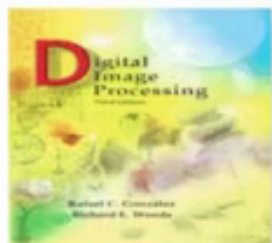


Why is Compression Needed?

$$1000 \times 1000 \times 24 \times 30 \times 60 \times 120 =$$

very large number





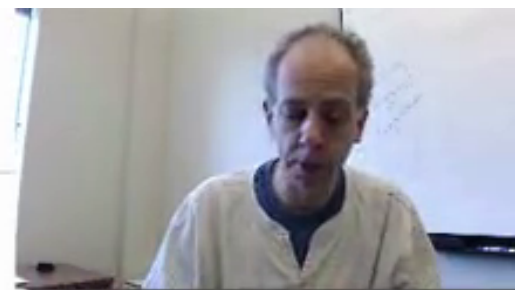
Digital Image Processing, 3rd ed.

Gonzalez & Woods

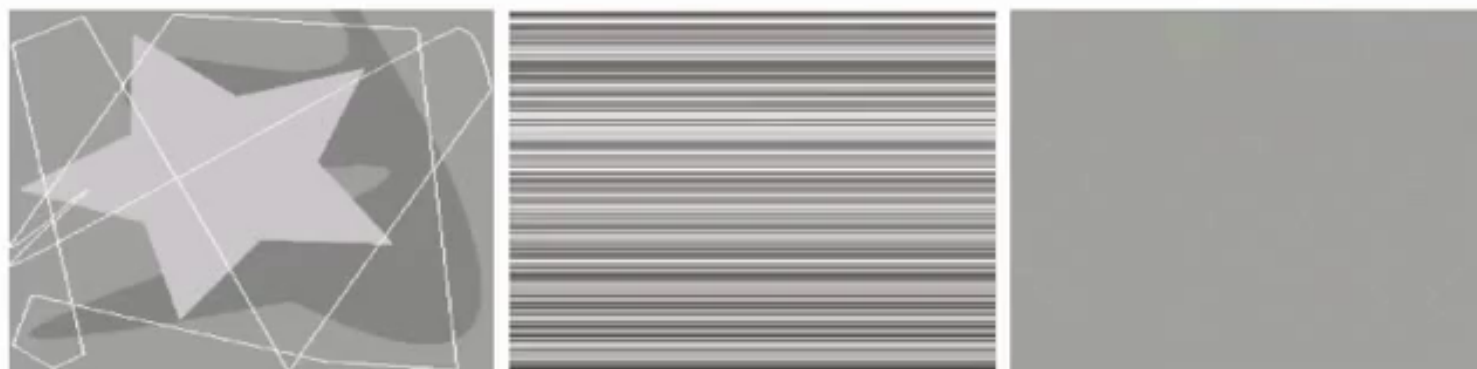
www.ImageProcessingPlace.com

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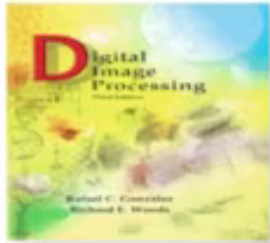


The reasons we can compress:



a b c

FIGURE 8.1 Computer generated $256 \times 256 \times 8$ bit images with (a) coding redundancy, (b) spatial redundancy, and (c) irrelevant information. (Each was designed to demonstrate one principal redundancy but may exhibit others as well.)



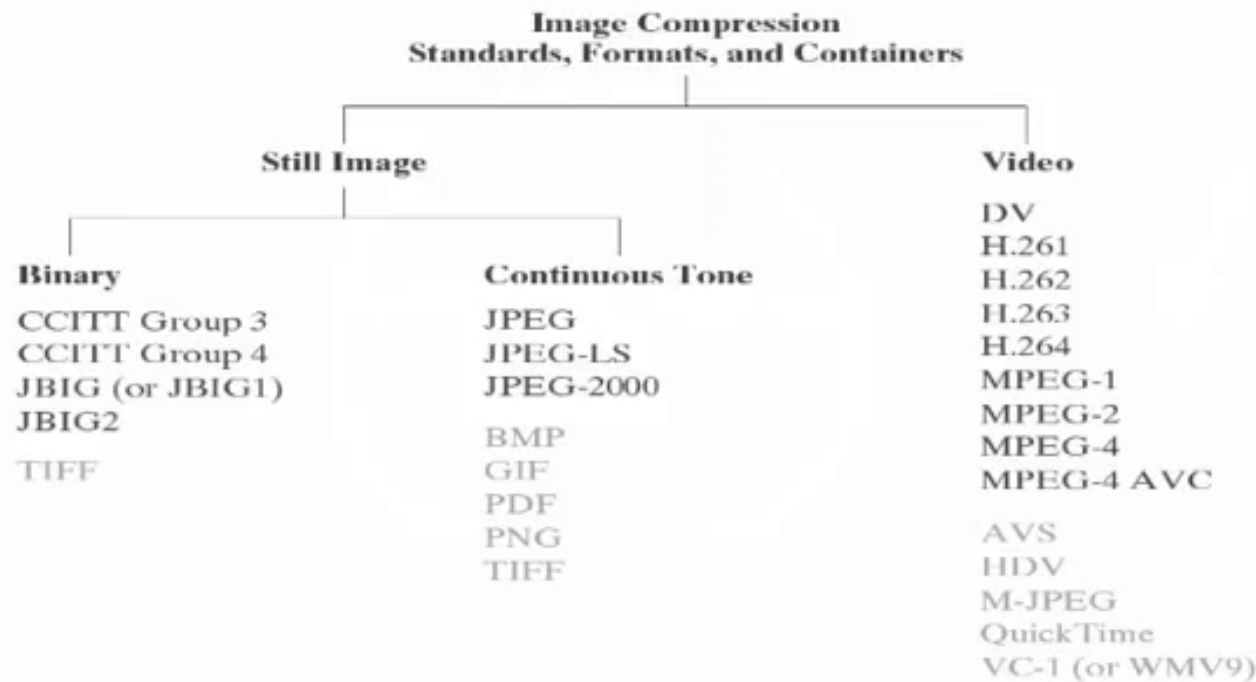
Digital Image Processing, 3rd ed.

