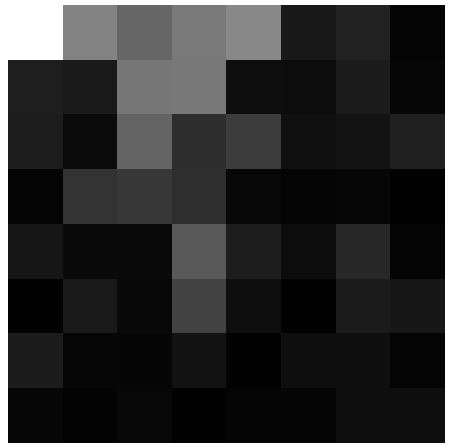


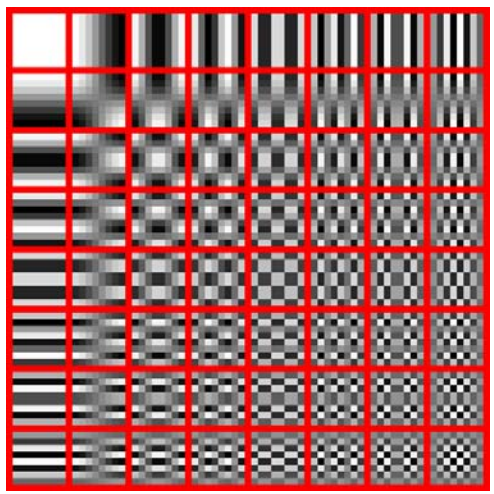
Konvertierung von 8x8 Bildblöcken in den Frequenzraum

