steganography
<table>
<thead>
<tr>
<th></th>
<th>red</th>
<th>green</th>
<th>blue</th>
<th>pixel[1]</th>
<th>pixel with character hidden</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 1 0</td>
<td>1 7 9</td>
<td>1 4 8</td>
<td>2 1 0</td>
<td>1 7 7</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1 4 7</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>
process

input

output

algorithms

interactions
01001010

74

J
a small piece of sound

the amount of redness in a single dot in an image

the amount of light in a single dot of a single frame of a video

the number of cents in a bank account
<A HREF="session02.html">last session</A>

last session
public Picture reduce()
{
    Picture p = new Picture( this.getWidth()/2,
            this.getHeight()/2 );
    for (int x = 0; x < this.getWidth()/2; x++)
    {
        for (int y = 0; y < this.getHeight()/2; y++)
        {
            Pixel sourcePixel = this.getPixel( x*2, y*2 );
            p.getPixel(x,y).setColor( sourcePixel.getColor() );
        }
    }
    return p;
}
"knowledge how"

versus

"knowledge that"