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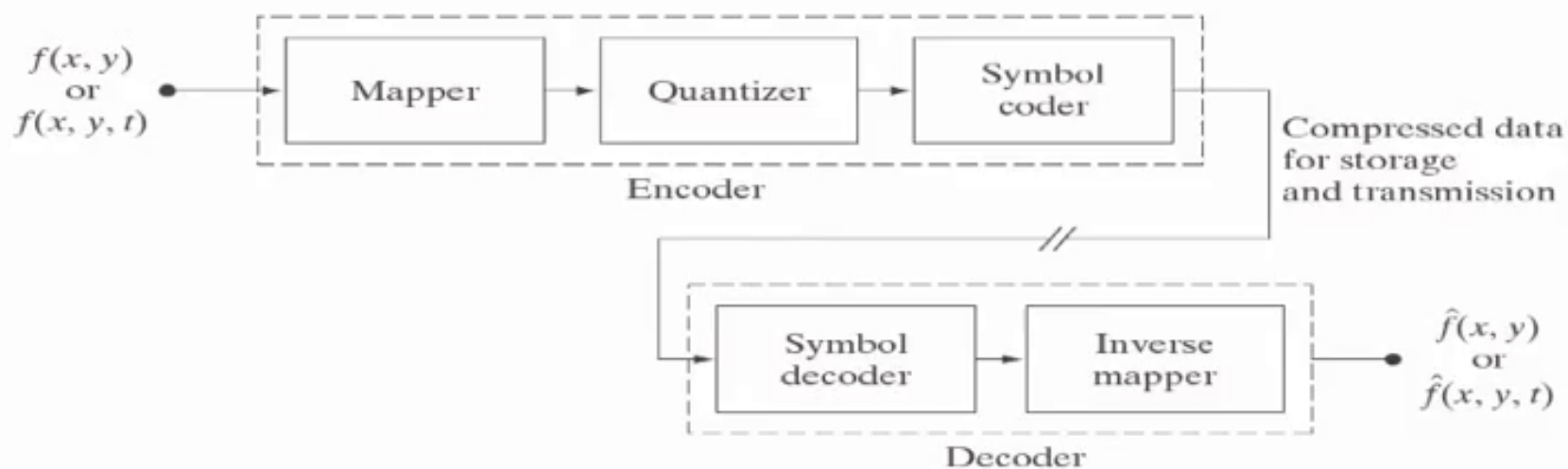
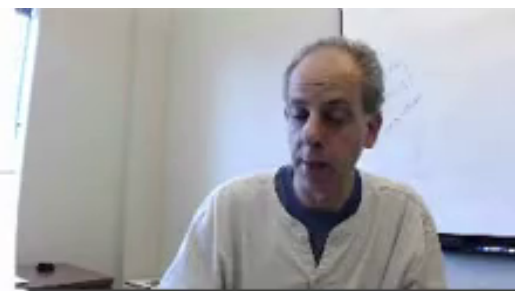
Digital Image Processing, 3rd ed.

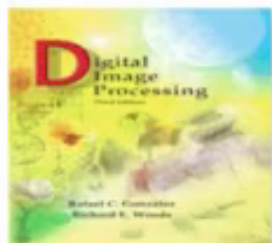
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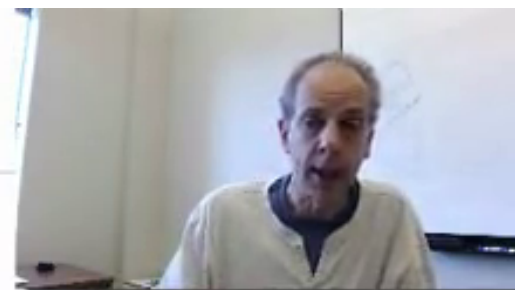
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JPEG