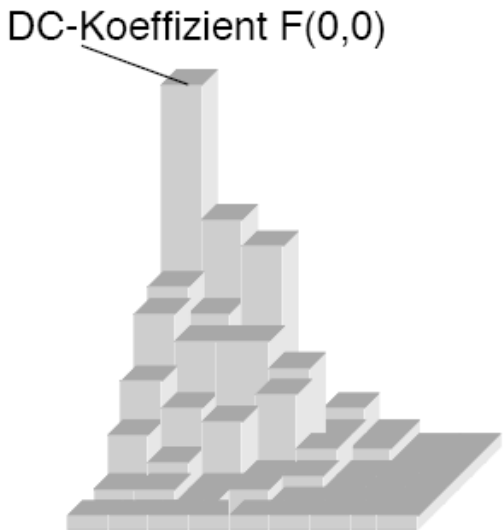




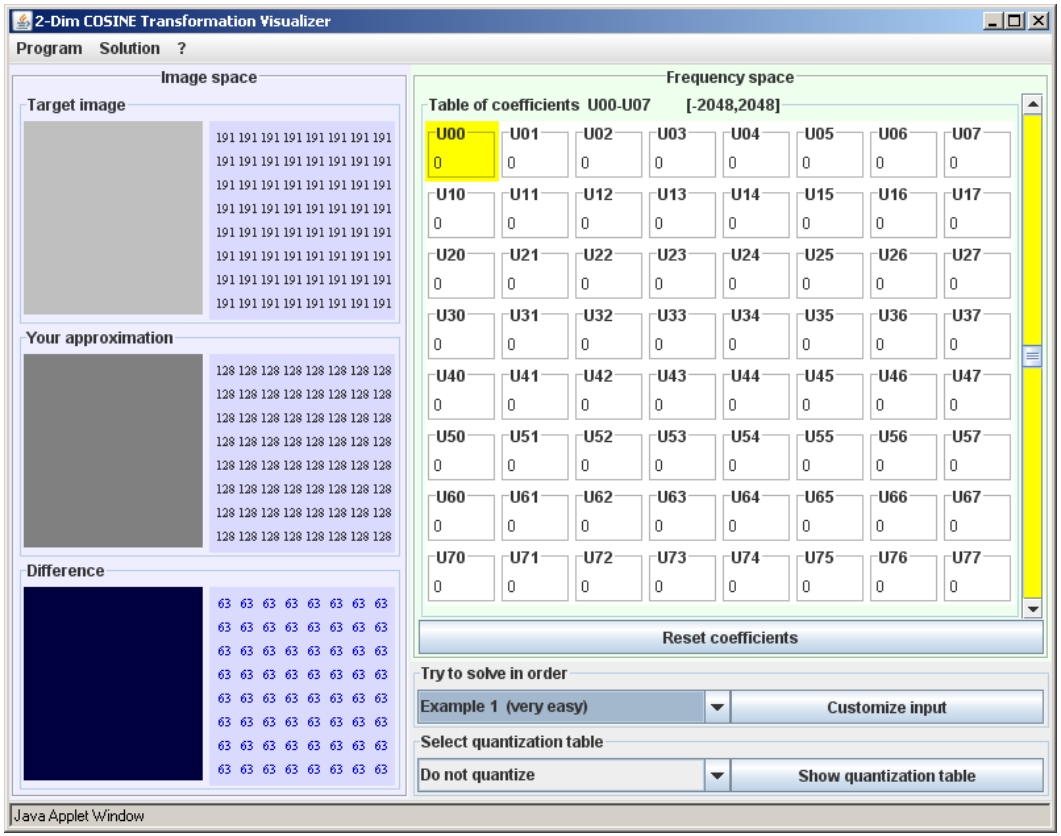
Diskrete
Cosinus
Transformation



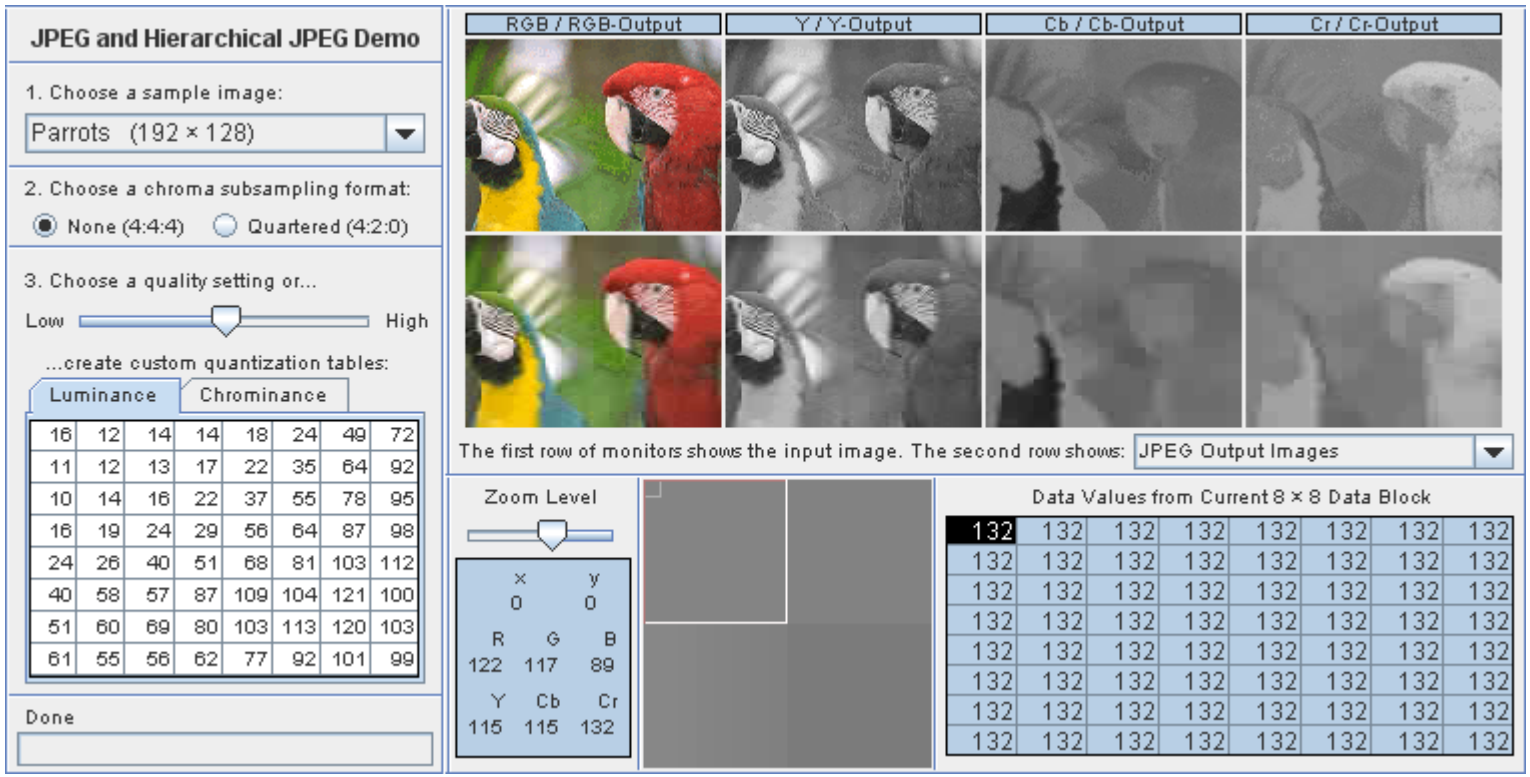




http://www-mm.informatik.uni-mannheim.de/
veranstaltungen/animation/multimedia/2d_dct/

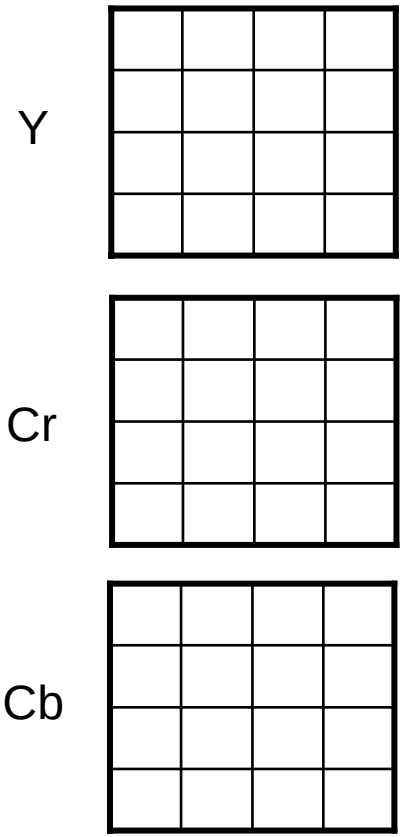


http://www.sfu.ca/~cjenning/toybox/hjpeg/



– Beide Chroma-Kanäle immer gleich abgetastet
– x: Anzahl der Luma-Samples, Vielfaches der NTSC-Abtastfrequenz
  3.570 MHz; in der Regel „4“
– y: Anzahl der Cr/Cb-Chroma-Samples, horizontal
– z: Falls z=y: kein vertikales Subsampling der Chroma-Kanäle
  Falls z=0: vertikales Chroma-Subsampling 2:1

"4:4:4"



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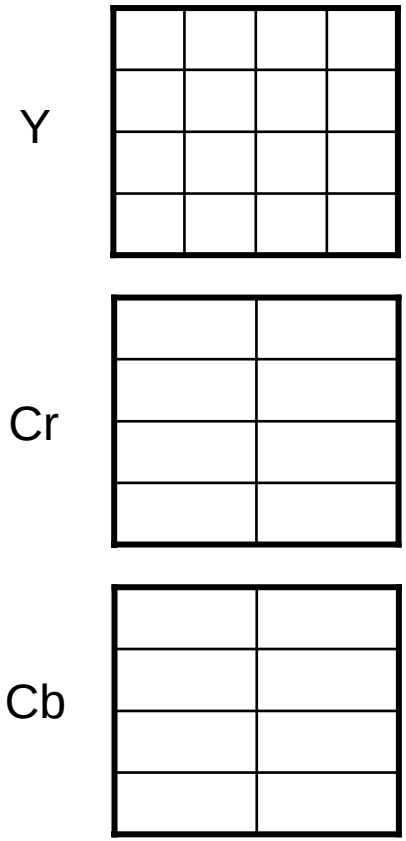
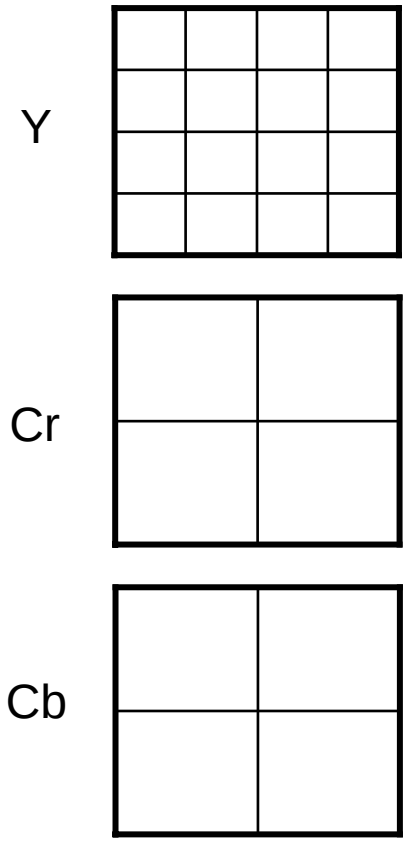
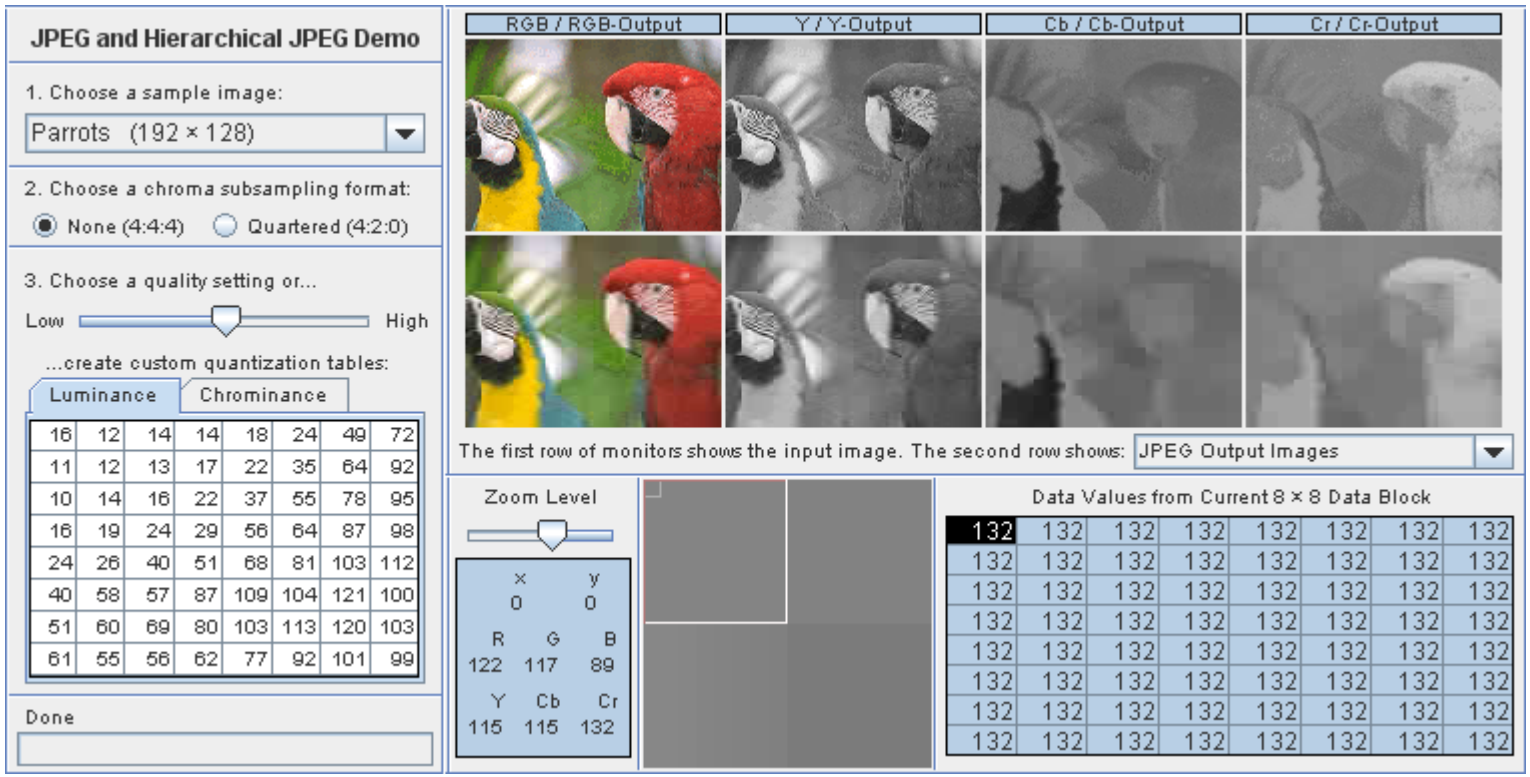


"4:2:0"



http://www.sfu.ca/~cjenning/toybox/hjpeg/



Beispieldateien:
`/home/proj/mi_dm/img/newyork.jpg`

`/home/proj/mi_dm/img/winter.jpg`